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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:	)	
	)	R 2025-021
STANDARDS FOR THE PLACEMENT	)	(Rulemaking – Land)
OF LIMESTONE RESIDUAL MATERIALS:	)	
PROPOSED NEW 35 Ill. ADM. CODE 706	)	

NOTICE OF FILING

TO: Mr. Don A. Brown,
Clerk of the Board
Illinois Pollution Control Board
60 E Van Buren Street, Suite 630
Chicago, Illinois 60605

Daniel Pauley
Hearing Officer
Illinois Pollution Control Board
60 E Van Buren Street, Suite 630
Chicago, Illinois 60605

VIA ELECTRONIC MAIL)

(SEE PERSONS ON ATTACHED SERVICE LIST)

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Illinois Pollution Control Board the **MOTION FOR WAIVER OF REQUIREMENTS** and **THE CITY OF AURORA'S AND HOLCIM'S INITIAL POST- HEARING COMMENTS** on behalf of the City of Aurora and Holcim (US) Inc., Holcim – ACM Management, Inc., and their respective subsidiaries, copies of which are hereby served upon you.

Dated: May 9, 2025

Respectfully submitted,
HOLCIM US, NORTH CENTRAL REGION

By: /s/ Alec Messina
One of Holcim's Attorneys

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Respectfully submitted,
CITY OF AURORA

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CERTIFICATE OF SERVICE

I, the undersigned, on oath state the following: That I have caused to be served the attached: **MOTION FOR WAIVER OF REQUIREMENTS** and **THE CITY OF AURORA'S AND HOLCIM'S INITIAL POST- HEARING COMMENTS,** on May 9, 2025 to the following:

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That my email address is Alec.Messina@heplerbroom.com

That the number of pages in the email transmission is 1,545.

That this email transmission took place before 4:30 p.m. on May 9, 2025.

Date: May 9, 2025

/s/ *Alec Messina*
Alec Messina

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:	)	
	)	
STANDARDS FOR THE PLACEMENT	)	R 25-21
OF LIMESTONE RESIDUAL MATERIALS:	)	(Rulemaking – Land)
PROPOSED NEW 35 Ill. ADM. CODE 706	)	

MOTION FOR WAIVER OF REQUIREMENTS

The City of Aurora ("City") and Holcim (US) Inc., Holcim – ACM Management, Inc., and their respective subsidiaries ("Holcim") (collectively, "Proponents"), by and through their undersigned attorneys and pursuant to 35 Ill. Adm. Code 101.500 and 101.502(a), hereby moves the Hearing Officer of the Illinois Pollution Control Board ("Board") to waive the requirement that the City's and Holcim's Initial Post-Hearing Comments not exceed 50 pages in length under 35 Ill. Adm. Code 101.302(k). In support of this Motion, Proponents state as follows:

1. On April 17, 2025, the First Hearing was held in this rulemaking.

2. During the First Hearing, Proponents stated that they would respond to a number of pre-filed questions in post-hearing comments filed ahead of the Second Hearing.

3. The Hearing Officer set a deadline of May 9, 2025 for Proponents to file such responses. Transcript of April 17, 2025 First Hearing, PCB R 25-21 at 72:21-23 (Apr. 30, 2025).

4. Section 101.302(k) of the Board's procedural rules states that "[n]o motion, brief in support of a motion, or brief may exceed 50 pages . . . without prior approval of the Board or hearing officer. These limits do not include appendices containing relevant material. . . ." 35 Ill. Adm. Code 101.302(k).

5. Proponents' Initial Post-Hearing Comments filed contemporaneously with this Motion, which includes revised proposed rule language, exceed 50 pages in length.[1]

[1] Proponents attach numerous exhibits of documents to its Initial Post-Hearing Comments, however, appendices that contain relevant material do not count towards the 50 page-limit per Section 101.302(k).

6. To the extent that the Hearing Officer considers Proponents' Initial Post-Hearing Comments to be a "brief," Proponents request that the Hearing Officer waive the page requirement in Section 101.302(k).

WHEREFORE, for the above and foregoing reasons, Proponents respectfully move that the Hearing Officer waive the requirement in 35 Ill. Adm. Code 101.302(k) and allow Proponents to file their Initial Post-Hearing Comments in excess of 50 pages.

Respectfully submitted,
HOLCIM US, NORTH CENTRAL REGION

Dated: May 9, 2025

By: /s/ Alec Messina
One of Holcim's Attorneys

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Respectfully Submitted,
CITY OF AURORA

Dated: May 9, 2025

By: /s/ Dennis G. Walsh
One of its Attorneys

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:	)	
	)	
STANDARDS FOR THE PLACEMENT	)	R 25-21
OF LIMESTONE RESIDUAL MATERIALS:	)	(Rulemaking – Land)
PROPOSED NEW 35 Ill. ADM. CODE 706	)	

THE CITY OF AURORA'S AND HOLCIM'S INITIAL POST-HEARING COMMENTS

The City of Aurora ("City") and Holcim (US) Inc., Holcim – ACM Management, Inc., and their respective subsidiaries ("Holcim") (collectively, "Proponents"), by and through their undersigned attorneys, hereby submit the following Initial Post-Hearing Comments in the above-captioned rulemaking proceeding. Proponents' comments are submitted within 14 days after receipt of the First Hearing transcript pursuant to 35 Ill. Adm. Code 102.108(b) and in accordance with the deadline of May 9, 2025 set by the Hearing Officer at the First Hearing. Transcript of April 17, 2025 First Hearing, PCB R 25-21 at 72:21-23 (Apr. 30, 2025) (hereinafter "First Hearing Transcript").

I. INTRODUCTION

These post-hearing comments include a number of items, including questions from the First Hearing that were answered but necessitated additional follow-up, questions that were not answered but reserved for lengthier treatment in these post-hearing comments, and documents that were requested by those parties which participated in the First Hearing. They are included here, organized by questioner and in numerical order. In addition to this information, Proponents take this opportunity to clarify several overarching issues.

First, as detailed in the Statement of Reasons, this rulemaking is the culmination of years of effort to establish an appropriate regulatory framework for the management of lime residual material ("LRM"). Multiple approaches were explored over time. The legislative framework

underpinning this proposal emerged through extensive consultation with the Illinois Environmental Protection Agency ("Illinois EPA" or "Agency"), multiple hearings before the General Assembly, and numerous meetings with Illinois EPA leadership during both the legislative and post-enactment regulatory development phases. Illinois EPA has had a substantially complete version of the proposed rule language that is currently before the Illinois Pollution Control Board ("Board") since the end of July 2024. Since then, Proponents have made several efforts to engage the Agency in discussions regarding specific concerns and proposed regulatory language prior to submitting the proposal to the Board. Proponents understand the need for thorough review, both by the Agency and the Board, before adopting any proposal. To that end, Proponents will continue to provide any additional information the Board deems necessary in order to ensure that it has all relevant information to make a decision. At the same time, the City and Holcim respectfully urge the Board to proceed with this rulemaking expeditiously.

Second, Proponents wish to clarify a recurring point of terminology that arose during the First Hearing. Several participants—including Proponents' witnesses—used the term "disposal" and "waste" in reference to the handling of LRM. Proponents note that such usage was colloquial and referred generally to the relocation or placement of LRM, not to "disposal" or "waste" as those terms are defined under the Illinois Environmental Protection Act ("Act") or the Board's solid waste regulations. Indeed, Section 22.63 of the Act intentionally avoids the term "disposal," using instead the terms "placement" or "placed." 415 ILCS 5/22.63. Section 22.63 of the Act also does not utilize the term "waste" to characterize LRM. *See id.* Accordingly, any references to "disposal" or "waste" during the First Hearing or other portions of the record previously filed should be understood in that context and not be construed as an assertion that

LRM constitutes "waste" or that permanent placement of LRM in an underground mine constitutes "disposal" under applicable regulatory definitions.

II. RESPONSES TO FOLLOW-UP QUESTIONS AT FIRST HEARING

A. AGO Pre-filed Question #1 to Randi Wille

At the First Hearing, the Board asked a follow-up question as to whether Holcim has tested the rock material within the mine to determine its hydraulic conductivity. Question of A. Rao, First Hearing Transcript, PCB R 25-21, 26:1-3 (April 17, 2025). Holcim is aware that prior testing was performed. For example, Agapito Associates, Inc. completed an assessment and the February 2013 report was attached to the City's underground injection control ("UIC") permit application. *See* UIC Class V Permit Record, Volume 1, PCB R 25-21, at. 0273-0367 (Apr. 29, 2025). Note there are collection sumps within the decline ramp to collect seepage water from the rock above the underground mine. There are no seepage controls in the proposed placement areas because the areas are dry; however, any potential seepage can be routed to the sumps then discharged via the mine's NPDES Permit.

B. Board's Pre-filed General Question #2(b)

The Board asked a follow-up question regarding whether there was a reason for proposing a statewide rule instead of a site-specific rule applicable to the City and Holcim. Question of A. Rao, First Hearing Transcript at 49:18-20. Section 22.63 of the Act is generally applicable. Section 22.63 does not specify whether the rules adopted by the Board must be rules of general applicability or a site-specific rule. The City and Holcim proposed a rule of general applicability so that other municipalities may take advantage of this provision if they meet the criteria in Section 22.63.

C. Board's Pre-filed General Question #3(a)

At the First Hearing, the Board asked a follow-up question concerning the legislative background of Section 22.63 of the Act and whether it was intended to apply to other mines. Question of A. Rao, First Hearing Transcript at 51:8-12. Proponents would first note that the plain language of the Act clearly applies to all underground limestone mines that satisfy the specified statutory criteria. With that said, while both the City and Holcim actively participated in the legislative process, neither recalls any specific discussions addressing this particular issue. Proponents are aware, however, that other municipalities are monitoring this proceeding before the Board.

D. Board's Pre-filed Question #14 to Randi Wille

At the First Hearing, there appeared to be some confusion among the participants regarding the use of the term "room" and whether it was intended to be used interchangeably with the use of the term "facility" as set forth in the proposal. *See, e.g.,* Question of N. San Diego, First Hearing Transcript at 61:1-2. Proponents wish to clarify that the term "room" is used in the context of a "room and pillar" mining system, referring to the excavated areas created between structural pillars left in place to support the roof. "Facility" is defined in proposed Section 706.110 as "the location where any placement of LRM for permanent storage occurs (including land or appurtenances thereto) that is subject to this Part." As such, the term "facility," as used in the Proposal, may encompass dozens or even hundreds of such "rooms" where the LRM may be permanently placed.

E. IEPA's Pre-filed Question #5

The Agency asked a follow-up question concerning what regulations are applicable to ensure mine integrity and safety and whether those are in the Illinois Environmental Protection

Act. Question of N. San Diego, First Hearing Transcript at 34:2-5, 12-14. The Mine Safety and Health Administration ("MSHA") and Illinois Department of Natural Resources ("IDNR") regulations ensure that reasonable mining practices are being followed. While the mining operation would continue simultaneously with the placement of LRM, MSHA and IDNR regulations would continue to regulate the mining operations. The MSHA and IDNR requirements are not within the Act.

F. IEPA's Pre-filed Question #10

Illinois IEPA asked a follow-up question regarding whether Proponents could provide specifics, such as locations and numbers, of the wells that the City uses for source water. Question of N. San Diego, First Hearing Transcript at 39:3-5. Proponents hereby attach as Exhibit 1 a list of the wells, which includes the total number of wells and their locations.

G. IEPA's Pre-filed Questions #15 and #16

The Board asked a follow-up question requesting the amount in dry tons of how much LRM the City generates each year and how much LRM the City plans to place in the mine each year. *See* Question of A. Tin, First Hearing Transcript 41:6-7. Attached hereto is Exhibit 2, which contains the semi-annual reports submitted to Illinois EPA for 2023 and 2024 that show dry tonnage of the LRM.

H. IEPA's Pre-filed Question #17

The Board asked a follow-up question regarding the terminology of what is to occur with the LRM. Transcript at 42:8-13. While this issue is addressed in the Introduction above, Proponents reiterate that Section 22.63 of the Act specifically uses the terms "placement" and "placed" in reference to the management of LRM. These terms were intentionally selected to

reflect the statutory framework and do not necessarily equate to “storage” or “disposal” as those terms may be used in other regulatory contexts.

Illinois EPA asked a follow-up question concerning the stability benefit of utilizing LRM to fill the mine cavities. Question of N. San Diego, First Hearing Transcript at 46:21-23. The permanent placement of LRM within the underground limestone mine is expected to enhance the structural stability of the mined-out rooms and may help reduce the risk or limit the extent of any future subsidence. As discussed at the First Hearing, the LRM will be compacted during placement, with each subsequent layer compacting the layer beneath it. Testimony of R. Wille, First Hearing Transcript at 44:1-7. The dewatered LRM is a cohesive compactible material that fills voids and creates resistance against movement. Filling the rooms to the greatest extent practicable provides an additional safeguard by reducing the potential for roof collapse or displacement.

In the unlikely event of a pillar failure or localized roof collapse, the presence of compacted LRM—particularly in lower rooms—would help absorb and distribute the impact, thereby limiting the extent of structural movement. It is important to note that mining in the underground mine has been ongoing for approximately 30 years without any evidence of subsidence. Nevertheless, permanent placement of LRM will serve as an additional structural support mechanism and would likely mitigate the effects of any subsidence, should it occur in the future.

III. REQUESTS FOR DOCUMENTS

At the First Hearing, Proponents offered into the record as an exhibit a sample of LRM. The sample was marked as Hearing Exhibit 4. Proponents are hereby including a picture of such sample, which is attached hereto as Exhibit 3.

A. AGO Pre-filed Questions #2 and #3 to Robert Leible

In response to pre-filed questions #2 and #3 of the Attorney General's Office ("AGO"), Proponents stated that they would submit analytical reports that provide more detail on the composition of the LRM and recent TCLP testing results. Attached hereto are Exhibits 4 and 5 that contain TCLP testing results from 2022 and 2024. Additionally, attached hereto is Exhibit 6, which provides results from additional analytical and groundwater testing performed in 2024.

B. AGO Pre-filed Question #4(b) to Robert Leible

In response to this question, Proponents stated that they would provide the current compliance levels. The compliance levels for TCLP testing are hereby attached as Exhibit 7.

C. Board's Pre-filed General Question #1

The Board requested a map depicting the Conco underground mine site and the extent of the mine located within the City of Aurora limits. The Board also requested that the map identify the specific location where LRM is to be placed under the proposed rules. Please see Exhibit 8 attached hereto. The first map contained in Exhibit 8 is a map of the underground mine site that depicts the specific location where LRM is to be placed under the proposed rules.

D. Board's Pre-filed Question #10 to Robert Leible

The Board requested semi-annual reports submitted to Illinois EPA that show quantities of LRM either land applied or landfilled. The semi-annual reports for the most recent two years are attached hereto as Exhibit 2.

E. Board's Pre-filed Question #11 to Robert Leible

The Board requested reports, for the most recent two years, that are submitted to Illinois EPA and the Illinois Emergency Management Agency ("IEMA") that show all data for each individual land application site. The reports for the most recent two years submitted to Illinois

EPA are attached hereto as Exhibit 9 and the reports submitted to IEMA are attached hereto as Exhibit 10.

F. Board's Pre-filed Question #13(a) to Robert Leible

The Board requested the most recent TCLP testing results as well as a groundwater standard evaluation. See Exhibit 5 referenced above for the results of the 2024 TCLP testing and Exhibit 6 for results of the 2024 groundwater evaluation.

G. Board's Pre-filed Question #13(b) to Robert Leible

The Board requested results of testing of LRM for any additional contaminants other than TCLP constituents. See Exhibit 6 referenced above for results of the 2024 groundwater evaluation as well as Exhibit 11 attached hereto, which provides the results of the PFAS testing performed in 2022.

H. Board's Pre-filed Question #15(d) to Randi Wille

In response to this question at the First Hearing, Holcim offered to produce a copy of the Conco Mine's National Pollutant Discharge Elimination System ("NPDES") Permit. The NPDES Permit is attached hereto as Exhibit 12.

I. Board's Pre-filed Question #16(b) to Randi Wille

The Board requested any engineering plans or drawings that show the designated haul route, location of drop shaft, the mined rooms designated for placement of LRM, any barrier wall dividers, and any below-ground conveyance to the repository. See Exhibit 8, referenced above, for maps of the underground mine site. The first map in Exhibit 8 depicts the mined rooms designated for placement of LRM. The second map in Exhibit 8 is an early conceptual map that shows the delivery route within the underground mine that will be used for loaders or loaders with haul trucks to convey the LRM. The conceptual map includes a potential location for a

conveyor system to convey the LRM if Holcim decides to install a conveyer system in the future. The early conceptual map also depicts locations of berms with posted signage; however, the berms would instead be the barrier wall dividers. Attached hereto as Exhibit 13 are maps that depict the designated surface delivery route and location of the drop shaft.

J. Board's Pre-filed Question #17(b) to Randi Wille

The Board requested a map showing the potential surface delivery route. The first map in Exhibit 13, referenced above, depicts the delivery route between the water treatment plant and the drop shaft, which is approximately 1.5 miles along Illinois Route 25.

K. IEPA's Pre-filed Question #6(a)

Illinois EPA asked whether the lime sludge had been tested since the testing referenced in the permit application and what testing had been conducted prior to 2012. As explained in the First Hearing, testing of the LRM was not required prior to 2012. Testimony of B. Leible, First Hearing Transcript at 35:8-9. The City began land applying LRM in approximately 2012 or 2013 pursuant to the land application permit issued by Illinois EPA. *Id.* At 35:10-14. See Exhibits 4 and 5, which contain the results for the TCLP testing performed in 2022 and 2024, respectfully. See Exhibit 6, which contains the results for additional analytical testing and groundwater evaluation performed in 2024. See also Exhibit 11 attached hereto which provides the results of PFAS testing performed in 2022.

L. IEPA's Pre-filed Question #6(b)

In response to this question, Proponents proposed to submit copies of recent LRM testing which show the parameters tested, including testing for PFAS. Please see exhibits referenced in response to Illinois EPA's Question #6(a) above.

M. IEPA's Pre-filed Question #6(c)

In response to this question, Proponents proposed to provide copies of the results of the testing for the dried material in our post-hearing comments. Please see exhibits referenced in response to Illinois EPA's Question #6(a) above.

N. IEPA's Pre-filed Question #7(e)

In response to this question, Proponents proposed to provide copies of the results of recent testing of the LRM. Please see exhibits referenced in response to Illinois EPA's Question #6(a) above.

O. IEPA's Pre-filed Question 12(b)

As explained in the First Hearing, the City's raw source water (Fox River and wells) is not required to be tested. The City does perform testing of the raw source water as a matter of good operating practice to be aware of any changes or issues with source waters on a quarterly basis. Proponents are attaching two spreadsheets as Exhibits 14 and 15 that contain the results of the quarterly testing of the raw water performed in 2023 and 2024. The well data is a result of a composite of all wells operating at the time of sampling. The City does not test individual wells because the wells that are in service blend together and then blend with the Fox River water prior to treatment to form a blended source. While Proponents are providing the data to be responsive to Illinois EPA's request, it is important to note that the makeup of the LRM has been consistent over the years and is suitable for placement in an underground limestone mine.

IV. RESPONSES TO OUTSTANDING PRE-FILED QUESTIONS

At the First Hearing, Proponents stated that they would respond to a number of pre-filed questions, mostly legal in nature, in post-hearing comments filed ahead of the Second Hearing. Accordingly, responses to the outstanding questions from Illinois EPA's pre-filed questions are

addressed in Section IV(A) below. Responses to outstanding pre-filed questions from the Board are addressed in Section IV(B) below. In response to several of the Board's pre-filed questions concerning the proposed rule language, Proponents propose revisions to the rule language. A redline of the proposed rule language, showing proposed revisions in red underline and strikethrough, is attached hereto. Simultaneously with this filing, Proponents are also submitting a Word version of the updated proposed rule language to the Board and to the participants on the service list.

A. Responses to Outstanding Pre-filed Questions from Illinois EPA

1. **The proposed regulations use the term "authorization" to mean "the approval by the Agency for the permanent placement of [lime residual materials] LRM in the facility." Do the proponents have any objections to replacing the term "authorization" with the term "permit"? If so, please explain why.**

The Proponents do not support replacing the term "authorization" with "permit" in the proposed regulations. The term "authorization" was deliberately chosen to reflect the unique and site-specific nature of LRM placement under Section 22.63 of the Act. Unlike a traditional permit—which typically involves a more comprehensive and standardized regulatory framework—an "authorization" under the proposed rule is intended to provide a streamlined, facility-specific approval for permanent LRM placement in underground mines that meet the statutory criteria.

Using the term "permit" could create confusion by implying that a broader or more conventional permitting regime under Act applies, which is not the case here. The use of "authorization" better aligns with the legislative intent and the tailored nature of the statutory provision governing LRM placement.

2. In the Statement of Reasons and the pre-filed testimonies of Mr. Alex Alexandrou and Mr. Robert Leible for the City, the proposed regulations are characterized as an alternative means for the disposal of LRM. Section 22.63 of the Environmental Protection Act ("Act," 415 ILCS 5/22.63) requires that the proposed "rules shall be consistent with the Board's Underground Injection Control [UIC] regulations for Class V well, provided that the rules shall allow for the limestone residual materials to be delivered to and placed in the mine by means other than an injection well."

Given that Class V UIC rules are "disposal" regulations, please explain how the proposed rules are consistent with existing Board regulations applicable to Class V UIC wells (i.e., consistent with relevant regulations in Title 35 Ill. Adm. Code Parts 702, 704, 705, and 730).

As noted above, Section 22.63 of the Act explicitly avoids the term "disposal" and instead uses the terms "placement" and "placed" to describe the management of LRM. Proponents maintain that the placement of LRM as contemplated by the proposed rules, is not equivalent to "disposal" within the meaning of the Board's regulations, particularly given the focus on long-term mine stability and material integration within an engineered underground environment.

Nonetheless, Proponents recognize that certain existing Board regulations—whether found within the Class V UIC rules or the rules governing beneficial reuse—contain valuable standards related to environmental protection, monitoring, and recordkeeping. These provisions served as important reference points in drafting the proposed rules, which incorporate comparable safeguards to ensure the responsible management of LRM.

Proponents also emphasize that the statutory directive in Section 22.63 of the Act that the rules be "consistent with" the Board's UIC regulations for Class V wells does not require a one-to-one correspondence with those rules. Rather, "consistent with" should be interpreted to mean substantively aligned or guided by the regulatory principles underlying the UIC framework—particularly those addressing protection of groundwater and structural integrity—

while still allowing for a regulatory approach tailored to the unique characteristics of LRM placement.

Finally, the Agency posed an additional question at hearing regarding whether Proponents are aware of any other states that authorize LRM to be placed in underground mines and, if so, under which regulatory program such placement is authorized. Question of N. San Diego, First Hearing Transcript at 30:20-24. Proponents are not aware of any jurisdictions that have adopted statutes specifically authorizing the placement of LRM in underground limestone mines. Nor are Proponents aware of how other states may currently regulate the long-term management of such material.

3. Please explain the difference between "permanent placement" and "disposal" with respect to how LRM will be managed at/in the portion of the Conco Mine owned by and located in the City ("Mine").

The authorizing legislation, Section 22.63 of the Act, expressly uses the term "placement" rather than "disposal." when describing the authorized management of LRM. Section 22.63 of the Act directs the Board to adopt rules governing the *placement* of LRM. Additionally, Section 22.63 of the Act requires that the rules be consistent with the Board's UIC regulations for Class V wells, provided that the rules shall allow for LRM "to be delivered to and *placed* in the mine" by means other than an injection well. (Emphasis added).

This distinction is intentional and meaningful. "Disposal," as commonly used in regulatory contexts, typically implies the abandonment or discarding of waste without a focus on ongoing structural or environmental integration. In contrast, "permanent placement," as contemplated under Section 22.63 and in the proposed regulations, refers to the controlled, engineered incorporation of LRM within the mined-out areas of the mine. This method of management is designed to support mine stability, minimize environmental risk, and comply

with applicable safeguards—distinguishing it both in purpose and effect from traditional disposal practices. A more detailed explanation of how LRM placement enhances mine stability can be found in Section II(H) above.

5. Section 22.36(a) of the Act prohibits the Agency from "issuing any new permit for the construction or development of any solid waste disposal facility that is proposed to be located above an active or inactive shaft or tunneled mine or within 200 feet of a fault that has had displacement within Holocene time, unless engineering measures have been incorporated into the facility design to ensure that the integrity of the structural components of the facility will not be disrupted by geological processes." For purposes of Section 22.36, "structural components" means liners, leachate collection systems, final covers, run-on and run-off systems, and any other component used in the construction and operation of a solid waste disposal facility that is necessary for protection of human health and the environment." 415 ILCS 5/22.36(b).

Please explain how the proposed rules provide for the incorporation of engineering measures into facility design to ensure that the integrity of the structural components of the facility will not be disrupted by geological processes.

Section 22.36(a) of the Act, referenced in Illinois EPA's question, addresses the siting and design requirements for solid waste disposal facilities located above mines or near geologically sensitive features, such as faults with Holocene displacement. While Section 22.36 is not directly applicable to LRM placement under Section 22.63—given that the Act treats "placement" separately from "disposal"—the proposed rules nonetheless incorporate several engineering safeguards consistent with the protective objectives of Section 22.36.

The proposed rules require site-specific geotechnical evaluations of the mine, including stability assessments of the mined-out areas where LRM is to be placed. These evaluations will address subsidence risk, ground support systems, and long-term structural integrity. In addition, the rules mandate recordkeeping, monitoring, and reporting requirements designed to ensure that placement activities are conducted in a manner that maintains mine stability and protects human health and the environment.

Although traditional "structural components" such as liners or leachate collection systems are not applicable to underground LRM placement, the concept of engineering controls is reflected through the requirement for engineered placement plans, operational controls, and long-term monitoring. These measures serve the same protective purpose as the structural components referenced in Section 22.36(b), by ensuring that geological conditions do not compromise the containment or integrity of the LRM placement areas.

Accordingly, while the statutory framework and terminology differ, the proposed rules incorporate appropriate engineering measures to address and mitigate geologic risks consistent with the underlying public health and environmental protection goals of Section 22.36.

Furthermore, as explained during the First Hearing, the mine itself is already constructed and continues to be operated consistent with engineering measures and practices applicable to mines in order to ensure the integrity of structural components of the mine. Testimony of R. Wille, First Hearing Transcript at 33:6-10. At the hearing, Illinois EPA asked a follow-up question regarding what regulations would apply to ensure the integrity and safety of the mine. Question of N. San Diego, First Hearing Transcript at 34:2-5. As discussed above, MSHA and IDNR regulations ensure that reasonable mining practices are being followed. While the mining operation continues simultaneously with the placement of LRM, MSHA and IDNR regulations would continue to regulate the mining operations. The MSHA and IDNR requirements are not within the Act.

8. Per page 2 of the Statement of Reasons (Section II.a.) and page 2 of Randi Wille's pre-filed testimony (Section III):

> **"...mine stabilization operation for completed portions of the mine, using bottom ash and limestone screening fines. After mining was completed in segments of the site, bottom ash, a Coal Combustion By-Product ("CCB"), was delivered to the site in dump trucks, mixed with limestone screening fines from on-site crushing operations, and then hauled underground by**

> **mining trucks to designated mined-out locations. This mix was first used as a structural fill embankment to facilitate mining activities, but then at full depth added structural support to mitigate the potential for long-term mine subsidence or collapse. To conduct this operation, the facility was classified and regulated by the Agency."**

Please explain how this operation was classified and regulated by the Agency.

Use of bottom ash for structural fill and mine subsidence purposes is authorized as coal combustion by-product ("CCB") via Sections 3.135(a)(8) and 3.135(a)(9) of the Act and subject to the requirements in Section 3.135(a-5) of the Act.

19. The proposed regulations do not include any engineered barriers or protective measures to keep the disposed lime sludge from coming into contact with groundwater. Please explain this omission.

The proposed regulations do not include engineered barriers typically associated with traditional waste disposal facilities because the characteristics of dewatered LRM, combined with the nature of the mine environment and operational safeguards, render such barriers unnecessary.

Once dewatered, LRM transitions from a slurry or semi-fluid material to a dense, cohesive, and compactable solid with significantly reduced permeability. This substantial reduction in free moisture minimizes the potential for migration or dispersion within the mine cavity. The material's inherent alkalinity and binding properties further enhance its structural stability and resistance to movement.

The placement of LRM occurs in a closed, stable limestone mine with naturally low permeability and limited hydrologic connectivity. These geologic conditions function as a passive containment system, reducing the likelihood of contact with groundwater. Furthermore, the operational safeguards and engineering controls proposed by the City of Aurora and Holcim—including site-specific placement protocols, compaction procedures, and

routine monitoring—provide additional assurance that the LRM will remain in place and stable over time.

Based on current geotechnical understanding and best available data, the risk of meaningful migration of dewatered LRM under the proposed framework is extremely low. Accordingly, the absence of artificial engineered barriers reflects a reasoned, site-specific approach consistent with both the material properties and the surrounding geologic context.

20. Proposed Section 706.340(d)(3) and (d)(4) reference potable water supply wells potable water supply well setbacks, respectively, but do not mention community water supply wells. Please comment on whether the following revisions to proposed subsections (d)(3) and (d)(4) are acceptable:

d) An application for authorization must contain a facility location map on the most recent United States Geological Survey (USGS) quadrangle of the area from the 7 1/2 minute series (topographic) that clearly shows the following information:

3) All potable water supply wells and community water supply wells within 1000 meters (3300 feet) of the facility boundaries;

4) All potable water supply well and community water supply well setback zones established pursuant to Sections 14.1, 14.2, and 14.3 of the Act;

The Agency's proposed revisions to Sections 706.340(d)(3) and (d)(4), as reflected in redline below, are acceptable.

Section 706.340 Information Requirements

An application for authorization for placement of LRM must provide the following information to the Agency, using the application form provided by the Agency. The application form shall require:

***

d) An application for authorization must contain a facility location map on the most recent United States Geological Survey (USGS) quadrangle of the area from the 7 ½ minute series (topographic) that clearly shows the following information:

***

3) All potable water supply wells and community water supply wells within 1000 meters (3300 feet) of the facility boundaries;

4) All potable water supply well and community water supply well setback zones established pursuant to Section 14.1, 14.2 or 14.3 of the Act;

B. Responses to Outstanding Pre-filed Questions from the Board

i. *General Questions from the Board*

3. On page 15, SOR states that "only those municipalities seeking to place LRM materials in an authorized mine in that municipality ... would be subject to the regulations contained within the Proposal."

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b. If so, comment on whether the purpose and scope of the proposed rules under Section 706.100 reflect the above intent. If not, propose appropriate revisions to Section 706.100.

As noted at the First Hearing, proposed Section 706.100 states that the rules are intended to implement the requirements of Section 22.63 of the Act. Testimony of R. Wille, First Hearing Transcript at 51:22-24; 52:1. However, the City and Holcim propose the following revisions to Section 706.100 to add additional clarity and alignment with Section 22.63 of the Act:

Section 706.100 Purpose and Scope

a) The regulations in this Part set forth the requirements for the placement of limestone residual materials generated from the treatment of drinking water by a municipal utility in an underground limestone mine located in whole or in part within the municipality that operates the municipal utility. These rules are intended to implement the requirements of Section 22.63 of the Act.

b) This Part sets forth authorization requirements for a facility that receives limestone residual material generated from the treatment of drinking water by a municipal utility ~~a publicly owned drinking water treatment plant~~ and permanently places the limestone residual material in the facility, which must be located in whole or in part within the municipality that operates the municipal utility.

ii. ***Questions from the Board on Proposed Rule Language***

1. **Should Section 706.100(a) specify that the requirements of Part 706 apply only to the placement of LRM in underground limestone mines? If so, please revise the language to reflect the proposed intent. If not, comment on whether the proposed rules apply to placement of LRM in any other setting.**

Please see the City's and Holcim's response to the Board's General Question 3(b) above and the proposed revisions to Section 706.100 therein

2. **Under proposed Section 706.140(a), please identify:**

    a. **All persons who may appeal to the Board "[a]ny final Agency decision on an application for authorization made pursuant to this Part."**

The intent of the proposed provision is to provide appeal rights to the applicant of the authorization (i.e., operator of the facility).

    b. **All persons who may appeal to the Board "any final Agency decision made as to modification or revocation of an issued authorization made pursuant to this Part."**

The intent of the proposed provision is to provide appeal rights to the applicant for the modification (i.e., operator of the facility) or the person who received the authorization that has been revoked (i.e., operator of the facility).

3. **Section 41(a) of the Environmental Protection Act states that review of a final Board decision "shall be afforded directly in the Appellate Court for the District in which the cause of action arose and not in the Circuit Court." 415 ILCS 5/41(a) (2022); *see also* 35 Ill. Adm. Code 101.906(a). Given this statutory language, please explain why proposed Section 706.140(b) refers to "the circuit court" rather than "the appellate court"?**

Inclusion of "circuit court" instead of "appellate court" in proposed Section 706.140(b) was an inadvertent error. See also response to Question 3(a) below.

    a. **Given that Section 41(a) of the Act and Section 101.906(a) of the Board's procedural rules address appeals of final Board decisions, the Board's substantive regulations generally do not include provisions on appeals of final Board decisions. Accordingly, is proposed Section 706.140(b) necessary? If so, why is it necessary?**

Inclusion of proposed Section 706.140(b) is not necessary but was included to reiterate the rights to appeal under Section 41(a) of the Act. The City and Holcim propose to remove Section 706.140(b).

4. **Please clarify whether Section 706.200(a) applies to any placement of LRM or to only permanent placement of LRM. Clarify the rules to reflect the proposed intent.**

Proposed Section 706.200(a) states: "Nothing in this Part prohibits otherwise authorized placement of LRM." The intent of this provision was to clarify that the proposed provisions in Part 706, if adopted, will not impact other lawful means of placement of LRM, namely, land application. The City and Holcim propose the following revision to Section 706.200(a) to reflect the proposed intent:

Section 706.200 Prohibition Against Unauthorized Placement

a) Nothing in this Part prohibits otherwise authorized placement of LRM, including via land application as authorized by a permit pursuant to 35 Ill. Adm. Code 309.208.

5. **Please comment on whether it would be acceptable to the proponents if the phrase "Placement for permanent storage in the facility" in Section 706.200(b) is replaced with "Permanent placement of LRM in a facility" to avoid using the term "storage". See also Section 706.300.**

Yes, the proposed changes to proposed Sections 706.200(b) and 706.300 are acceptable. See revisions below reflecting those changes.

Section 706.200 Prohibition Against Unauthorized Placement

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b) Permanent ~~P~~placement ~~for permanent storage~~ of LRM in ~~the~~ a facility is prohibited unless an authorization has been issued pursuant to this Part.

Section 706.300 Applying for Authorization

Any person that is required to have an authorization for permanent placement ~~for permanent storage~~ of LRM in a facility must complete, sign, and submit an application to the Agency as described in this Subpart.

6. **Proposed Section 706.320 provides that an application for authorization is complete "when the Agency receives an application form and any supplemental information that is completed to its satisfaction." The required contents for the application form are addressed in proposed Section 706.340. Please comment on the merits of the following potential changes to the proposed rule text:**

   a. **Changing the second sentence of proposed Section 706.320 to read: "An application for authorization under this Part is complete when the Agency receives an application form that contains the ~~and any supplemental~~ information required by Section 706.340 ~~that is completed to its satisfaction~~."**

The language in proposed Section 706.320 was modeled on the provision in Section 702.122 in Part 702 (RCRA and UIC Permit Programs), which states:

Section 702.122 Completeness

The Agency must not issue a permit under a program (RCRA or UIC) before receiving a complete application for a permit under that program, except for emergency permits. An application for a permit under a program is complete when the Agency receives an application form and any supplemental information that is completed to its satisfaction. (35 Ill. Adm. Code 705.122). An application for a permit is complete notwithstanding the failure of the owner or operator to submit the exposure information described in 35 Ill. Adm. Code 703.186 (RCRA).

However, the City and Holcim do not object to the Board's suggested revision, provided that the revision also deletes the term "form" as shown below:

Section 706.320 Completeness

The Agency must not issue an authorization under this Part before receiving a complete application for authorization under this Part. An application for authorization under this Part is complete when the Agency receives an application ~~form~~ that contains the~~and any supplemental~~ information required by Section 706.340~~that is completed to its satisfaction~~.

b. Adding a new subsection (i) to proposed Section 706.340:

"i) Any other information requested by the Agency that is relevant to the operation of the facility."

The City and Holcim respectfully oppose the inclusion of the suggested subsection (i) in proposed Section 706.340. The proposed language—"Any other information requested by the Agency that is relevant to the operation of the facility"—would introduce an open-ended and potentially subjective requirement that undermines the purpose of Section 706.340.

Proposed Section 706.340 was intentionally modeled on 35 Ill. Adm. Code 702.123, which does not include a similar catch-all provision. The current structure of Section 706.340 is designed to provide clarity and predictability by identifying with specificity the information that must be submitted as part of an application for authorization. Introducing a vague, discretionary provision would diminish regulatory certainty for applicants and could invite inconsistent application or delay.

For these reasons, the Proponents recommend that the proposed subsection (i) not be added.

7. In Section 706.330, please provide a minimum time in days (30, 60 or 180 days) for submission of an application for authorization before permanent placement of LRM is expected to begin instead of "within a reasonable time".

The City and Holcim respectfully oppose the inclusion of a fixed minimum time period in proposed Section 706.330. The current language—requiring submission "within a reasonable time"—was modeled after 35 Ill. Adm. Code 704.161(b), which similarly does not prescribe a minimum number of days. This flexible standard allows applicants to tailor the timing of their submissions to the specific operational and logistical needs of each facility, while still enabling the Agency to ensure adequate review.

That said, should the Board determine that a specified timeframe is necessary, the City and Holcim would not object to the inclusion of a 30-day minimum submission period prior to the anticipated start of permanent LRM placement. This would provide additional regulatory clarity while still accommodating reasonable project planning and coordination.

8. Section 706.340 requires an application for authorization for placement of LRM to be submitted using the application form provided by the Agency.

a. Please submit any draft application form for authorization prepared by the Agency.

Proposed Section 706.340 was modeled, in part, on Section 702.123. Section 702.123 requires an applicant for a RCRA or UIC Class I, III, or V permit to provide the information required to the Agency using the application form provided by the Agency. To our knowledge, the Agency has not yet prepared a draft of this application form.

b. If a draft form is not available, would it be possible to have a draft form available for Board review before the proposed rules are adopted to second notice?

The City and Holcim believe this question is better directed to the Agency.

c. Also, comment on whether the authorization application form should be included as an appendix to the proposed rules.

The City and Holcim believe that it would be helpful to include the authorization application form as an appendix to the proposed rules.

9. In Section 706.340(a), given the application must be submitted before LRM is placed in the facility, please clarify whether the information refers to the activities that an operator plans to conduct at the facility and not activities that are already being conducted at the facility that require authorization. If necessary, provide appropriate language changes that clarify the intent.

The intent of proposed Section 706.340(a) is to provide information on the activities the operator plans to conduct. The City and Holcim propose the following revision to Section 706.340(a) to clarify that intent:

Section 706.340 Information Requirements

An application for authorization for placement of LRM must provide the following information to the Agency, using the application form provided by the Agency. The application form shall require:

a) The activities to be conducted by the operator that require it to obtain an authorization, including a description of the planned means of conveyance by which the LRM is to be placed underground before being placed in the facility.

10. Please comment on whether the facility map required under Section 706.340(d) should include location of any regulated recharge areas delineated by the Board under Section 17.4 of the Act, and Class III groundwater under 35 Ill. Adm. Code 620 within 1000 meters (3,300 feet) of the facility boundary.

Proponents are not aware of any regulated recharges areas delineated under Section 17.4 of the Act or Class III groundwater areas, as defined in 35 Ill. Adm. Code 620, located within 1000 meters (3,300 feet) of the facility boundary. However, the Illinois EPA is likely better positioned to confirm this information, as the Agency maintains statewide data on the location of regulated recharge areas and groundwater classifications. If such areas are present near the facility, Proponents do not object to including them on the facility map required under Section 706.340(d) to ensure comprehensive environmental review.

11. Section 706.340(g) requires an applicant to provide a list with the names and addresses for all owners of record of land within one-quarter mile (402 meters) of the facility boundary and allows the Agency to waive this requirement if the facility is in a populous area.

a. Please explain the purpose of this provision.

Proposed Section 706.340(g) is modeled on Section 704.161(e)(1). Because this information is required to be submitted in an application for a UIC permit, the City and Holcim proposed to include the requirement in the proposed rules.

b. Clarify why this requirement may not be applicable in populous areas.

Proposed Section 706.340(g) states: "This requirement may be waived by the Agency where the site is located in a populous area such that the requirement would be impracticable…" In a populous area, there may be dozens of property owners within a one-quarter mile, which could make the requirement to find and provide the names and addresses of all owners of record of land within one-quarter mile onerous.

c. What would be considered as a populous area in the context of an LRM authorization?

Proposed Section 706.340(g) is modeled on Section 704.161(e)(1). Neither the Act, Part 704, nor Part 702 include a definition of "populous." The proposed provision requires the Agency to waive the requirement where the site is located in a populous area such that the requirement would be impracticable. Therefore, the applicant would be required to request that the Agency waive this requirement and then the Agency would need to make the determination as to whether the requirement is impracticable due to the populous nature of the area. Holcim, who would be the applicant under the proposed rules if adopted, does not plan to request a waiver of this requirement when applying for an authorization.

12. Please comment on whether Section 706.340(h) should specify the type of analytical testing data by including a cross-reference to Section 706.470, which lists the annual testing requirements.

The City and Holcim do not oppose a cross-reference in Section 706.340(h) to Section 706.470, which sets forth the annual testing requirements. Including such a reference could provide helpful clarity by aligning the application content requirements with the ongoing analytical testing obligations, thereby promoting consistency and transparency in the regulatory framework.

However, Proponents recommend that any cross-reference be carefully worded to avoid implying that all analytical data required under Section 706.470 must be submitted at the time of application. Section 706.340(h) is intended to capture representative data necessary for initial evaluation of the material at the time of the authorization request, whereas Section 706.470 addresses periodic testing after placement begins. To avoid confusion, the cross-reference should clarify that it is included for informational alignment rather than to impose duplicative or premature requirements.

Proponents propose the following revision to Section 706.340(h):

Section 706.340 Information Requirements

An application for authorization for placement of LRM must provide the following information to the Agency, using the application form provided by the Agency. The application form shall require:

***

h) ~~A copy of all analytical data of the LRM to be placed for permanent storage in the facility that is the subject of the authorization.~~ Analytical testing data for the LRM that is representative of the material to be placed, consistent with the parameters identified in Section 706.470.

13. In Section 706.480, please clarify the types of records and reports that are required to be maintained that are "necessary to determine whether the operator has acted or is acting in compliance with the Act and Board regulations." Also, comment on whether the phrase "acted or is acting in compliance" could be replaced with "complied or is complying".

Proposed Section 706.480 is modeled on Section 704.194. The records referenced refer to, for example, the records required by proposed Section 706.350, records of the testing conducted under proposed Section 706.470, the annual facility map required by proposed Section 706.710, and records documenting the load verification requirements in proposed Section 706.730. The reports referenced would refer to the reporting requirements in proposed Section 706.500 as well

as submittal of the results of the testing required by proposed Section 706.720(e) (now proposed Section 706.470).

Proponents do not object to the Board's suggested revision to the language, as shown below:

Section 706.480 Maintenance and Submission of Records

The Agency must include, as a condition to an authorization under this Part, a requirement that the operator must establish and maintain such records, make such reports, conduct such monitoring, and provide such other information as the Agency deems necessary to determine whether the operator has ~~acted or is acting in compliance~~complied or is complying with the Act and Board regulations.

14. In Section 706.500(a), please comment on reducing the time limit from 30 days to 7 or 14 days for reporting deviations from conditions in the facility's authorization.

Proponents do not object to reducing the time limit from 30 days to 14 days for reporting deviations from the conditions in the facility's authorization. Proponents propose the following revision to Section 706.500(a):

Section 706.500 Reporting Requirements

a) The operator shall promptly notify the Agency within ~~30~~ 14 days of deviations from the conditions of the authorization. The deviation report shall contain at a minimum the following information:

1) Date and time of the deviation;

2) Nature of the deviation;

3) Duration of the event;

4) Probable cause of the deviation; and

5) Corrective actions or preventative measures taken.

15. Please comment on whether the following reorganization of Section 706.500(b) is acceptable:

b) By March 1st of each year, the operator must submit an annual report, for the prior year, to the Agency. The annual report must include:
1) the annual quantity of LRM, in wet tons, placed into the facility;
2) the results of chemical analyses required by the authorization;
3) a summary of the number of loads of LRM accepted and the number of loads rejected during the calendar year; and
4) the annual facility map required under Section 706.710.

Proponents do not object to the reorganization changes suggested by the Board to proposed Section 706.500(b).

16. Please clarify whether the facts or information under Section 706.500(d) would be submitted for Agency's approval as an application for modification of the authorization under Section 706.610.

Proposed Section 706.500(d) is modeled on Section 702.152(h), which states:

> h) Other Information. If the permittee becomes aware that it failed to submit any relevant facts in a permit application or that it submitted incorrect information in a permit application or in any report to the Agency, the permittee must promptly submit such facts or information.

Consistent with this precedent, it was not Proponents' intent that the submission of information under Section 706.500(d) automatically trigger the requirement to submit an application for modification under Section 706.610. The purpose of Section 706.500(d) is to ensure that the Agency receives accurate and complete information, even post-authorization, but not to create an additional procedural burden unless warranted.

In many instances, the newly submitted facts or corrections may not materially affect the terms or conditions of the issued authorization. However, if the nature of the information is such that it would necessitate changes to the authorization, the Agency retains the discretion to request a formal modification application be submitted pursuant to Section 706.610. Alternatively, if

the newly submitted facts raise substantial concerns, the Agency may also proceed under its authority to revoke the authorization pursuant to Section 706.620.

This approach maintains flexibility while ensuring that the Agency remains fully informed and empowered to act where necessary.

17. Section 706.510 requires the authorization to establish requirements necessary to ensure that the LRM does not migrate into any Underground Sources of Drinking Water (USDW). Please provide some examples of the requirements that the Agency must establish in the authorization to meet this operating requirement.

Proposed Section 706.510 is modeled on Section 704.185 and is intended to ensure that LRM placement does not result in migration into any Underground Sources of Drinking Water ("USDW"). Several provisions in the proposed regulations establish operational requirements that, individually and collectively, serve this purpose. For example, proposed Section 706.720 sets forth specific operational standards that must be reflected in the authorization, including that placement of LRM must be placed in a safe manner that protects human health and the environment (706.720(b)); that the working face of the facility must be no larger than is necessary for efficient operations, minimizing exposure and potential migration pathways (706.720(c)); that the operator must visually inspect the working face where LRM has been placed and any lower chambers immediately below where LRM has been placed in the facility to ensure integrity and detect potential migration (706.720(n)); and that the operator shall ensure that placement of LRM does not result in unintentional off-site migration (706.720(p)).

Additionally, proposed Section 706.430 requires the authorization to include a provision requiring the operator to take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the authorization. These regulatory requirements, combined with the physical characteristics of dewatered LRM—namely, its semi-solid consistency and low permeability—serve as engineering and operational controls

that significantly reduce the risk of migration into USDWs. As discussed during the First Hearing, these measures are designed to ensure effective containment within the mined-out areas of the facility.

18. Please explain the rationale for not limiting the duration of authorization under Section 706.520.

As explained in the First Hearing, with the assumption that the rooms can be filled to within 10 feet of the roof on both levels, Holcim estimates that portion of the mine owned by the City has approximately 129 years of life for placement of LRM. Testimony of R. Wille, First Hearing Transcript at 41:17-21. Given this projected longevity, and the consistency of the LRM generation, transportation, and placement processes over time, Proponents believe it is appropriate that the authorization not be subject to a fixed expiration date.

The regulatory framework already provides adequate safeguards to address any future changes. If operational changes occur that warrant revision of the terms of the authorization, the operator would be required to submit a request for modification under Section 706.610. Additionally, if the Agency determines at any point that the continued placement of LRM poses a threat to human health or the environment, it retains authority to revoke the authorization pursuant to Section 706.620.

This structure ensures long-term regulatory oversight while avoiding unnecessary administrative burdens for a process and facility expected to remain materially consistent over a multi-decade timeframe.

19. Section 706.530 specifies provisions for cessation of placement of LRM.

a. Please comment on whether the notice of cessation under subsection (b) should be given within a specified time limit like within 14 days of cessation of placement of LRM at the facility.

The City and Holcim do not oppose the inclusion of a specified time limit in Section 706.530(b) for providing notice of cessation of LRM placement. Establishing a clear timeframe—such as within 14 days of cessation—could provide regulatory certainty for both the Agency and the operator without imposing an unreasonable administrative burden.

A 14-day notice period is consistent with other reporting obligations in environmental regulatory programs and would allow sufficient time for the operator to confirm that placement activities have indeed ceased, particularly in situations where operations may be temporarily paused due to weather, maintenance, or logistical factors.

Accordingly, Proponents support the addition of language requiring that the operator notify the Agency "within 14 days after cessation of placement of LRM at the facility" as reflected below:

Section 706.530 Procedures for Cessation of Placement of LRM at an Authorized Facility

a) An operator may cease placement of LRM in the facility at any time. Cessation of placement of LRM does not mean that the operator needs to cease other operations at the facility, only that the operator needs to cease placement of LRM in the facility.

b) Notice of cessation of placement of LRM at the facility by the operator shall be given to the Agency <u>within 14 days after cessation of placement of LRM at the facility</u>, which shall include a description of the operator's future use or abandonment of the conveyance.

b. Also, in subsection (b), clarify what "a description of the operator's future use or abandonment of the conveyance" means.

The conveyance referenced in proposed Section 706.530(b) is the drop shaft, which will be used to convey the LRM from the surface to the underground portion of the mine. The phrase "a description of the operator's future use or abandonment of the conveyance" is intended to capture whether the drop shaft will be repurposed—for example, for ventilation or access—or whether it will be formally abandoned. If abandoned, the operator would be expected to follow applicable engineering and environmental protocols to ensure that the shaft is safely closed and secured in a manner that protects human health, the environment, and the structural integrity of the mine.

20. The financial responsibility provision under Section 706.540(a) requires an operator to demonstrate and maintain financial responsibility and resources to cease the underground placement of LRM in the facility in a manner prescribed by the Agency.

a. Please comment on whether the proposed rules under Section 706.540 should specify the manner in which financial responsibility must be maintained by the operator, i.e., a trust agreement, a surety bond, or an irrevocable letter of credit.

Proposed Section 706.540 is modeled on Section 704.189 and is intended to provide flexibility while ensuring adequate financial assurance. Proposed Section 706.540(b) requires the operator to show evidence of financial responsibility to the Agency by the submission of a surety bond or other adequate assurance, such as financial statements or other materials acceptable to the Agency. This approach mirrors the language and intent of Section 704.189(b), which also allows for various forms of financial demonstration, subject to Agency approval. Proponents believe that the current language strikes the appropriate balance between regulatory clarity and operational flexibility. Given that the suitability of a financial assurance

mechanism may vary based on the nature and scale of the operation, further specification is not necessary and could unduly limit the options available to the operator and the Agency.

b. Please comment on whether the rules should require the operator to submit an initial cost estimate for cessation of LRM placement at the facility in the application for authorization under Section 706.340 and then require the operator to update that cost estimate on an annual basis under Section 706.540(b).

As noted above, proposed Section 706.540(b) is consistent with Section 704.189(b), which does not require the permittee to update the cost estimate on an annual basis. The cessation of LRM placement under this framework would involve limited activities—primarily the conversion, repurposing, or abandonment of the drop shaft—rather than extensive closure or remediation measures typically associated with surface disposal facilities.

Given the limited scope and predictable nature of these cessation activities, Proponents do not believe it is necessary to require submission of an initial cost estimate as part of the application under Section 706.340, nor do they support a requirement for annual updates under Section 706.540(b). The flexibility built into the current rule allows the Agency to evaluate financial responsibility based on site-specific conditions and updated information, if and when circumstances change.

c. Under Section 706.540(b), please clarify what would constitute as "other adequate assurance" and "other materials" acceptable to the Agency.

Proposed Section 706.540(b) is modeled on Section 704.189(b) which similarly uses the terms "other adequate assurance" and "other materials acceptable to the Agency." The use of this language is intentional and reflects a desire to preserve regulatory flexibility, allowing the Illinois EPA to evaluate financial responsibility on a case-by-case basis, consistent with the operator's financial capacity and the scale of operations.

With respect to "other adequate assurance," Section 706.540(b) specifically provides the example of financial statements, which may be used to demonstrate financial strength or solvency sufficient to meet cessation obligations. As for "other materials acceptable to the Agency," this could include instruments such as corporate guarantees, insurance policies, escrow agreements, or other forms of documentation demonstrating the availability of financial resources.

Ultimately, Illinois EPA is in the best position to determine what constitutes acceptable financial assurance under this provision, based on its technical and regulatory expertise. Proponents defer to the Agency's discretion in interpreting and applying these terms consistent with its established practices.

21. Section 706.610 specifies the provisions for modification of authorization.

a. Please clarify whether a request for modification must be submitted using the Agency's authorization application form or would it be a written request.

Proponents' intent was that the modification request would be a written request.

b. Should the rules specify a time limit by which the Agency must act on a request for modification? If so, please specify.

The City and Holcim do not object to the inclusion of a reasonable time limit for Agency action on a request for modification under Section 706.610. Establishing a clear deadline could provide greater regulatory certainty for operators while promoting timely Agency review.

That said, any specified timeframe should be practical and reflect the complexity of the modification being requested. For routine or minor modifications, a time limit of 60 to 90 days from receipt of a complete application may be appropriate. However, for more complex or site-specific modifications, the rules should allow the Agency discretion to extend the review period as necessary, with written notice to the applicant.

Accordingly, Proponents recommend the following revision to proposed Section 706.610:

Section 706.610 Modification

a) An operator may seek to modify its authorization by submitting a modification request to the Agency.

b) The Agency shall approve any modification to an authorization that complies with this Part, including, but not limited to, a transfer of an authorization to a new operator.

c) The Agency shall take final action on a complete request for modification within 90 days, unless additional time is reasonably necessary due to the complexity of the request, in which case the Agency shall notify the operator in writing and provide an estimated timeline for final action.

This approach balances the need for regulatory clarity with the practical realities of administrative review.

c. In Section 706.610(b), comment on what the phrase "is consistent with this Part" means in the context of a modification of authorization. Would it be acceptable to the proponents if that phrase is replaced by "complies with this Part".

It was Proponents' intent that any modification to the authorization must comply with Part 706, specifically Subpart D which governs conditions of authorization. The phrase "is consistent with this Part" was intended to convey that meaning.

Accordingly, Proponents have no objection to revising the language in Section 706.610(b) to state "complies with this Part," as suggested by the Board. This revision more precisely reflects the regulatory standard and aligns with the Proponents' intent.

The revised language as suggested by the Board is shown below:

Section 706.610 Modification

a) An operator may seek to modify its authorization by submitting a modification request to the Agency.

b) The Agency shall approve any modification to an authorization that ~~is consistent~~ complies with this Part, including, but not limited to, a transfer of an authorization to a new operator.

22. Proposed Section 706.610 describes only one scenario for modifying an authorization, i.e., the operator submits a modification request to IEPA, which requested modification IEPA must approve if it "is consistent with this Part, including, but not limited to, a transfer of an authorization to a new operator." Other than the transfer of an authorization to a new operator, please describe grounds for operator-requested modifications that may be consistent with Part 706.

In addition to the transfer of an authorization to a new operator, there are several other scenarios in which an operator may request a modification under proposed Section 706.610 that would be consistent with Part 706. These may include, but are not limited to:

- Changes in the quantity or frequency of LRM placement that remain within the overall design capacity of the facility but require updates to monitoring or operational procedures.
- Revisions to the operational plan, such as adjustments to the sequence of room filling, methods of compaction, or inspection protocols, provided those changes continue to comply with the standards set forth in Subpart F.
- Updates to financial assurance documentation due to a change in the form or provider of financial responsibility (e.g., replacing a surety bond with a letter of credit), consistent with Section 706.540.
- Modifications to the placement method or conveyance system, such as altering the configuration of the drop shaft or introducing new equipment, as long as these changes maintain compliance with engineering and safety requirements.
- Administrative updates, such as changes in contact information, responsible personnel, or facility name, that do not affect the substantive terms of the authorization.

These examples reflect the need for flexibility while ensuring that any modification remains in full compliance with the applicable requirements of Part 706. The modification process serves as an appropriate mechanism for adapting to operational or administrative changes without compromising environmental protection or regulatory oversight.

a. Also, if a modification of an authorization is not initiated by the operator, please describe:

i. The grounds, if any, on which IEPA may initiate a modification to the authorization.

Currently, the provisions in proposed Part 706 do not expressly provide a pathway for Illinois EPA to initiate a modification to an authorization. Under the current framework, modifications are initiated by the operator, as described in Section 706.610.

However, Illinois EPA retains the authority to revoke an authorization under Section 706.620 if it determines that continued placement of LRM endangers human health or the environment, or if there is noncompliance with the terms of the authorization. In such cases, the operator could be required to reapply or submit a revised authorization request.

If the Board wishes to create a mechanism for Agency-initiated modifications, the Proponents would recommend that it be narrowly tailored to situations where the Agency identifies a material change in site conditions, regulatory requirements, or newly discovered information that warrants revision of the authorization short of revocation. Such a provision could include appropriate procedural safeguards, including notice to the operator and an opportunity to respond.

ii. The procedure that IEPA must use to modify the authorization.

If the Board elects to allow for Agency-initiated modifications, a corresponding procedural framework would need to be established. That procedure should include, at a minimum:

- Written notice from the Agency to the operator identifying the proposed modification and the factual or regulatory basis for the change.
- An opportunity for the operator to respond within a specified timeframe, such as 30 days, either by consenting to the modification or contesting its necessity or scope.
- Agency review of the operator's response, followed by a written decision that explains the final determination and the effective date of the modification.

This process would ensure due process for the operator while preserving the Agency's ability to respond to new information or changed conditions that could affect the continued appropriateness of the original authorization.

23. What does proposed Part 706 require of an operator before the operator may transfer its authorization to a new operator?

A request to transfer the authorization to a new operator would be made via the modification provision in proposed Section 706.610. As noted above, Proponents' intent was that the modification request would be made via a written request. Once the modification request is approved by the Agency, the new operator would be subject to the same conditions in the issued authorization as the prior owner, unless the new operator submits a request to modify any of the provisions. The Agency would then determine whether the modification would comply with Part 706 prior to granting the modification.

This process ensures continuity in regulatory oversight while providing a structured pathway for the orderly transfer of operational responsibility.

24. In Section 706.620, please clarify what "regulated to acceptable levels" mean in the context of endangerment of human health or the environment.

Proposed Section 706.620 is modeled, in part, on Section 702.186(d). Section 702.186(d) states that the Board can revoke a permit if a "determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification, reissuance, or revocation." In this context, the phrase "regulated to acceptable levels" reflects Proponents' intent that revocation of an authorization should only occur when Illinois EPA determines that continued placement of LRM presents a risk to human health or the environment, and that such risk cannot be adequately mitigated through modification or reissuance of the authorization. In other words, if the Agency identifies a condition or circumstance where the placement activity poses a substantial danger and cannot be brought into compliance with the protective standards of Part 706 through revised operational controls, monitoring, or other enforceable measures, then revocation may be warranted. This language is

intended to ensure that revocation is reserved for situations where no feasible regulatory remedy short of termination can adequately protect public health and the environment.

25. Proposed Section 706.620 provides that IEPA "<u>may seek revocation of an authorization</u>" but does not specify what procedure IEPA must use to seek revocation. In contrast, the Board's UIC permit program regulations (35 Ill. Adm. Code 704) include provisions on revocation that cross-reference Section 702.186 (35 Ill. Adm. Code 702.186). *See* 35 Ill. Adm. Code 704.122(b) ("the permit may be subject to revocation under 35 Ill. Adm. Code 702.186 if cause exists"); 35 Ill. Adm. Code 704.162(d) ("the Agency may . . . seek revocation under 35 Ill. Adm. Code 702.186"). Section 702.186 specifies when the Board will revoke a permit under Title VIII of the Environmental Protection Act, which concerns enforcement. Please describe the procedures IEPA must follow under proposed Section 706.620 to seek revocation of an authorization.

Proposed Section 706.620 provides that Illinois EPA "may seek revocation of an authorization," but does not itself set forth detailed procedures for doing so. Proponents intended for revocation under Section 706.620 to function consistently with existing permit revocation procedures under the Board's UIC permit program regulations, which incorporate 35 Ill. Adm. Code 702.186 by reference.

Under 35 Ill. Adm. Code 702.186, revocation of a permit is a formal enforcement action governed by Title VIII of the Illinois Environmental Protection Act. As such, the Agency must initiate a proceeding before the Board by filing a complaint, alleging that cause exists for revocation. The Board would then adjudicate the matter through a public hearing process consistent with its procedural rules and applicable due process requirements.

Accordingly, the procedure for revocation under proposed Section 706.620 would require the Agency to:

1. Identify cause for revocation—for example, a determination that LRM placement endangers human health or the environment and cannot be regulated to acceptable levels through modification or reissuance of the authorization.
2. Initiate an enforcement action before the Board under Title VIII by filing a formal complaint.

3. Provide the operator with notice and an opportunity to be heard in accordance with Board procedures.
4. Obtain a Board order revoking the authorization, if the Board finds that cause exists.

This process mirrors the structure and procedural safeguards applicable to revocations under the existing UIC program and ensures that revocation decisions are subject to independent review by the Board.

26. Proposed Section 706.620 lists only one ground on which IEPA may seek revocation: "if it determines that the permanent placement of LRM in the facility endangers human health or the environment and can only be regulated to acceptable levels by authorization modification, reissuance, or revocation." This ground generally corresponds to subsection (d) of Section 702.186 (35 Ill. Adm. Code 702.186(d)). But subsections (a), (b), and (c) of Section 702.186 provide three additional grounds for revocation:

a) The permittee's violation of the Environmental Protection Act or regulations adopted thereunder;
b) Noncompliance by the permittee with any condition of the permit;
c) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time;

35 Ill. Adm. Code 702.186(a), (b), (c). Should grounds generally corresponding to Section 702.186(a), (b), and (c) be added to proposed Section 706.620? If not, why not?

The City and Holcim do not oppose the inclusion of additional grounds for revocation in proposed Section 706.620 that are generally consistent with subsections (a), (b), and (c) of Section 702.186. Expanding Section 706.620 to incorporate these well-established bases for permit revocation would promote consistency with the Board's existing regulatory framework and provide clarity regarding the Agency's authority to address violations or misrepresentations. Accordingly, Proponents support the inclusion of additional revocation grounds in Section 706.620, modeled after 35 Ill. Adm. Code 702.186(a)–(c), as long as they are clearly defined and subject to the procedural safeguards referenced in Section 702.186 and

Title VIII of the Environmental Protection Act. Proponents propose the following revisions to Section 706.620:

Section 706.620 Revocation

The Agency may seek revocation of an authorization and the Board will revoke an authorization in accordance with Title VIII of the Environmental Protection Act for the following causes: ~~if it determines that~~

a) T~~t~~he permanent placement of LRM in the facility endangers human health or the environment and can only be regulated to acceptable levels by authorization modification, reissuance, or revocation;~~.~~

b) The operator's or generator's violation of Part 706;

c) Noncompliance by the operator with any condition of the authorization; or

d) The operator's failure in the application or during the authorization issuance process to disclose fully all relevant facts, or the operator's misrepresentation of any relevant facts at any time.

27. In Section 706.700, please provide citations to the applicable mining regulations. Please comment on whether the Agency as a part of its review will ensure that the facility design complies with applicable mining regulations. If not, should the operator certify that the facility design complies with the applicable mining regulations.

Proposed Section 706.700 requires that the placement of LRM be conducted in a manner that does not endanger human health or the environment and that maintains the structural stability of the mine. However, Section 706.700 does not currently cite specific mining regulations.

The applicable mining regulations for underground limestone mines in Illinois are found primarily in the IDNR Office of Mines and Minerals and include:

- 62 Ill. Adm. Code Part 220, *Coal Mining Act* (applicable to some mine safety and inspection standards);
- 62 Ill. Adm. Code Part 300, *Mine Safety and Training* (general mine safety provisions);

- Federal Mine Safety and Health Administration (MSHA) regulations, 30 CFR Parts 57 and 75, which apply to metal/nonmetal and coal mines respectively, and may also inform design and safety standards.

Proponents understand that the Illinois EPA's review under Part 706 is focused on environmental protection, not mine safety regulation. Illinois EPA does not have statutory authority to enforce compliance with IDNR or MSHA mining safety regulations. Therefore, it is not the intent of the proposed rules that the Agency ensure compliance with mining-specific design requirements during its authorization review.

That said, Proponents do not object to requiring the operator to submit a certification, as part of the authorization application under Section 706.340, affirming that the facility design complies with all applicable state and federal mining regulations. Such a certification would ensure coordination between regulatory programs and reinforce the operator's responsibility to maintain mine safety and structural integrity in accordance with applicable law. Proponents propose the following revisions:

Section 706.340 Information Requirements

An application for authorization for placement of LRM must provide the following information to the Agency, using the application form provided by the Agency. The application form shall require:

***

i) A certification, signed by the operator, certifying that the design of the facility complies with applicable state and federal mining regulations.

28. Sections 706.720 (b) and (c) cast a wide net by using the phrase "in conformance with the provisions of the Act and the regulations adopted under the Act". Would it be acceptable if that phrase is replaced with "in compliance with the requirements of this Part"? If not, please provide citations to applicable laws and regulations.

Yes, it is acceptable to revise proposed Sections 706.720(b) and (c) as suggested and as shown below:

Section 706.720 Operational Standards

***

b) Placement of LRM. LRM must be placed in a safe manner that protects human health and the environment in ~~conformance with the provisions of the Act and the regulations adopted under the Act~~ compliance with the requirements of this Part.

c) Size of Working Face. The working face of the facility must be no larger than is necessary, based on the underground mine and equipment used in LRM placement, to conduct operations in a manner in ~~conformance with the provisions of the Act and the regulations adopted under the Act~~ compliance with the requirements of this Part.

29. Section 706.720(e) specifies annual sampling and analysis requirements for LRM.

a. Please comment on whether USEPA/USDOE radiochemical method GA-01-R specified in Section 706.720(e)(1) for analysis of Radium 226 and Radium 228 should be incorporated by reference. If so, please provide full citation of that analytical method.

Proponents included the requirement to test the LRM for Radium 226 and Radium 228 in proposed Section 706.720(e)(1) because such testing is required by the City's land application permit. The City's land application permit is attached hereto as Exhibit 16. The land application permit does not specify a specific testing method that is required to be used. Proponents included USEPA/USDOE radiochemical method GA-01-R as the methodology based on a review of the results of the testing performed under the land application permit. The laboratories that tested the LRM samples for Radium 226 and Radium 228 utilized USEPA/USDOE radiochemical method GA-01-R. Proponents do not object to incorporating the method by reference and propose the following revisions to proposed Section 706.120:

Section 706.120 Incorporations by Reference

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions.

a) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," USEPA, SW-846 Update V, Revision 8 (July 2014)

b) "Handbook for Sampling and Sample Preservation of Water and Wastewater," USEPA, EPA-600/4-82-029 (Sept. 1982)

c) EML, DOE (EML is currently part of the DHS). 1997. "HASL-300 Method Ga-01-R: Gamma Radioassay." EML Procedures Manual, HASL-300, 28th Edition.

The method is currently available on USEPA's website at https://www.epa.gov/esam/eml-hasl-300-method-ga-01-r-gamma-radioassay.

b. Comment on whether the analytical results should be submitted to the Agency in the annual report under Section 706.500.

Proponents do not object to requiring that the analytical results required by proposed Section 706.720(e) (now proposed Section 706.470) be submitted to the Agency in the annual report under Section 706.500. Proponents propose the following revisions:

Section 706.470 Annual Testing

The LRM to be placed in the facility shall be sampled and analyzed by the generator on an annual basis, following these procedures:

a) Radium 226 and Radium 228 shall be sampled in accordance with USEPA/USDOE radiochemical method GA-01-R, and the resulting data shall be submitted to both the Agency and the Illinois Emergency Management Agency.

b) TCLP Volatiles, TCLP Semi-Volatiles, TCLP Pesticides, TCLP Herbicides, and TCLP Metals, including Mercury, shall be sampled in accordance with paragraph (1) below and the resulting data shall be submitted to the Agency.

1) The generator shall perform annual testing of TCLP Volatiles, Semi-Volatiles, Pesticides, Herbicides and Metals in a manner consistent with USEPA publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" and "Handbook for Sampling and Sample Preservation of Water and Wastewater," USEPA, EPA-600/4-82-029 (incorporated by reference in Section 706.120).

c) The results of the testing required by paragraphs (a) and (b) of this Section must be submitted to the Agency in the annual report required by Section 706.500.

Section 706.500 Reporting Requirements

***

b) By March 1st of each year, the operator must submit an annual report, for the prior year, to the Agency. The annual report must include:

1) the annual quantity of LRM, in wet tons, placed into the facility;

2) the results of chemical analyses required by the authorization, including the results of the annual testing pursuant to Section 706.470;

3) a summary of the number of loads of LRM accepted and the number of loads rejected during the calendar year; and

4) the annual facility map required pursuant to Section 706.710.

c. Please comment on the rationale for submitting radium analytical results to the Illinois Emergency Management Agency.

As discussed above, Proponents included the requirement to test the LRM for Radium 226 and Radium 228 in proposed Section 706.720(e)(1) because such testing is required by the City's land application permit. The City's land application permit requires that the results of the radium testing be submitted to the Illinois Emergency Management Agency. As such, Proponents intended to be consistent with what is required by the land application permit.

d. Comment of whether the sampling and analysis provisions under subsection 706.720(e) should be moved under annual testing at Section 706.470.

Proponents do not object to moving the sampling and analysis provisions under Section 706.720(e) to Section 706.470 as follows:

Section 706.470 Annual Testing

The LRM to be placed in the facility shall be sampled and analyzed by the generator on an annual basis, following these procedures:

a) Radium 226 and Radium 228 shall be sampled in accordance with USEPA/USDOE radiochemical method GA-01-R, and the resulting data shall be submitted to both the Agency and the Illinois Emergency Management Agency.

b) TCLP Volatiles, TCLP Semi-Volatiles, TCLP Pesticides, TCLP Herbicides, and TCLP Metals, including Mercury, shall be sampled in accordance with paragraph (1) below and the resulting data shall be submitted to the Agency.

1) The generator shall perform annual testing of ~~Toxicity Characteristic Leaching Procedure (~~TCLP~~)~~ Volatiles, Semi-Volatiles, Pesticides, Herbicides and Metals in a manner consistent with USEPA publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" and "Handbook for Sampling and Sample Preservation of Water and Wastewater," USEPA, EPA-600/4-82-029 (incorporated by reference in Section 706.120).

30. In Section 706.720(g), please comment whether it would be appropriate to require the availability of backup power or generators during outages.

The intent of proposed Section 706.720(g) is to ensure that all utilities necessary for the safe operation of LRM placement are functional during active operations. In the event of a utility outage affecting systems essential to safe placement, the operator would be required to suspend LRM placement until those utilities are restored.

Accordingly, Proponents do not believe it is necessary for the regulations to mandate the availability of backup power or generators. The focus should remain on ensuring that placement occurs only under safe and controlled conditions, rather than requiring continuous operation under all circumstances.

To clarify this intent, Proponents propose the following revision to Section 706.720(g):

Section 706.720 Operational Standards

***

g) Utilities. ~~All utilities, including, but not limited to, heat, lights, power, and communications equipment, necessary for safe operation in compliance with the requirements of this Part must be available at the facility at all times.~~ The operator must ensure that utilities necessary for the safe placement of LRM are operational during all periods of active placement. If such utilities become unavailable, the operator must cease placement until service is restored.

31. Section 706.720(h) requires the operation of backups, auxiliary facilities, or similar systems used only when necessary to achieve compliance with the condition of the permit. Please clarify whether "permit" should be replaced with "authorization". If not, please explain the proposed intent.

Proposed Section 706.720(h) was modeled on Section 702.145. Inclusion of "permit" rather than "authorization" was an inadvertent error and should be replaced with "authorization."

32. Please explain the purpose of the visual inspection required under Section 706.720(n), i.e., what is the operator looking for when conducting the visual inspection. Also, comment on the frequency of performing the visual inspection.

The operator would be looking for potential migration of the LRM during the visual inspections. Holcim intends to perform the visual inspection on a weekly basis. The visual inspection requirement in proposed Section 706.720(n) serves as an important operational safeguard to ensure the integrity and safety of LRM placement activities. The purpose of the inspection is to allow the operator to identify any visible signs of instability, improper placement, or material migration that could compromise the structural stability of the mine or pose environmental or safety concerns.

Specifically, the operator is expected to look for:

- Evidence of displacement or sloughing of placed LRM;
- Structural degradation or cracking in the mine floor, roof, or walls;
- Accumulation of moisture or seepage that may suggest potential migration pathways;
- Obstructions or failures in the drop shaft or conveyance system;
- Any anomalies in lower chambers that could indicate unintended material movement or void formation.

The frequency of the visual inspection is intended to correspond with the operator's ongoing placement activities. Although Section 706.720(n) does not prescribe a fixed interval, Proponents interpret it to require inspections on a regular and routine basis, coordinated with active placement operations. This could mean daily or weekly inspections during active placement, and less frequent inspections during inactive periods, as appropriate to ensure safe conditions.

Proponents are not opposed to clarifying that inspections must occur at a minimum on a weekly basis during active placement, or more frequently if conditions warrant.

33. If material other than LRM is found in the delivery of loads of LRM, Section 706.730 requires the operator to reject the load and ensure the proper disposal of the material.

a. Please clarify whether "proper disposal" means disposal in permitted landfill. If not, explain the proposed intent.

Yes, the term "proper disposal" in Section 706.730 refers to disposal at a permitted landfill or other waste management facility authorized under applicable state and federal regulations. The intent is to ensure that any non-LRM material inadvertently delivered to the site is removed from the facility and managed in full compliance with environmental laws and regulations.

b. Also, comment on whether the operator of the facility or the generator of LRM is responsible for disposal of the rejected load.

Proposed Section 706.730 requires that the operator ensure proper disposal of the rejected load. If the operator is transporting the LRM from the water treatment plant to the facility, the operator would be responsible for disposal of the rejected load. If the operator contracts with a third party for transportation, the operator would be responsible for ensuring that the third party properly disposes of the rejected load.

VII. CONCLUSION

The City and Holcim appreciate the opportunity to provide these post-hearing comments for the Board's consideration.

Respectfully submitted,
HOLCIM US, NORTH CENTRAL REGION

Dated: May 9, 2025

By: /s/ Alec Messina
One of Holcim's Attorneys

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Respectfully Submitted,
CITY OF AURORA

Dated: May 9, 2025

By: /s/ Dennis G. Walsh
One of its Attorneys

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TABLE OF EXHIBITS

Exhibit Number	Exhibit	Pages
1	List of Wells	LRM0001 - 0002
2	Sludge Semi-Annual Reports to IEPA 2023-2024	LRM0003 - 0007
3	Picture of LRM	LRM0008 - 0009
4	LRM TCLP Testing Results 7.14.22	LRM0010 - 0021
5	LRM Analytical and TCLP Results 7.22.24	LRM0022 - 0032
6	LRM Analytical and Groundwater Results 9.22.24	LRM0033 - 0039
7	TCLP Compliance Levels	LRM0040 - 0043
8	Underground Mine Maps	LRM0044 - 0046
9	Land Application Reports to IEPA 2023-2024	LRM0047 - 0720
10	Land Application Reports to IEMA 2023-2024	LRM0721 - 1424
11	PFAS Testing Results 12.13.22	LRM1425 - 1436
12	Conco Mine NPDES Permit	LRM1437 - 1462
13	Delivery Route and Drop Shaft Maps	LRM1463 - 1464
14	2023 Raw Water Testing Results	LRM1465 - 1467
15	2024 Raw Water Testing Results	LRM1468 - 1470
16	City of Aurora Land Application Permit	LRM1471 - 1475

EXHIBIT 1

CITY OF AURORA
Source Water Protection Plan
Table 2-1: Well Summary

Well Name	IEPA Well Number	Description	Location	Year Constructed	Depth (ft.)	Capacity (MGD)	Minimum Setback Zone (ft.)	Maximum Setback Zone (ft.)	Aquifer
Well #15	#21129	Deep Well	1036 Prairie Street	1958	1,719	1.47	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer Elmhurt-Mt. Simon
Well #16	#21130	Deep Well	SW corner LaFayette Ave. & Parker Ave.	1952	2,139	1.87	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer Elmhurt-Mt. Simon
Well #17	#21131	Deep Well	Highland Ave. and New Haven Ave.	1958	2,152	0.88	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer Elmhurt-Mt. Simon
Well #18	#21132	Deep Well	SE of Hillside Ave. and Cooligde Ave.	1961	1,486	1.59	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer Elmhurt-Mt. Simon
Well #19	#21133	Deep Well	Intersection of Prairie St. and Palmer Ave.	1973	1,420	1.02	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer Elmhurt-Mt. Simon
Well #20	#21134	Deep Well	Off Farnsworth North of EW Tollway	1967	1,400	1.79	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #21	#21135	Deep Well	In Pioneer Park	1972	1,447	1.23	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #22	#21136	Deep Well	Between Rt. 34 and Aurora Ave.	1973	1,420	1.41	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #23	#21137	Deep Well	Jericho Rd. and Barnes Rd.	1973	1,420	1.49	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #24	#01379	Deep Well	Church Rd. between Bilter and Butterfield	2002	1,460	1.34	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #25	#21138	Deep Well	East of Randall Rd. on Indian Trail	1974	1,460	1.91	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #26	#01526	Deep Well	Notthingham Dr. south of I88 Tollway	2004	1,381	0.80	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #27	#01547	Deep Well	Almond Dr. south of Indian Trail	2005	1,460	1.55	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #28	#01758	Deep Well	Indian Trail between Farnsworth and Eola Rd.	2007	1,465	1.56	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #29	#01849	Deep Well	Deerpath Rd north of Indian Trail	2008	1,420	2.22	200	1,000	Ironton-Galesville Aquifer Ancell Aquifer
Well #101	#00344	Shallow Well	In Pioneer Park by Well #21	1970	116	0.60	400	1,000	St. Charles Aquifer
~~Well #103~~	~~#00612~~	~~Shallow Well~~	~~North of Galena Blvd. on Orchard Rd.~~	~~1989~~	~~125~~	~~0.65~~	~~400~~	~~1,000~~	~~St. Charles Aquifer~~
Well #115	#00611	Shallow Well	East of Western Ave. on Southlawn Pl.	1989	135	1.14	400	1,000	St. Charles Aquifer
Well #119	#00610	Shallow Well	North of Washington Jr. HS	1989	130	0.65	400	1,000	St. Charles Aquifer
Well #127	#01541	Shallow Well	Almond Dr. south of Indian Trail	2005	245	1.00	400	1,000	Silurian dolomite aquifer
Well #129	#01859	Shallow Well	Deerpath Rd north of Indian Trail	2008	295	0.72	400	1,000	Silurian dolomite aquifer

* Abandoned

EXHIBIT 1

EXHIBIT 2

Division of Water Pollution Control
Sludge Management Report Form

Year 2023

Reporting Period (Check One)

☑ January 1 - June 30
☐ July 1 - December 31

NAME OF SLUDGE GENERATOR: City of Aurora Water Treatment Plant

NPDES PERMIT NUMBER: _____

Indicate the Volume (cubic yards or gallons) and the Number of DRY TONS of Sludge Generated and Disposed During the Above Reporting Period:

	SEMI-ANNUAL QUANTITY (Cubic Yards) (OR GALLONS)	SEMI-ANNUAL QUANTITY (DRY TONS)	ANNUAL QUANTITY* (DRY TONS ONLY)
QUANTITY OF SLUDGE GENERATED:	15,902.80 cu. yds.	7,127.50	
QUANTITY OF SLUDGE DISPOSED:			
Agricultural Land Application	12,387.82 cu. yds.	5,564.57	
Dedicated Land Disposal			
Disturbed Land Reclamation			
Horticultural (Sod farms, etc.)			
Landfill Utilization as Intermediate or Final Cover			
Landfill Waste Disposal	3,515.08 cu. yds.	1,472.93	
Public Distribution			
Storage Facility for Dewatered Sludge			
Storage Lagoon			
Other (Specify)_____			

Sludge Hauler Name(s): Stewart Spreading, Inc.

Disposal Site Name(s):** Rochelle Waste Disposal

*If this is the July 1 through December 31 report, also indicate above the DRY TONS of Sludge generated and disposed during the preceding January through December.
**For Landfill Disposal Only

Signature_____ Date_____ Title Asst. Supt. of Water Production

Name of Contact Person Joseph A. Munder, III Phone No. (630) 256-3250

(The report shall be signed by a person that fulfills the requirements of Section 309.103(e) of Subtitle C: Water Pollution)

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

IL 532-1613
WPC 530

LRM0004

EXHIBIT 2

Division of Water Pollution Control
Sludge Management Report Form

Year 2023.

Reporting Period (Check One)

☐ January 1 - June 30
☑ July 1 - December 31

NAME OF SLUDGE GENERATOR: City of Aurora Water Treatment Plant

NPDES PERMIT NUMBER: _____

Indicate the Volume (cubic yards or gallons) and the Number of DRY TONS of Sludge Generated and Disposed During the Above Reporting Period:

	SEMI-ANNUAL QUANTITY (Cubic Yards) (OR GALLONS)	SEMI-ANNUAL QUANTITY (DRY TONS)	ANNUAL QUANTITY* (DRY TONS ONLY)
QUANTITY OF SLUDGE GENERATED:	12,701.32 cu.yds.	5,597.37	12724.87
QUANTITY OF SLUDGE DISPOSED:			
Agricultural Land Application	11,844.51 cu. yds.	5,263.40	10,917.97
Dedicated Land Disposal			
Disturbed Land Reclamation			
Horticultural (Sod farms, etc.)			
Landfill Utilization as Intermediate or Final Cover			
Landfill Waste Disposal	856.81 cu. yds.	333.97	1,806.90
Public Distribution			
Storage Facility for Dewatered Sludge			
Storage Lagoon			
Other (Specify)_____			

Sludge Hauler Name(s): Stewart Spreading, Inc.

Disposal Site Name(s):** Rochelle Waste Disposal

*If this is the July 1 through December 31 report, also indicate above the DRY TONS of Sludge generated and disposed during the preceding January through December.
**For Landfill Disposal Only

Signature_____ Date_____ Title Assist. Supt. of Water Production

Name of Contact Person Joseph A. Munder, III Phone No. (630) 256-3250

(The report shall be signed by a person that fulfills the requirements of Section 309.103(e) of Subtitle C: Water Pollution)

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IL 532-1613
WPC 530

Division of Water Pollution Control
Sludge Management Report Form

Year 2024

Reporting Period (Check One)

☑ January 1 - June 30
☐ July 1 - December 31

NAME OF SLUDGE GENERATOR: City of Aurora, Illinois

NPDES PERMIT NUMBER: _____

Indicate the Volume (cubic yards or gallons) and the Number of DRY TONS of Sludge Generated and Disposed During the Above Reporting Period:

	SEMI-ANNUAL QUANTITY (Cubic Yards) (OR GALLONS)	SEMI-ANNUAL QUANTITY (DRY TONS)	ANNUAL QUANTITY* (DRY TONS ONLY)
QUANTITY OF SLUDGE GENERATED:	15,565.68 cu. yds	7,275.69	
QUANTITY OF SLUDGE DISPOSED:			
Agricultural Land Application	14,722.80 cu. yds	6,889.01	
Dedicated Land Disposal			
Disturbed Land Reclamation			
Horticultural (Sod farms, etc.)			
Landfill Utilization as Intermediate or Final Cover			
Landfill Waste Disposal	842.88 cu. yds	386.68	
Public Distribution			
Storage Facility for Dewatered Sludge			
Storage Lagoon			
Other (Specify)_____			

Sludge Hauler Name(s): Stewart Spreading

Disposal Site Name(s):** Winnebago Landfill & Rochelle Landfill

*If this is the July 1 through December 31 report, also indicate above the DRY TONS of Sludge generated and disposed during the preceding January through December.
**For Landfill Disposal Only

Signature_____ Date_____ Title Asst. Supt. of Water Production

Name of Contact Person Joseph A. Munder, III Phone No. (630) 256-3250

(The report shall be signed by a person that fulfills the requirements of Section 309.103(e) of Subtitle C: Water Pollution)

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

IL 532-1613
WPC 530

Division of Water Pollution Control
Sludge Management Report Form

Year 2024

Reporting Period (Check One)

☐ January 1 - June 30
☑ July 1 - December 31

NAME OF SLUDGE GENERATOR: City of Aurora Water Treatment Plant

NPDES PERMIT NUMBER: _____

Indicate the Volume (cubic yards or gallons) and the Number of DRY TONS of Sludge Generated and Disposed During the Above Reporting Period:

	SEMI-ANNUAL QUANTITY (Cubic Yards) (OR GALLONS)	SEMI-ANNUAL QUANTITY (DRY TONS)	ANNUAL QUANTITY* (DRY TONS ONLY)
QUANTITY OF SLUDGE GENERATED:	20,983.06 cu. yds.	9,034.02	16,309.71
QUANTITY OF SLUDGE DISPOSED:			
Agricultural Land Application	20,958.57 cu. yds.	9,023.35	15,912.36
Dedicated Land Disposal			
Disturbed Land Reclamation			
Horticultural (Sod farms, etc.)			
Landfill Utilization as Intermediate or Final Cover			
Landfill Waste Disposal	24.49 cu. yds.	10.67	397.35
Public Distribution			
Storage Facility for Dewatered Sludge			
Storage Lagoon			
Other (Specify)_____			

Sludge Hauler Name(s): Stewart Spreading, Inc.

Disposal Site Name(s):** Rochelle Landfill

*If this is the July 1 through December 31 report, also indicate above the DRY TONS of Sludge generated and disposed during the preceding January through December.
**For Landfill Disposal Only

Signature_____ Date_____ Title Assist. Supt. of Water Production

Name of Contact Person Joseph A. Munder, III Phone No. (630) 256-3250

(The report shall be signed by a person that fulfills the requirements of Section 309.103(e) of Subtitle C: Water Pollution)

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

IL 532-1613
WPC 530

EXHIBIT 3



LRM0009

EXHIBIT 3

EXHIBIT 4

City of Aurora

Public Works Department
Water Production Division
44 E. Downer Place Aurora, Illinois 60507
(630) 256-3250
FAX (630) 256-3259

LRM TCLP Analytical Results and TCLP Standards

ANALYTE	UNITS		TCLP REGULATORY LEVEL STANDARD	LRM ANALYTICAL SAMPLING RESULTS SAMPLE DATE : 7/14/2022
BENZENE	mg/L (ppm)		0.5	< 0.050
METHYL ETHYL KETONE	mg/L (ppm)		200.0	< 0.100
CARBON TETRACHLORIDE	mg/L (ppm)		0.5	< 0.050
CHLOROBENZENE	mg/L (ppm)		100	< 0.050
CHLOROFORM	mg/L (ppm)		6.0	< 0.050
1,2-DICHLOROETHANE	mg/L (ppm)		0.5	< 0.050
1,1-DICHLOROETHYLENE	mg/L (ppm)		0.7	< 0.050
TETRACHLOROETHYLENE	mg/L (ppm)		0.7	< 0.050
TRICHLOROETHYLENE	mg/L (ppm)		0.5	< 0.050
VINYL CHLORIDE	mg/L (ppm)		0.2	< 0.100
1,4-DICHLOROBENZENE	mg/L (ppm)		7.5	< 0.10
2,4-DINITROTOLUENE	mg/L (ppm)		0.13	< 0.10
HEXACHLOROBENZENE	mg/L (ppm)		0.13	< 0.10
HEXACHLOROBUTADIENE	mg/L (ppm)		0.5	< 0.10
HEXACHLOROETHANE	mg/L (ppm)		3.0	< 0.10
NITROBENZENE	mg/L (ppm)		2.0	< 0.10
PENTACHLOROPHENOL	mg/L (ppm)		100.0	< 0.50
PYRIDINE	mg/L (ppm)		5.0	< 0.50
2,4,5-TRICHLOROPHENOL	mg/L (ppm)		400.0	< 0.10
2,4,6-TRICHLOROPHENOL	mg/L (ppm)		2.0	< 0.10
ENDRIN	mg/L (ppm)		0.02	< 0.001
LINDANE (GAMMA-BHC)	mg/L (ppm)		0.4	< 0.005
HEPTACHLOR	mg/L (ppm)		0.008	< 0.004
HEPTACHLOR EPOXIDE	mg/L (ppm)		0.008	< 0.004
METHOXYCHLOR	mg/L (ppm)		10.0	< 0.005
TOXAPHENE	mg/L (ppm)		0.5	< 0.010
CHLORDANE(TOTAL)	mg/L (ppm)		0.03	< 0.005
2,4-D	mg/L (ppm)		10.0	<0.5
SILVEX (2,4,5-TP)	mg/L (ppm)		1.0	< 0.5
ARSENIC	mg/L (ppm)		5.0	< 0.010
BARIUM	mg/L (ppm)		100	< 1.0
CADMIUM	mg/L (ppm)		1.0	< 0.005
CHROMIUM	mg/L (ppm)		5.0	< 0.005
LEAD	mg/L (ppm)		5.0	< 0.005
MERCURY	mg/L (ppm)		0.2	< 0.0005
SELENIUM	mg/L (ppm)		1.0	0.010
SILVER	mg/L (ppm)		5.0	< 0.005

mg/L = ppm = parts per million < = results are less than detection limit of method

EXHIBIT 4

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

August 18, 2022

Ms. Megan Luers
AURORA, CITY OF
44 E. Downer Place
Aurora, IL 60507

Project ID: Annual Lagoon Sludge 295284
First Environmental File ID: 22-5168
Date Received: July 14, 2022

Dear Ms. Megan Luers:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922022-8: effective 02/10/2022 through 02/28/2023.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Joy Geraci
Project Manager

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Environmental
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Case Narrative

AURORA, CITY OF

Lab File ID: **22-5168**

Project ID: **Annual Lagoon Sludge 295284**

Date Received: **July 14, 2022**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
22-5168-001	Sludge	7/14/2022 8:00

Sample Batch Comments:

Sample acceptance criteria were met.

The following analyses have been subcontracted to the indicated laboratory:

Analysis	Subcontractor:
Radium 226 & 228	*ATI MIDWEST LABORATORY Northbrook, IL*
Sulfur by ICP	*TEKLAB Collinsville, IL*
TCLP Herbicides Method 1311	*STAT ANALYSIS CORP. Chicago, IL*

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Case Narrative

AURORA, CITY OF

Lab File ID: **22-5168**

Project ID: **Annual Lagoon Sludge 295284**

Date Received: **July 14, 2022**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Volatiles Method 1311/8260B **Method: 5030B/8260B**				
Analysis Date: 07/20/22				
Analyzed By: JCG				
Benzene	< 0.050	0.050	mg/L	
2-Butanone (MEK)	< 0.100	0.100	mg/L	
Carbon tetrachloride	< 0.050	0.050	mg/L	
Chlorobenzene	< 0.050	0.050	mg/L	
Chloroform	< 0.050	0.050	mg/L	
1,2-Dichloroethane	< 0.050	0.050	mg/L	
1,1-Dichloroethene	< 0.050	0.050	mg/L	
Tetrachloroethene	< 0.050	0.050	mg/L	
Trichloroethene	< 0.050	0.050	mg/L	
Vinyl chloride	< 0.100	0.100	mg/L	
TCLP Semi-Volatiles Method 1311 **Method: 3510C/8270C**		**Preparation Method 3510C**		
Analysis Date: 07/21/22		Preparation Date: 07/20/22		
Analyzed By: GB		Prepped By: NH		
1,4-Dichlorobenzene	< 0.10	0.10	mg/L	
2,4-Dinitrotoluene	< 0.10	0.10	mg/L	
Hexachlorobenzene	< 0.10	0.10	mg/L	
Hexachlorobutadiene	< 0.10	0.10	mg/L	
Hexachloroethane	< 0.10	0.10	mg/L	
2-Methylphenol	< 0.10	0.10	mg/L	
3 & 4-Methylphenol	< 0.10	0.10	mg/L	
Nitrobenzene	< 0.10	0.10	mg/L	
Pentachlorophenol	< 0.50	0.50	mg/L	
Pyridine	< 0.50	0.50	mg/L	
2,4,5-Trichlorophenol	< 0.10	0.10	mg/L	
2,4,6-Trichlorophenol	< 0.10	0.10	mg/L	
TCLP Pesticides Method 1311/8081A **Method: 3510C/8081A**		**Preparation Method 3510C**		
Analysis Date: 07/22/22		Preparation Date: 07/19/22		
Analyzed By: RAH		Prepped By: NH		
Endrin	< 0.001	0.001	mg/L	
gamma-BHC (Lindane)	< 0.005	0.005	mg/L	
Heptachlor	< 0.004	0.004	mg/L	
Heptachlor epoxide	< 0.004	0.004	mg/L	
Methoxychlor	< 0.005	0.005	mg/L	
Toxaphene	< 0.010	0.01	mg/L	
Chlordane (Total)	< 0.005	0.005	mg/L	

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IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/20/22			Preparation Date: 07/20/22		
Analyzed By: KJM			Prepped By: KJM		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22			Preparation Date: 07/18/22		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

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Analytical Report

Client:	AURORA, CITY OF	**Date Collected:**	07/14/22
Project ID:	Annual Lagoon Sludge 295284	**Time Collected:**	8:00
Sample ID:	Sludge	**Date Received:**	07/14/22
Sample No:	22-5168-001	**Date Reported:**	08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

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Analytical Report

Client:	AURORA, CITY OF	**Date Collected:**	07/14/22
Project ID:	Annual Lagoon Sludge 295284	**Time Collected:**	8:00
Sample ID:	Sludge	**Date Received:**	07/14/22
Sample No:	22-5168-001	**Date Reported:**	08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Calcium Carbonate Equivalent **Method: EPA**				
Analysis Date: 07/25/22				
Analyzed By: EMS				
Calcium Carbonate Equivalent	97.6	0.1	% CaCO3	N
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 07/20/22				
Analyzed By: EMS				
Ammonia (as N)	38.5	2.0	mg/kg	N
Total Kjeldahl Nitrogen (TKN) **Method: 351.2R2.0**				
Analysis Date: 07/22/22				
Analyzed By: EMS				
Total Kjeldahl Nitrogen (TKN)	590	100	mg/kg	N
Oil & Grease **Method: 9071B**				
Analysis Date: 07/22/22				
Analyzed By: NH				
Oil & Grease	< 500	500	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/22 12:40				
Analyzed By: AKN				
pH @ 25°C, 1:2	9.34		Units	
Phenols **Method: 420.1**				
Analysis Date: 07/20/22				
Analyzed By: KEF				
Phenols	< 2.5	2.5	mg/kg	N
Phosphorus (as P) **Method: 4500P,E 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
Phosphorus (as P)	2.1	0.5	mg/kg	N
Total Volatile Solids **Method: 2540G 2011**				
Analysis Date: 07/15/22				
Analyzed By: KEF				
Total Volatile Solids	4.47	1.00	%	N
Solids, total **Method: 2540G 2011**				
Analysis Date: 07/15/22				
Analyzed By: KTG				
Total Solids	52.53		%	

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IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226	2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Print Form

Page of Pgs

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

1600 Shore Road, Suite D
Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: info@firstenv.com
IEPA Accreditation #100292

Company Name: CITY OF AURORA WTP			
Street Address: 44 E DOWNER PL			
City: AURORA		State: IL	Zip: 60505
Phone: 6302563255	Fax: 6302563259	e-Mail: MLuers@AURORA-IL.ORG	
Send Report To: Megan Luers		Via Fax: ☐	Via e-Mail: ☒
Sampled By: Eric Martinez			

Project I.D.: ANNUAL LAGOON SLUDGE

P.O. #: 295284

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix	SEE ATTACHED								Comments	Lab I.D.
07/14/2022 9:30	SLUDGE	Other	✓								22-5168	001
		Other										

FOR LAB USE ONLY: Cooler Temperature: 0.1-6°C Yes✓ No___ 1.6 °C
Received within 6 hrs of collection:_____
Ice Present: Yes✓ No___

Sample Refrigerated: Yes___ No___
Refrigerator Temperature:_____°C

Containers Received Preserved: Yes___ No___
5035 Vials Frozen: Yes___ No___
Freezer Temperature:_____°C

Notes and Special Instructions:

PLEASE ADD CALCIUM, MAGNESIUM AND RADIUM TO THE ANALYSIS. Results on a dry weight basis

Relinquished By: E. Martinez	Date/Time: 7-14-22 1130	Received By: MJ	Date/Time: 7-14-22 1130
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 1/07

SLUDGE SAMPLING PARAMETERS

TCLP (Toxicity Char.Leach.Procedure)

VOLATILE COMPOUNDS

NOTE: mg/L of Extract (TCLP)

TCLP-BENZENE
TCLP-CARBON TETRACHLORIDE
TCLP-CHLOROBENZENE
TCLP-CHLOROFORM
TCLP-1-2 DICHLOROETHANE
TCLP-1,1- DICHLOROETHYLENE
TCLP-METHYL ETHYL KETONE 2-butanone
TCLP-TETRACHLOROETHYLENE
TCLP-TRICHLOROETHYLENE
TCLP-VINYL CHLORIDE

SEMI-VOLATILE COMPOUNDS

TCLP-0-CRESOL (2, METHYLPHENOL)
TCLP-M-CRESOL (3, METHYLPHENOL)
TCLP-P-CRESOL (4,METHYLPHENOL)
TCLP-1-4 DICHLOROBENZENE
TCLP-2-4 DINITROTOLUENE
TCLP-HEXACHLOROBENZENE
TCLP-HEXACHLOROBUTADIENE
TCLP-HEXACH LOROETHANE
TCLP-NITROBENZENE
TCLP-PENTACHLOROPHENOL
TCLP-PYRIDIINE
TCLP-2,4,5 TRICHLOROPHENOL
TCLP-2,4,6 TRICHLOROPHENOL

PESTICIDES/HERBICIDES

TCLP-CHLORDANE
TCLP-ENDRIN
TCLP-HEPTACHLOR (& ITS HYDROXIDE)
TCLP-LINDANE
TCLP-METHOXYCLOR
TCLP-HEPTACHLOR EPOXIDE
TCLP-TOXAPHENE
TCLP-2,4 D
TCLP-2,4,5 - TP (SILVEX)

METALS

TCLP-ARSENIC
TCLP-BARIUM
TCLP-CADMIUM
TCLP-CHROMIUM
TCLP-LEAD
TCLP-MERCURY
TCLP-SELENIUM
TCLP-SILVER

TOTAL METALS

ALUMINUM
ARSENIC
BARIUM
CADMIUM
CHROMIUM
CHROMIUM HEXAVALENT
COBALT
COPPER
IRON
LEAD
MANGANESE
MERCURY
NICKEL
POTASSIUM
SELENIUM
SODIUM
VANADIUM
ZINC
SILVER

MAGNESIOM

INORGANICS

COD SOLUBLE
ACIDITY
ALKALINITY (TOTAL CaCO 3)
CALCIUM CARBONATE %
N-AMMONIA
N-KJELDAHL
OIL & GREASE
pH units
PHENOL
PHOSPHORUS TOTAL
SOLIDS, TOTAL %
SOLIDS, TOTAL VOLATILE %
SULFIDE
SULFUR, TOTAL %
CYANIDE

CALCIUM

Soluble sulfate

RADIOLOGIC

GROSS ALPHA pci/L
GROSS BETA pci/L
RADIUM 226 pci/L
RADIUM 228 pci/L

EXHIBIT 5

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

October 07, 2024

Ms. Megan Luers
AURORA, CITY OF
44 E. Downer Place
Aurora, IL 60507

Project ID: PO# 302992, Yearly Sludge Sample
First Environmental File ID: 24-6420
Date Received: July 22, 2024

Dear Ms. Megan Luers:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922024-13: effective 03/06/24 through 02/28/2025.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Joy Geraci
Project Manager

EXHIBIT 5

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

AURORA, CITY OF

Lab File ID: **24-6420**

Project ID: **PO# 302992, Yearly Sludge Sample**

Date Received: **July 22, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
24-6420-001	Yearly Sludge Sample	7/22/2024 8:10

Sample Batch Comments:

Sample acceptance criteria were met.

The following analyses have been subcontracted to the indicated laboratory:

Analysis	Subcontractor:
Gross Alpha	*MICROBAC Northbrook, IL*
Gross Beta	
Radium 226 & 228	
Sulfur by ICP	*TEKLAB Collinsville, IL*
TCLP Herbicides Method 1311	*STERLING LABS (Formerly STAT ANALYSIS) Chicago, IL*

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Case Narrative

AURORA, CITY OF

Lab File ID: **24-6420**

Project ID: **PO# 302992, Yearly Sludge Sample**

Date Received: **July 22, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 10/07/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Volatiles Method 1311/8260B **Method: 5030B/8260B**				
Analysis Date: 07/26/24				
Analyzed By: BAR				
Benzene	< 0.050	0.050	mg/L	
2-Butanone (MEK)	< 0.100	0.100	mg/L	
Carbon tetrachloride	< 0.050	0.050	mg/L	
Chlorobenzene	< 0.050	0.050	mg/L	
Chloroform	< 0.050	0.050	mg/L	
1,2-Dichloroethane	< 0.050	0.050	mg/L	
1,1-Dichloroethene	< 0.050	0.050	mg/L	
Tetrachloroethene	< 0.050	0.050	mg/L	
Trichloroethene	< 0.050	0.050	mg/L	
Vinyl chloride	< 0.100	0.100	mg/L	
TCLP Semi-Volatiles Method 1311 **Method: 3510C/8270C**		**Preparation Method 3510C**		
Analysis Date: 07/30/24		Preparation Date: 07/29/24		
Analyzed By: GB		Prepped By: CNM		
1,4-Dichlorobenzene	< 0.10	0.10	mg/L	
2,4-Dinitrotoluene	< 0.10	0.10	mg/L	
Hexachlorobenzene	< 0.10	0.10	mg/L	
Hexachlorobutadiene	< 0.10	0.10	mg/L	
Hexachloroethane	< 0.10	0.10	mg/L	
2-Methylphenol	< 0.10	0.10	mg/L	
3 & 4-Methylphenol	< 0.10	0.10	mg/L	
Nitrobenzene	< 0.10	0.10	mg/L	
Pentachlorophenol	< 0.50	0.50	mg/L	
Pyridine	< 0.50	0.50	mg/L	
2,4,5-Trichlorophenol	< 0.10	0.10	mg/L	
2,4,6-Trichlorophenol	< 0.10	0.10	mg/L	
TCLP Pesticides Method 1311/8081A **Method: 3510C/8081A**		**Preparation Method 3510C**		
Analysis Date: 07/30/24		Preparation Date: 07/29/24		
Analyzed By: RAH		Prepped By: CNM		
Endrin	< 0.001	0.001	mg/L	
gamma-BHC (Lindane)	< 0.005	0.005	mg/L	
Heptachlor	< 0.004	0.004	mg/L	
Heptachlor epoxide	< 0.004	0.004	mg/L	
Methoxychlor	< 0.005	0.005	mg/L	
Toxaphene	< 0.010	0.01	mg/L	
Chlordane (Total)	< 0.005	0.005	mg/L	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 10/07/24

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 08/06/24					
Analyzed By: STERLIN					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24			Preparation Date: 07/26/24		
Analyzed By: KJM			Prepped By: KJM		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.011	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/29/24					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/25/24					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/25/24					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24			Preparation Date: 07/29/24		
Analyzed By: KJM			Prepped By: KJM		
Arsenic		< 3.0	1.0	mg/kg	W
Barium		138	0.5	mg/kg	
Cadmium		< 1.5	0.5	mg/kg	W
Chromium		12.0	0.5	mg/kg	
Lead		< 1.5	0.5	mg/kg	W
Selenium		< 3.0	1.0	mg/kg	W
Silver		< 0.5	0.2	mg/kg	W

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 10/07/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Aluminum	1,190	10	mg/kg	
Calcium	355,000	50	mg/kg	
Cobalt	1.1	0.5	mg/kg	
Iron	13,000	5.0	mg/kg	
Magnesium	18,600	50	mg/kg	
Potassium	133	50	mg/kg	
Sodium	654	50	mg/kg	
Vanadium	19.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/26/24				
Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/30/24				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/31/24				
Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/25/24 13:30				
Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/25/24 13:00				
Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 10/07/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Calcium Carbonate Equivalent **Method: EPA**				
Analysis Date: 08/20/24				
Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 08/05/24				
Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N
Total Kjeldahl Nitrogen (TKN) **Method: 351.2R2.0**				
Analysis Date: 07/30/24				
Analyzed By: NZ				
Total Kjeldahl Nitrogen (TKN)	1,180	100	mg/kg	N
Oil & Grease **Method: 9071B**				
Analysis Date: 08/02/24				
Analyzed By: CNM				
Oil & Grease	< 500	500	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/25/24 11:30				
Analyzed By: AC				
pH @ 25°C, 1:2	8.77		Units	
Phenols **Method: 420.1**				
Analysis Date: 07/26/24				
Analyzed By: AAS				
Phenols	< 2.5	2.5	mg/kg	N
Phosphorus (as P) **Method: 4500P,E 2011**				
Analysis Date: 07/31/24				
Analyzed By: JCG				
Phosphorus (as P)	< 2.0	2.0	mg/kg	N
Total Volatile Solids **Method: 2540G 2015**				
Analysis Date: 07/29/24				
Analyzed By: AAS				
Total Volatile Solids	13.33	1.00	%	N
Solids, total **Method: 2540G 2011**				
Analysis Date: 07/23/24				
Analyzed By: AAS/NZ				
Total Solids	47.86		%	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 10/07/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/30/24				
Analyzed By: JCG				
Sulfate, Soluble	631	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/29/24				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Print Form

Page of Pgs

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

1600 Shore Road, Suite D
Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: info@firstenv.com
IEPA Accreditation #100292

Company Name: Aurora

Street Address: 1111 Aurora Ave

City: Aurora State: IL Zip:

Phone: 630 256 3235 Fax: 630 256 3235 e-Mail:

Send Report To: Meagan Lewis Via Fax: ☐ Via e-Mail: ☐

Sampled By: Lauren DeLange

Project I D: Yearly Sludge Sample

P O #: 6029.02

Enter analyses required on the lines to the left
Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix	See Attached	Comments	Lab I D.
7.22.24 8.10	Yearly Sludge Sample	Water		24-6420-	021
		Water			
		Water			
		Other			

FOR LAB USE ONLY: Cooler Temperature:0.1-6°C Yes___ No 1.5 °C
Received within 6 hrs of collection: Yes
Ice Present: Yes X No

Sample Refrigerated: Yes___ No___
Refrigerator Temperature:_____ °C

Containers Received Preserved: Yes___ No___
5035 Vials Frozen: Yes___ No___
Freezer Temperature:_____ °C

Notes and Special Instructions:

Relinquished By: Lauren DeLange	Date/Time: 7/22/24	Received By:	Date/Time 7/22/24 1340
Relinquished By	Date/Time,	Received By:	Date/Time

Rev 10/7

SLUDGE SAMPLING PARAMETERS

TCLP (Toxicity Characteristic Leach Procedure)

VOLATILE COMPOUNDS

NOTE: mg/L in Extract (TCLP)

TCLP-BENZENE
TCLP-CARBON TETRACHLORIDE
TCLP-CHLOROBENZENE
TCLP-CHLOROFORM
TCLP-1-2 DICHLOROETHANE
TCLP-1,1- DICHLOROETHYLENE
TCLP-METHYL ETHYL KETONE 2-butanone
TCLP-TETRACHLOROETHYLENE
TCLP-TRICHLOROETHYLENE
TCLP-VINYL CHLORIDE

SEMI-VOLATILE COMPOUNDS

TCLP-O-CRESOL (2, METHYLPHENOL)
TCLP-M-CRESOL (3, METHYLPHENOL)
TCLP-P-CRESOL (4,METHYLPHENOL)
TCLP-1-4 DICHLOROBENZENE
TCLP-2-4 DINITROTOLUENE
TCLP-HEXACHLOROBENZENE
TCLP-HEXACHLOROBUTADIENE
TCLP-HEXACH LOROETHANE
TCLP-NITROBENZENE
TCLP-PENTACHLOROPHENOL
TCLP-PYRIDIINE
TCLP-2,4,5 TRICHLOROPHENOL
TCLP-2,4,6 TRICHLOROPHENOL

PESTICIDES/HERBICIDES

TCLP-CHLORDANE
TCLP-ENDRIN
TCLP-HEPTACHLOR (& ITS HYDROXIDE)
TCLP-LINDANE
TCLP-METHOXYCLOR
TCLP-HEPTACHLOR EPOXIDE
TCLP-TOXAPHENE
TCLP-2,4 D
TCLP-2,4,5 - TP (SILVEX)

METALS

TCLP-ARSENIC
TCLP-BARIUM
TCLP-CADMIUM
TCLP-CHROMIUM
TCLP-LEAD
TCLP-MERCURY
TCLP-SELENIUM
TCLP-SILVER

TOTAL METALS

ALUMINUM
ARSENIC
BARIUM
CADMIUM
CHROMIUM
CHROMIUM HEXAVALENT
COBALT
COPPER
IRON
LEAD
MANGANESE
MERCURY
NICKEL
POTASSIUM
SELENIUM
SODIUM
VANADIUM
ZINC
SILVER

MAGNESIUM

INORGANICS

COD SOLUBLE
ACIDITY
ALKALINITY (TOTAL CaCO 3)
CALCIUM CARBONATE %
N-AMMONIA
N-KJELDAHL
OIL & GREASE
pH units
PHENOL
PHOSPHORUS TOTAL
SOLIDS, TOTAL %
SOLIDS, TOTAL VOLATILE %
SULFIDE
SULFUR, TOTAL %
CYANIDE

CALCIUM

RADIOLOGIC

GROSS ALPHA pci/L
GROSS BETA pci/L
RADIUM 226 pci/L
RADIUM 228 pci/l

EXHIBIT 6

City of Aurora

Public Works Department
Water Production Division
44 E. Downer Place Aurora, Illinois 60507
(630) 256-3250
FAX (630) 256-3259

LRM Analytical Results and Class I Groundwater Standards

ANALYTE	UNITS		CLASS I GROUNDWATER STANDARD	LRM ANALYTICAL SAMPLING RESULTS SAMPLE DATE : 9/24/2022
ANTIMONY	mg/L (ppm)		0.006	< 0.006
ARSENIC	mg/L (ppm)		0.010	< 0.010
BARIUM	mg/L (ppm)		2.0	< 1.0
BERYLLIUM	mg/L (ppm)		0.004	< 0.004
BORON	mg/L (ppm)		2.0	0.10
CADMIUM	mg/L (ppm)		0.005	< 0.005
CHROMIUM	mg/L (ppm)		0.1	< 0.005
COBALT	mg/L (ppm)		1.0	< 0.005
COPPER	mg/L (ppm)		0.65	< 0.005
IRON	mg/L (ppm)		5.0	< 0.05
LEAD	mg/L (ppm)		0.0075	< 0.005
MANGANESE	mg/L (ppm)		0.15	< 0.005
MERCURY	mg/L (ppm)		0.002	< 0.0005
NICKEL	mg/L (ppm)		0.1	< 0.005
SELENIUM	mg/L (ppm)		0.05	< 0.010
SILVER	mg/L (ppm)		0.05	< 0.005
THALLIUM	mg/L (ppm)		0.002	< 0.010
VANADIUM	mg/L (ppm)		0.049	< 0.01
ZINC	mg/L (ppm)		5.0	< 0.1
RADIUM 226	pCi/L		20.0	< 3.10 ± 0.22
RADIUM 228	pCi/L		20.0	< 2.16 ± 0.38

mg/L = ppm = parts per million < = results are less than detection limit of method pCi/L = picocuries per liter

EXHIBIT 6

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

November 04, 2022

ASTM Lime Sludge Results

Ms. Megan Luers
AURORA, CITY OF
44 E. Downer Place
Aurora, IL 60507

Project ID: 295284, Annual Lagoon Sludge
First Environmental File ID: 22-7304
Date Received: September 27, 2022

Dear Ms. Megan Luers:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922022-8: effective 02/10/2022 through 02/28/2023.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Joy Geraci
Project Manager

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

AURORA, CITY OF

Lab File ID: **22-7304**

Project ID: **295284, Annual Lagoon Sludge**

Date Received: **September 27, 2022**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

First Environmental Laboratories, Inc.
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Case Narrative

AURORA, CITY OF

Lab File ID: **22-7304**

Project ID: **295284, Annual Lagoon Sludge**

Date Received: **September 27, 2022**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
22-7304-001	Sludge 4	9/24/2022 9:00

Sample Batch Comments:

Sample acceptance criteria were met.

The following analyses have been subcontracted to the indicated laboratory:

Analysis	Subcontractor:
Radium 226 & 228, ASTM	*ATI MIDWEST LABORATORY Northbrook, IL*

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: 295284, Annual Lagoon Sludge
Sample ID: Sludge 4
Sample No: 22-7304-001

Date Collected: 09/24/22
Time Collected: 9:00
Date Received: 09/27/22
Date Reported: 11/04/22

Analyte	Result	R.L.	Units	Flags
ASTM Extraction **Method: D3987-85**				
Analysis Date: 10/11/22				
Analyzed By: TRG				
ASTM Extraction	Complete			
Metals, ASTM Extract D3987 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/13/22		Preparation Date: 10/12/22		
Analyzed By: KJM		Prepped By: KJM		
Antimony	< 0.006	0.006	mg/L	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Boron	0.10	0.05	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.005	0.005	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.05	0.05	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.005	0.005	mg/L	
Nickel	< 0.005	0.005	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Thallium	< 0.010	0.010	mg/L	
Vanadium	< 0.01	0.01	mg/L	
Zinc	< 0.1	0.1	mg/L	
Mercury, ASTM Extract D3987 **Method: 7470A**				
Analysis Date: 10/12/22				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
Radium 226 & 228, ASTM D3987 **Method: 903.1/Ra-05**				
Analysis Date: 10/31/22				
Analyzed By: ATI				
Radium 226	3.10+/-0.22		pCi/L	N S
Radium 228	2.16+/-0.38		pCi/L	N S

LRM0038

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

1600 Shore Road, Suite D
Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: info@firstenv.com
IEPA Accreditation #100292

Company Name: CITY OF AURORA WTP			
Street Address: 44 E DOWNER PL			
City: AURORA		State: IL	Zip: 60505
Phone: 6302563255	Fax: 6302563259	e-Mail: LuersM@aurora.il.us	
Send Report To: Megan Luers		Via Fax: ☐	Via e-Mail: ☒
Sampled By: Daniel Hernandez			

Project I.D.: ANNUAL LAGOON SLUDGE
P.O. #: 295284

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix	SEE ATTACHED	Comments	Lab I.D.
09/27/2022 09:00AM	SLUDGE 4	Other	✓	22-7304-001	
		Other			

FOR LAB USE ONLY:
Cooler Temperature:0.1-6°C Yes ✓ No 2.3 °C
Received within 6 hrs of collection: ✓
Ice Present: Yes ✓ No
Sample Refrigerated: Yes ___ No ___
Refrigerator Temperature: ___ °C
Containers Received Preserved: Yes ___ No ___
5035 Vials Frozen: Yes ___ No ___
Freezer Temperature: ___ °C

Notes and Special Instructions:
PLEASE ADD CALCIUM, MAGNESIUM AND RADIUM TO THE ANALYSIS. Results on a dry weight basis

Relinquished By:	Date/Time: 9-27-22 / 14:00	Received By:	Date/Time: 9/27/22 14:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

ev 1/07

EXHIBIT 7

This content is from the eCFR and is authoritative but unofficial.

Title 40 —Protection of Environment
Chapter I —Environmental Protection Agency
Subchapter I —Solid Wastes
Part 261 —Identification and Listing of Hazardous Waste
Subpart C —Characteristics of Hazardous Waste

Authority: 42 U.S.C. 6905, 6912(a), 6921, 6922, 6924(y) and 6938.
Source: 45 FR 33119, May 19, 1980, unless otherwise noted.

§ 261.24 Toxicity characteristic.

(a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in § 260.11 of this chapter, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.

(b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table 1 which corresponds to the toxic contaminant causing it to be hazardous.

TABLE 1 —MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC

EPA HW No. [1]	Contaminant	CAS No. [2]	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0

[1] *Hazardous waste number.*

[2] *Chemical abstracts service number.*

[3] *Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.*

[4] *If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.*

EXHIBIT 7

EPA HW No. [1]	Contaminant	CAS No. [2]	Regulatory Level (mg/L)
D023	o-Cresol	95-48-7	[4] 200.0
D024	m-Cresol	108-39-4	[4] 200.0
D025	p-Cresol	106-44-5	[4] 200.0
D026	Cresol		[4] 200.0
D016	2,4-D	94-75-7	10.0
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	[3] 0.13
D012	Endrin	72-20-8	0.02
D031	Heptachlor (and its epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	[3] 0.13
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	[3] 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4,5-TP (Silvex)	93-72-1	1.0

[1] Hazardous waste number.

[2] Chemical abstracts service number.

[3] Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

[4] If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

EPA HW No. [1]	Contaminant	CAS No. [2]	Regulatory Level (mg/L)
D043	Vinyl chloride	75-01-4	0.2

[1] Hazardous waste number.

[2] Chemical abstracts service number.

[3] Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

[4] If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

[55 FR 11862, Mar. 29, 1990, as amended at 55 FR 22684, June 1, 1990; 55 FR 26987, June 29, 1990; 58 FR 46049, Aug. 31, 1993; 67 FR 11254, Mar. 13, 2002; 71 FR 40259, July 14, 2006]

EXHIBIT 8

N
W
E
S

0 120 180 240
Feet

LEGEND

- Property Line
- Extent of Mining (Breast)
- Extent of Mining (Bench)
- Existing Pillars
- Underground Ramp
- Mine Slope Portal
- Ventilation Shaft
- Existing Backfill
- Underground Surge Pile
- Proposed Structure

Lime Sludge Deposition

- Current Year 1st Lift
- Current Year 2nd Lift
- Prior Year 1st Lift
- Prior Year 2nd Lift

EXHIBIT 8

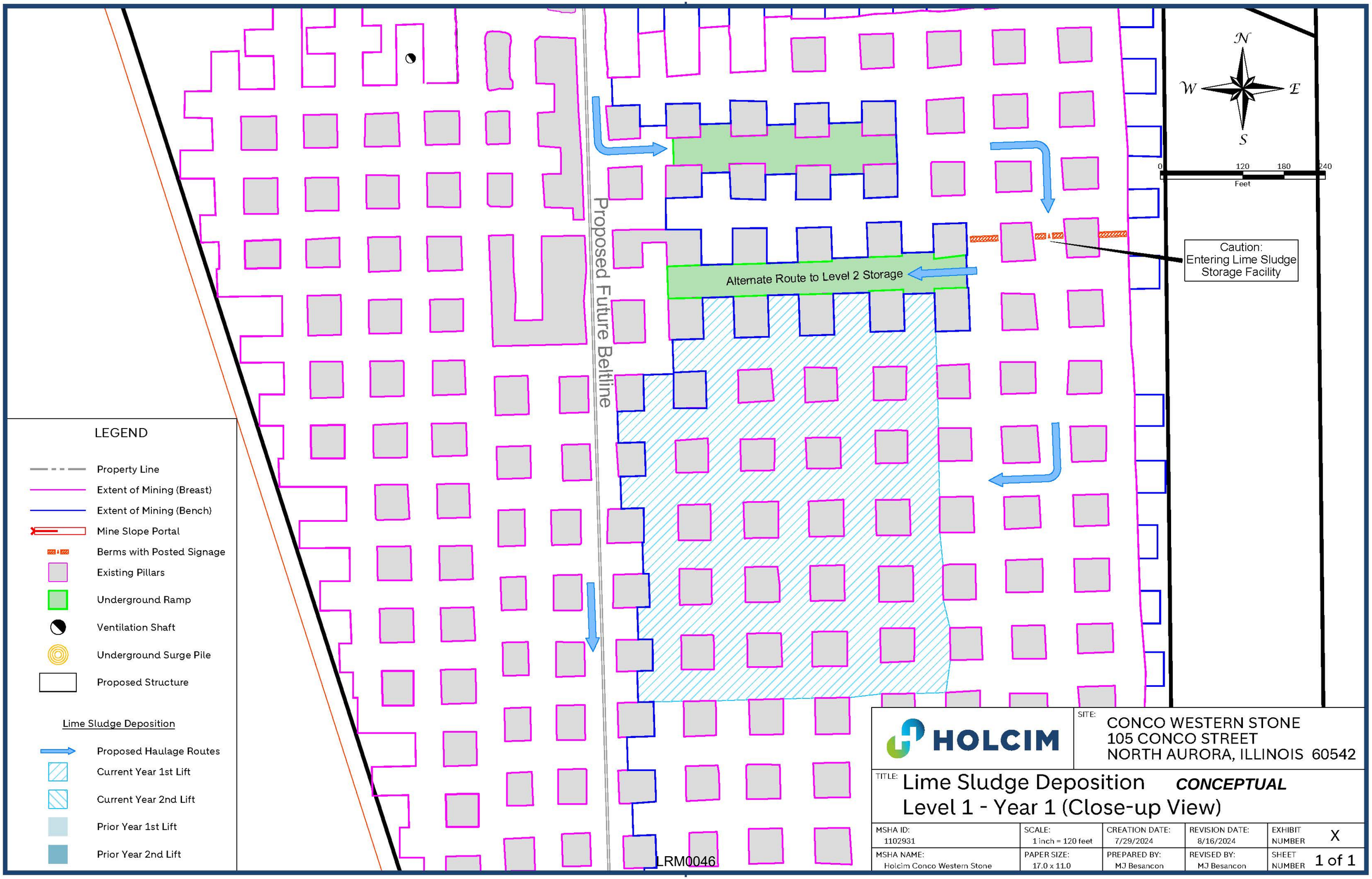
LRM0045

LAFARGE

SITE: CONCO WESTERN STONE
105 CONCO STREET
NORTH AURORA, IL 60542

TITLE: Lime Sludge Deposition
Level 2 - Year 10

MSHA ID: 1102931	SCALE: 1 inch = 120 feet	CREATION DATE: 8/25/2020	REVISION DATE: 9/21/2020	EXHIBIT NUMBER X
MSHA NAME: CONCO WESTERN STONE	PAPER SIZE: 25.5 x 44.0	PREPARED BY: INI MJ BESANCON	REVISED BY: INI MJ BESANCON	SHEET NUMBER 1 of 1



HOLCIM

SITE:
CONCO WESTERN STONE
105 CONCO STREET
NORTH AURORA, ILLINOIS 60542

TITLE: Lime Sludge Deposition ***CONCEPTUAL***
Level 1 - Year 1 (Close-up View)

MSHA ID:	SCALE:	CREATION DATE:	REVISION DATE:	EXHIBIT NUMBER
1102931	1 inch = 120 feet	7/29/2024	8/16/2024	X
MSHA NAME:	**PAPER SIZE:**	**PREPARED BY:**	**REVISED BY:**	**SHEET NUMBER**
Holcim Conco Western Stone	17.0 x 11.0	MJ Besancon	MJ Besancon	1 of 1

E:\Conco\Lime Sludge and Screenings Deposition 10-year Plan\Level 1 Deposition Plan - 2024.dwg

EXHIBIT 9

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

February 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for January 2023. This report includes all land application work done by Stewart Spreading for January 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: January 2023

Billie M Marks

Name	Date	Telephone
	2/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/20/22		Preparation Date: 07/20/22			
Analyzed By: KJM		Prepped By: KJM			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/19/22		Preparation Date: 07/18/22			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Jan-23**

Biosolids Field Record

KE Seth Sleezer 65

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	329.62	33.49	110.39
Total			329.62		110.39

Biosolids Field Record

KE Swenson 23

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	141.35	33.49	47.34
Total			141.35		47.34

Biosolids Field Record

KE Stewart 4

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	356.56	33.49	119.41
1/10/2023	1/10/2023	City of Aurora - Lime	340.56	35.63	121.34
Total			697.12		240.75

Biosolids Field Record

KE Hudson Lake 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/10/2023	1/10/2023	City of Aurora - Lime	722.93	35.63	257.58
1/11/2023	1/11/2023	City of Aurora - Lime	753.07	38.94	293.25
Total			1476.00		550.83

Seth Sleezer

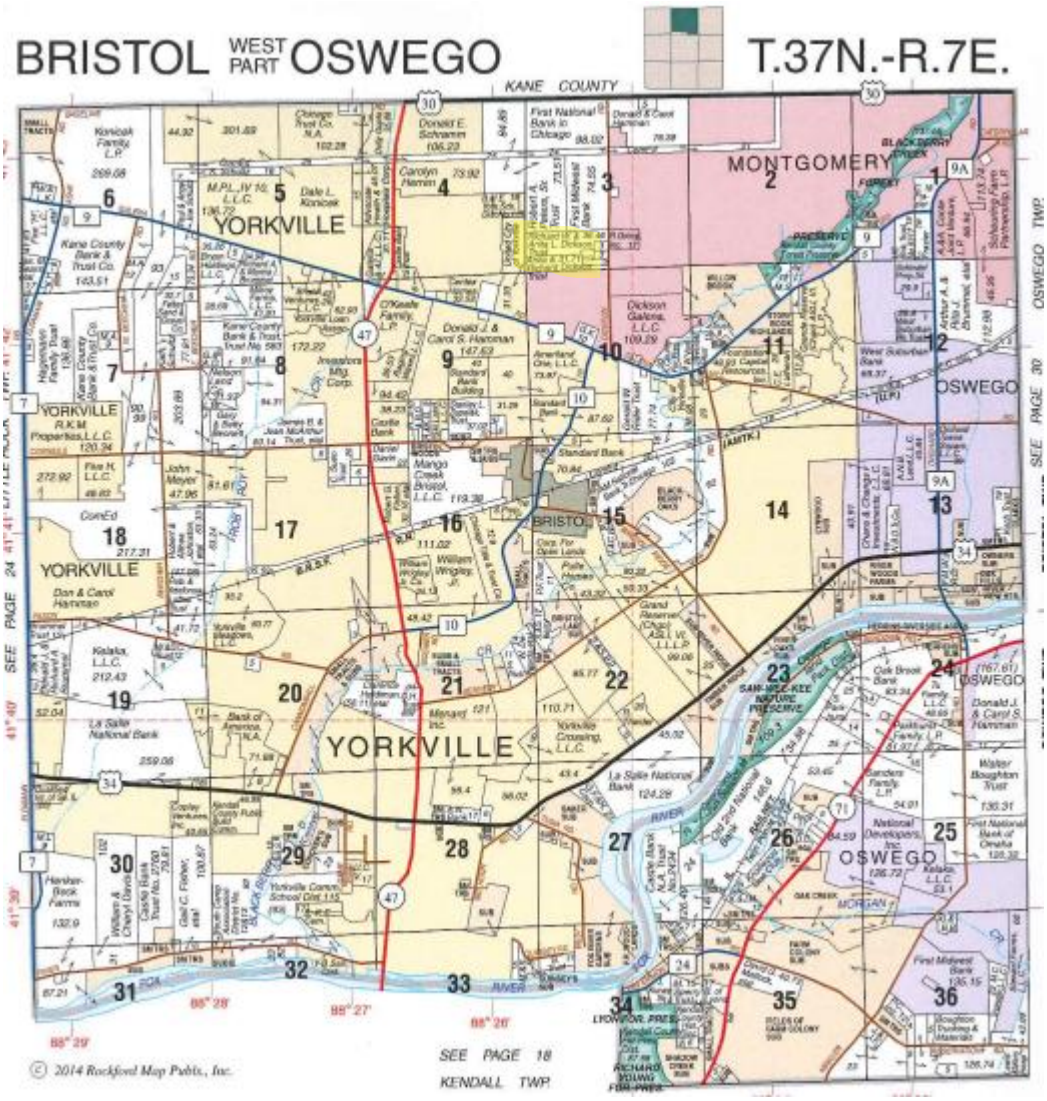
Sleezer 65

61 acres

Kendall County

Bristol Township

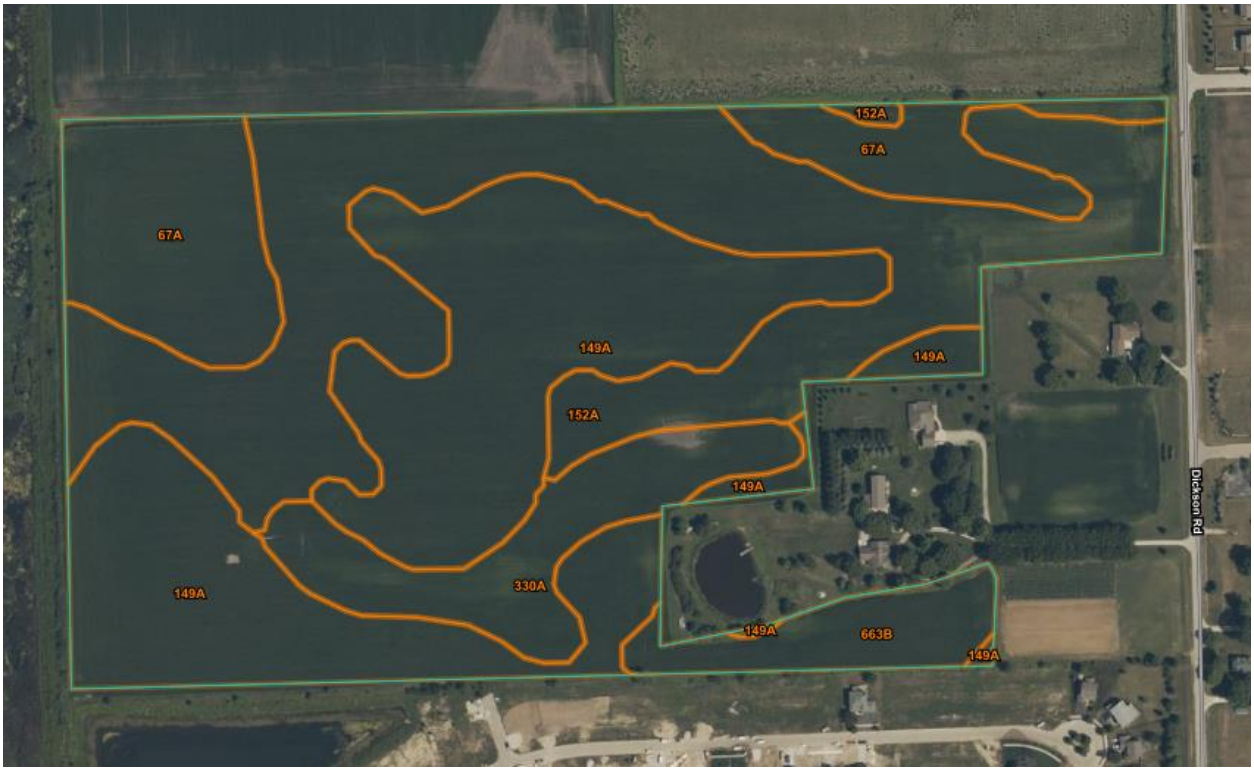
Section 3



Seth Sleezer

Sleezer 65
61 acres
Kendall County
Bristol Township
Section 3

67A	Harpster silty clay loam, 0 to 2 percent slopes	8.7	14.1%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	23.1	37.1%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	22.2	35.8%	0.60 to 2.00 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	5.3	8.5%	0.20 to 0.60 in/hr
663B	Clare silt loam, 2 to 5 percent slopes	2.8	4.5%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Seth Sleezer 65
ACREAGE: 61
COUNTY: Kendall
TOWNSHIP: Bristol
SECTION: 3

FARMER: Seth Sleezer
ADDRESS: 7214 Caton Farm Road
Yorkville, IL 60560

Source of biosolids
1 Aurora Lime
2
3
4

Metal Loadings in Pounds per Acre

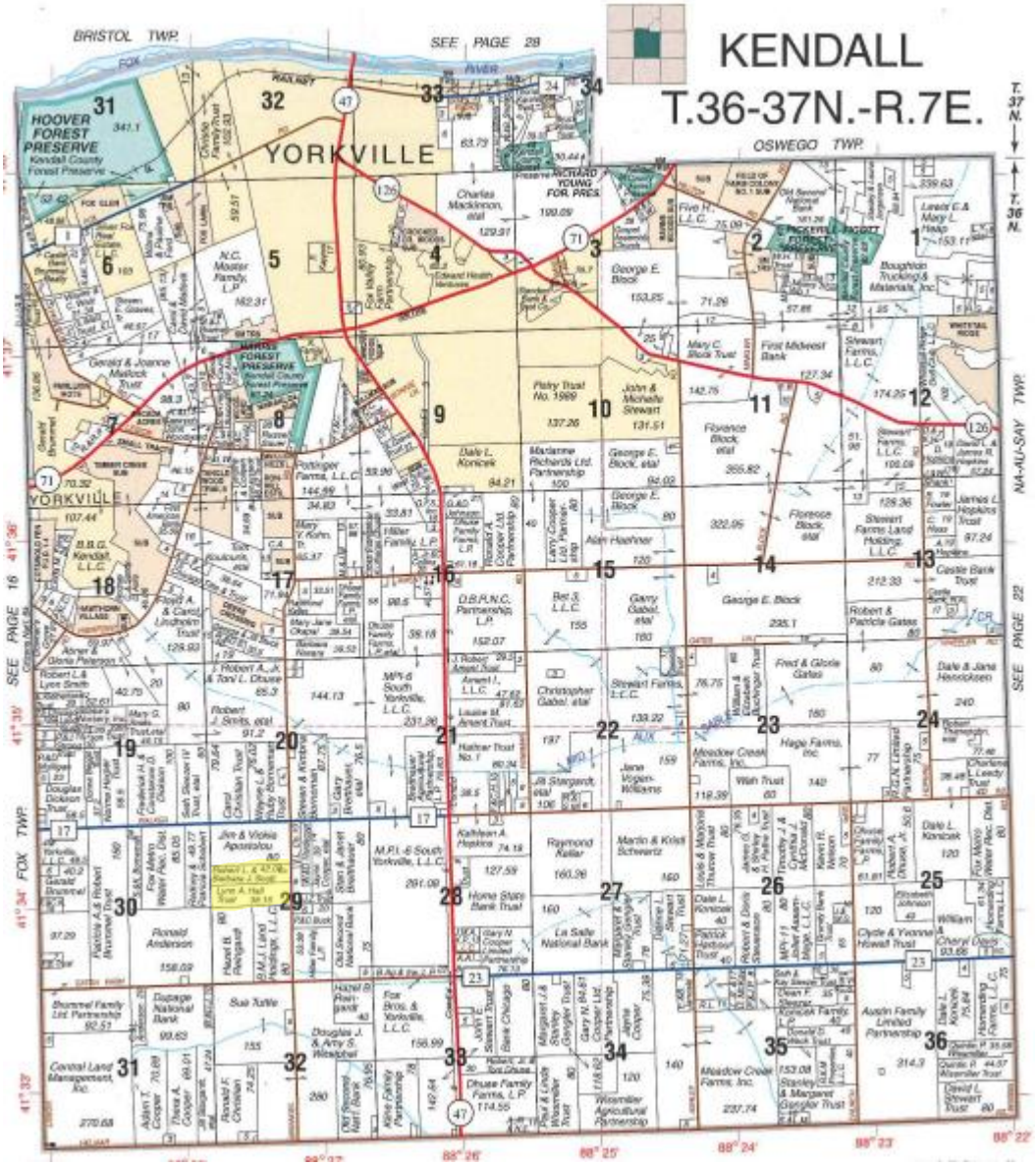
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**Dec-22**	0.003	0.039	0.430	0.018	0.003	0.064	0.000	0.000	0.000	0.000	0.007	5.38 pci/g
2	**Jan-23**	0.002	0.026	0.289	0.012	0.002	0.043	0.000	0.000	0.000	0.000	0.005	5.38 pci/g
2													
3													
4													
	TOTAL	0.01	0.07	0.72	0.03	0.01	0.11	0	0	0	0	0.012	pci/g
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0		

1	Background Radium	0.870	pci/g
2	Site Limit	1.870	pci/g
3	Cumulative Total to Date	0.882	pci/g
4	% of Total Cumulative Limit	47.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Claire Swenson
13620 Lisbon Road
Newark IL 60541
815-736-6163

KE Swenson 23
70 Acres
Kendall County
Kendall Township
Section 29



Claire Swenson
13620 Lisbon Road
Newark IL 60541
815-736-6163

KE Swenson 23
70 Acres
Kendall County
Kendall Township
Section 29

59A	Lisbon silt loam, 0 to 2 percent slopes	6.3	16.4%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	18.8	48.6%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.1	0.4%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	13.4	34.7%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 23
ACREAGE: 70
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 29

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon Rd
Newark, IL 60541
815-736-6163

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	January-23	0.001	0.01	0.11	0.005	0.001	0.016	0	0	0	0	0.0020	5.38 pci/g			141.35	47.34
TOTAL		0	0.01	0.11	0.01	0	0.02	0	0	0	0	0.002	pci/g				
%of LIMIT		0	0	0	0	0	0	0	0	0	0						

1	Background Radium	0.000	pci/g
2	Site Limit	0.000	pci/g
3	Cumulative total to Date	0.000	pci/g
4	% of Total Cumulative Limit		%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

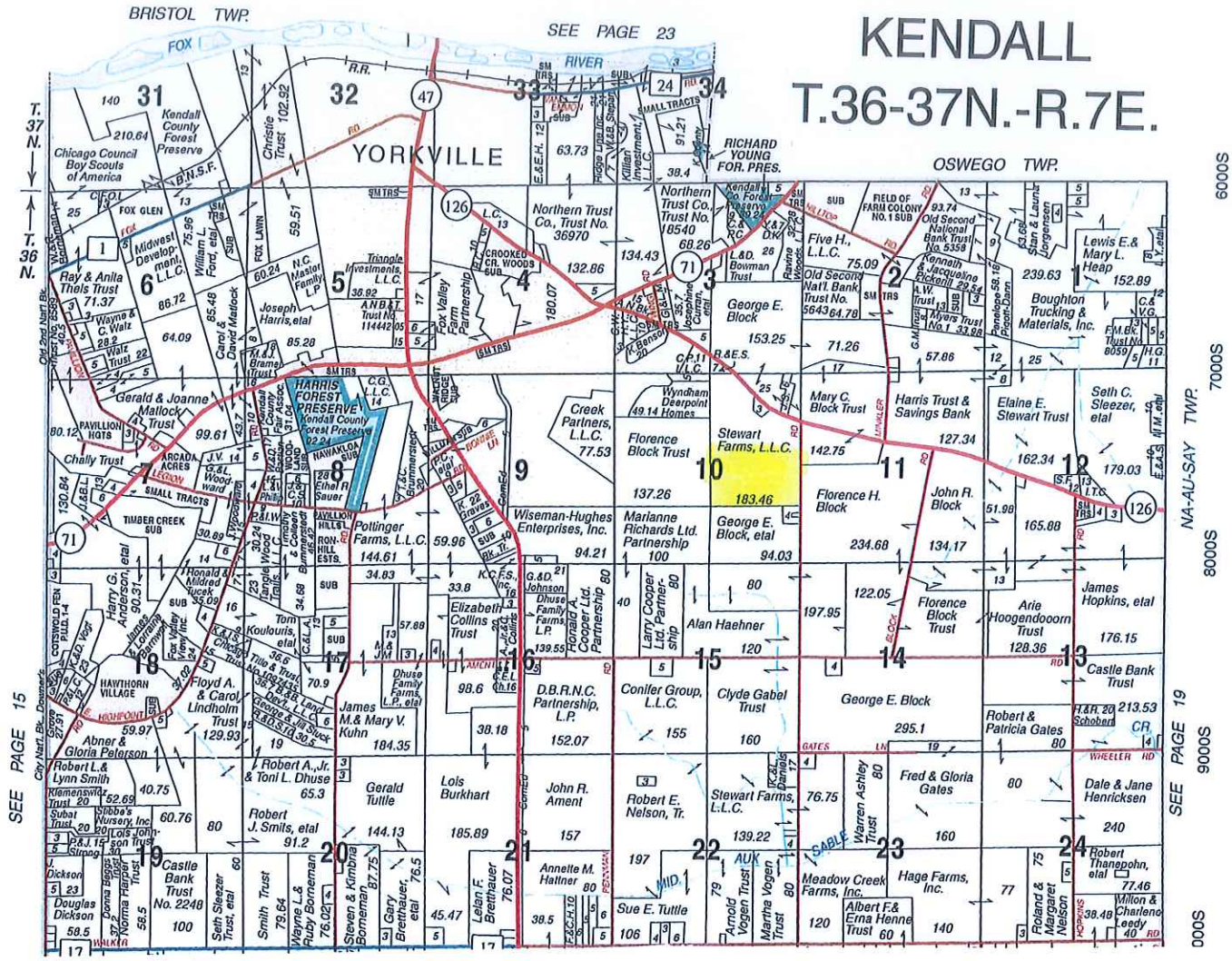
PI

Stewart SPREADING

Plat Map

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10


KENDALL
T.36-37N.-R.7E.
BRISTOL TWP.
SEE PAGE 23
YORKVILLE
OSWEGO TWP.
NA-AU-SAY TWP.
SEE PAGE 15
SEE PAGE 19
T. 37 N.
T. 36 N.
6000S
7000S
8000S
9000S
000S
FOX RIVER
Chicago Council Boy Scouts of America
Kendall County Forest Preserve
HARRIS FOREST PRESERVE Kendall County Forest Preserve
RICHARD YOUNG FOR. PRES.
Northern Trust Co., Trust No. 36970
Northern Trust Co., Trust No. 18540
Five H., L.L.C.
George E. Block
Florence Block Trust
Stewart Farms, L.L.C.
Mary C. Block Trust
Harris Trust & Savings Bank
Florence H. Block
John R. Block
Elaine E. Stewart Trust
Seth C. Sleezer, etal
Lewis E.& Mary L. Heap
Boughton Trucking & Materials, Inc.
Creek Partners, L.L.C.
Wyndham Deerpoint
Wiseman-Hughes Enterprises, Inc.
Marianne Richards Ltd. Partnership
George E. Block, etal
Alan Haehner
Larry Cooper Ltd. Partnership
Ronald A. Cooper Ltd. Partnership
Elizabeth Collins Trust
Poltinger Farms, L.L.C.
Coniler Group, L.L.C.
Clyde Gabel Trust
George E. Block
Florence Block Trust
Arie Hoogendoorn Trust
James Hopkins, etal
Castle Bank Trust
Robert & Patricia Gates
Dale & Jane Henricksen
Fred & Gloria Gates
Stewart Farms, L.L.C.
Robert E. Nelson, Tr.
John R. Ament
Lois Burkhart
Gerald Tuttle
Annette M. Hattner
Sue E. Tuttle
Meadow Creek Farms, Inc.
Hage Farms, Inc.
Albert F.& Erna Henne Trust
Robert Thanepohn, etal
Roland & Margaret Nelson
Willon & Charleno Leedy
Arnold Vogen Trust
Martha Vogen Trust
Warren Ashley Trust
Gerald & Joanne Mallock Trust
Chally Trust
Ray & Anita Thels Trust
Midwest Development, L.L.C.
Carol & David Matlock
Joseph Harris, etal
Triangle Investments, L.L.C.
Fox Valley Farm Partnership
N.C. Master Family L.P.
Christie Trust
Kendall County Forest Preserve
Timber Creek Sub
Hawthorn Village
Pavilion Hills Estates
Arcadia Acres
Crooked Cr. Woods Sub
Fox Glen
Fox Lawn
Harry G. Anderson, etal
Floyd A. & Carol Lindholm Trust
Abner & Gloria Peterson
Robert L.& Lynn Smith
Castle Bank Trust No. 2248
Douglas Dickson
Seth Sleezer Trust, etal
Smith Trust
Wayne L.& Ruby Bornemann
Steven & Kimbra Bornemann
Gary Brethauer, etal
Lelan F. Brethauer
Robert J. Smits, etal
Tom Koulouris, etal
Ronald & Mildred Tucek
James M.& Mary V. Kuhn
Robert A., Jr. & Toni L. Dhuse
Dhuse Family Farms, L.P., etal
D.B.R.N.C. Partnership, L.P.
Ronald A. Cooper Ltd. Partnership
Larry Cooper Ltd. Partnership
Stewart Farms, L.L.C.
Meadow Creek Farms, Inc.
Hage Farms, Inc.
Old Second Nat'l Bank Trust No. 5643
Old Second National Bank Trust No. 5358
Kennath & Jacqueline Pickerill
Penelope
Myers Trust No. 1
Seth C. Sleezer, etal
Lewis E.& Mary L. Heap
Boughton Trucking & Materials, Inc.
Florence H. Block
John R. Block
Florence Block Trust
Arie Hoogendoorn Trust
James Hopkins, etal
Castle Bank Trust
Robert & Patricia Gates
Dale & Jane Henricksen
Fred & Gloria Gates
Robert Thanepohn, etal
Roland & Margaret Nelson
Willon & Charleno Leedy
Meadow Creek Farms, Inc.
Hage Farms, Inc.
Albert F.& Erna Henne Trust
Arnold Vogen Trust
Martha Vogen Trust
Warren Ashley Trust
Stewart Farms, L.L.C.
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Christie Trust
Kendall County Forest Preserve
Chicago Council Boy Scouts of America
Midwest Development, L.L.C.
Carol & David Matlock
Joseph Harris, etal
Ray & Anita Thels Trust
Gerald & Joanne Mallock Trust
Chally Trust

Soil Series

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10

Soil Series & Texture		Percent Slopes	Permeability
59A	Lisbon silt loam	0 to 2 percent slopes	.06 - .60 on/hr
60C2	La Rose silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
60C3	La Rose clay loam	5 to 10 percent slopes, severely eroded	.06 - .60 on/hr
145B	Saybrook silt loam	2 to 5 percent slopes	.06 - .60 on/hr
145C2	Saybrook silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
356A	Elpaso silty clay loam	0 to 2 percent slopes	.20 - .60 on/hr



METAL LOADING RECORD

SITE NUMBER: KE Stewart 4
ACREAGE: 60
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 10

FARMER: John Stewart
ADDRESS: 3870 North Route 71
Sheridan, IL 60551
PHONE #: 815-695-1460

Metal Loadings in Pounds per Acre

Source of biosolids
1 Aurora - Lime
2 MWRDGC - Egan
3 LASMA - Marathon
4 Glenbard
5 Marseilles
6 DuPage
7 Lasma-Lagoon 28
8 Lasma-Lagoon 29
9 Lasma Lagoon 30
10 Lasma Lagoon 24
11 Plainfield

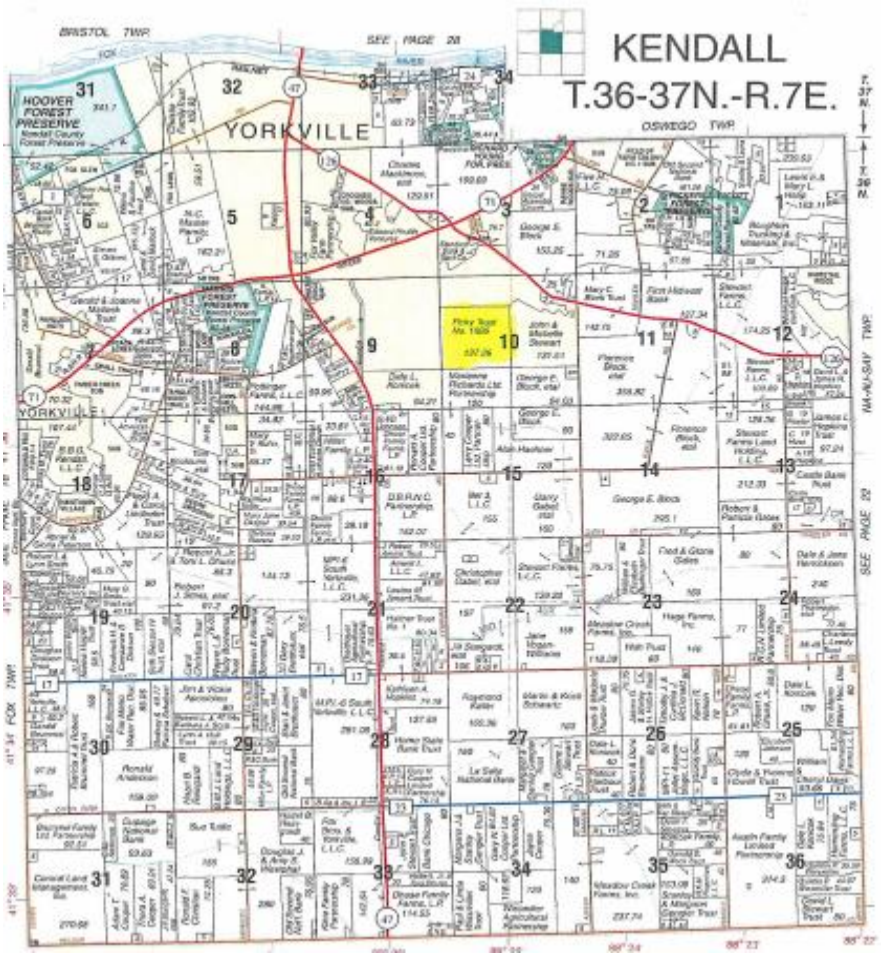
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	Lab Result pci/g
1	11/27/2012	0.000	0.053	1.480	0.060	0.015	0.370					0.022	pci/g			649.2	251.31	11.1
2	June 2013	0	1.97	1.83	0.18	0.1	2.04	0.02	0	0.02	0.02					666.34	162.39	
2	July 2013	0	2.41	2.12	0.19	0.11	2.55	0.02	0	0.02	0.03					841.4	201.18	
3	July 2013	0.05	7.36	8.12	0.73	1.91	14.52	0.08	0.02	0.08	0.17					2343.39	864.71	
4	Jun-15	0	0.93	0.21	0.02	0.04	0.94	0.001	0.002	0.09	0.09				560		86.05	
5	Jun-15	0.01	1.26	11.1	0.04	0.11	1.47	0.0198	0.0036	0.04	0.01	0.018			309		78.70	
6	July 2015	0.01	2.82	1.98	0.08	0.1	3.32	0.02	0.01	0.02	0.04				1350		168.87	
6	Aug 2015	0	0.68	0.64	0.02	0.04	0.87	0	0	0	0.01				350		48.44	
7	Nov 2016	0.05	4.95	3.97	0.55	1.44	10.57	0.07	0.01	0.06	0.12					2566.92	608.36	
8	Nov 2016	0.010	0.910	0.680	0.090	0.210	1.870	0.010	0.000	0.010	0.16					516.02	110.43	
8	Aug 2018	0.050	5.030	5.730	0.550	1.160	10.330	0.130	0.010	0.130	0.180					2684.10	664.31	
9	Oct 2019	0.080	10.170	13.120	1.000	2.200	19.990	0.310	0.010	0.100	0.290					2277.18	633.06	
10	Sept 20	0.110	12.580	14.080	1.280	2.780	24.530	0.420	0.020	0.140	0.390					2454.82	819.91	
11	September 21	0.014	1.070	0.620	0.060	0.020	1.460	0.020	0.001	0.020	0.030				756		101.92	
8	September 21	0.030	5.060	6.380	0.450	0.870	8.850	0.110	0.000	0.110	0.160					1453	344.36	
1	March 22	0.007	0.032	0.846	0.029	0.007	0.076	0.000	0.000	0.000	0.000	0.005				417.37	162.68	
1	January 2023	0.004	0.058	0.642	0.027	0.004	0.095	0.000	0.000	0.000	0.000	0.011	5.38 pci/g			697.12	240.75	
	TOTAL	0.420	57.290	72.910	5.330	11.110	103.760	1.230	0.090	0.840	1.700	0.056	pci/g					
	%of LIMIT	4.2	22.9	8.1	5.3	1.1	20.8	1.2	0.7	10.5	10.6							

1	Background Radium	1.470	pci/g
2	Site Limit	2.470	pci/g
3	Cumulative Total to Date	1.526	pci/g
4	% of Total Cumulative Limit	61.78	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

John Stewart
3870 Rt 71
Sheridan IL 60551
815-695-5667

KE Hundson Lake 1
123 Acres
Kendall County
Kendall Township
Section 10



John Stewart
3870 Rt 71
Sheridan IL 60551
815-695-5667

KE Hundson Lake 1
123 Acres
Kendall County
Kendall Township
Section 10

59A	Lisbon silt loam, 0 to 2 percent slopes	13.8	9.5% 0.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.1	12.4% 0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	32.4	22.2% 0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	56.8	38.9% 0.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	0.4	0.2% 0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	24.5	16.8%0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER:	KE Hudson Lake 1	COUNTY:	Kendall	
ACREAGE:	123	TOWNSHIP:	Kendall	
		SECTION:	10	
FARMER:	John Stewart			
ADDRESS:	3870 N. Rt 71			
	Sheridan, IL 60551			
PHONE #:	815-695-5667			

Source of biosolids

1 Lasma Lagoon 28
2 Lasma cell 5
3 Aurora Lime
4 Calumet East 2
5 Lasma Lagoon 28
6 Lasma Lagoon 29
7

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.020	3.910	4.490	0.430	0.700	6.600	0.100	0.000	0.090	0.13					2579.55	523.65
2	5/1/2021	0.03	4.58	6.51	0.44	1.02	9.18	0.22	0	0.11	0.15	0.000				2417.97	660.11
3	5/1/2021	0.023	0.092	1.872	0.087	0.023	0.223	0	0	0	0	0.019	6.25 pci/g			1669.71	719.39
1	Oct-21	0.02	1.74	2.04	0.18	0.35	3.5	0.04	0	0.04	0.07					1100.42	242.09
3	Oct-21	0.004	0.02	0.527	0.018	0.004	0.048	0	0	0	0	0.003	3.57 pci/g			569.59	207.5
4	Aug-22	0	0.5	1.53	0.04	0.09	1.36	0.01	0	0.01	0.02					279.73	74.13
5	Aug-22	0.03	3.71	4.68	0.4	0.71	7.22	0.1	0	0.1	0.12					2793.53	595.02
6	Aug-22	0.03	3.9	4.98	0.34	0.7	7.03	0.09	0	0.09	0.11					1976.89	575.27
3	Jan-23	0.005	0.066	0.722	0.031	0.005	0.107	0.000	0.000	0.000	0.000	0.012	pci/g			1476.00	550.83
	TOTAL	0.16	18.52	27.35	1.97	3.6	35.27	0.56	0	0.44	0.6	0.034	pci/g				
	%of LIMIT	1.6	7.4	3	2	0.4	7.1	0.6	0	5.5	3.7						

1	Background Radium	1.610	pci/g
2	Site Limit	2.610	pci/g
3	Cumulative Total to Date	1.644	pci/g
4	% of Total Cumulative Limit	62.99	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

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LRM0066

KE Seth Sleezer 65
02-03-300-019
02-03-300-016
Sent 3/16/2023

DEAN BRIAN & EVE PARKER
3324 BIG BEND RD
MONTGOMERY, IL, 60538

WILLIAM G & SANDRA M MUELLER
3320 BIG BEND DR
MONTGOMERY, IL, 60538

DICKSON, ANITA LOUISE TR DICKSON, RICHARD WAYNE
927-B DICKSON RD
BRISTOL, IL, 60512

RYAN BOTICA
3392 BIG BEND DR
MONTGOMERY, IL, 60538

ROBERT CHARLES KRUS
3388 BIG BEND DR
MONTGOMERY, IL, 60538

MATTHEW W & ARINNE J DICKSON
927 DICKSON RD
BRISTOL, IL, 60512

ROBERT A PETERS SR, TRUST
12 HEATON CT
SUGAR GROVE, IL, 60554

FIRST MIDWEST BANK
2801 W JEFFERSON ST
JOLIET, IL, 60435

FOX VALLEY PARK DISTRICT
101 W ILLINOIS AVE
AURORA, IL, 60506

TERRY L & JOAN L BECKER
875 DICKSON RD
BRISTOL, IL, 60512

MATTHEW W & ARINNE J DICKSON
927 DICKSON RD
BRISTOL, IL, 60512

VILLAGE OF MONTGOMERY
200 N RIVER ST
MONTGOMERY, IL, 60538

HUNTINGTON CHASE HOMEOWNERS ASSOCIATION INC
1005 INTERNATIONAL PKWY STE 204
WOODRIDGE, IL, 60517

KAREN MARLENA PUCKETT
2551 VAN HORN ST
MONTGOMERY, IL, 60538

UNITED CITY OF YORKVILLE
800 GAME FARM RD
YORKVILLE, IL, 60560

3384 BIG BEND DR
MONTGOMERY, IL 60538
MONTGOMERY, IL, 60538

LAURA & MICHAEL S VASQUEZ
3380 BIG BEND DR
MONTGOMERY, IL 60538

BRANDIE RAE & TIMOTHY R RAAD
3376 BIG BEND DR
MONTGOMERY, IL, 60538

CALERO RUTH M PONCE GALLO JOSE LUIS PALOMINO SR &
3368 BIG BEND DR
MONTGOMERY, IL, 60538

DELOERA PAULO J AMY NICOLE L &
3364 BIG BEND DR
MONTGOMERY, IL, 60538

MCAULIFFE RICHARD R JR PONSOLLE RACHAEL N &
3360 BIG BEND DR
MONTGOMERY, IL, 60538

MICHAEL SR & CHRISTINE A STEINWAY
3356 BIG BEND DR
MONTGOMERY, IL, 60538

JAIME JR & LYDIA DIAZDELEON
3352 BIG BEND DR
MONTGOMERY, IL, 60538

MICHELLE A NAVARRO
3348 BIG BEND DR
MONTGOMERY, IL, 60538

CHRISTIAN D & MICHELE J EVANS
3344 BIG BEND DR
MONTGOMERY, IL, 60538

GHEORGHE MERIACRE
3340 BIG BEND DR
MONTGOMERY, IL, 60538

JOSE C & JULIA ZEPEDA
3336 BIG BEND DR
MONTGOMERY, IL, 60538

CARRILLO ADRIAN R GONZALEZ ALYSHA MEGAN &
3332 BIG BEND DR
MONTGOMERY, IL, 60538

MALLORY & DAVID HUBER
3328 BIG BEND DR
MONTGOMERY, IL, 60538

KE Swenson 23		12/15/22 3/15/2023
PIN	Kendall County Health Deparment 811 John St, Yorkville, IL 60560	Kevin Kunkel Highway Commissioner 14492 Lisbon Road Newark, IL 60545
BRUMMEL, GERALD LIV TR **10734 LISBON RD** **YORKVILLE, IL 60560**	4M YORKVILLE LLC, 1649 MONTGOMERY STE 1 AURORA, IL 60504	PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST 1308 SW 96TH ST GAINESVILLE, FL 32607
BRUMMEL, ROBERT TR & PATRICIA TR **10736 LISBON RD** **YORKVILLE, IL 60560**	HARPER THOMAS & KING HEATHER HARPER &, MO STEPHANY HARPER 2316 NW PINNACLE DR PORTLAND, OR 97229	DICKSON, FREDERICK H & CONSTANCE D 29 RIVERWOOD CT OSWEGO, IL 60543
KALA, FREDERICK N & CHRISTINA 10474 LISBON RD YORKVILLE, IL 60560	BRUMMEL FAMILY LTD PARTNERSHIP, 10734 LISBON RD YORKVILLE, IL 60560	BORNEMAN, STEVEN L & KIMBRIA LYNN 9618 IMMANUEL RD YORKVILLE, IL 60560
PUNKE, JAMES C & CONSTANCE K 10525 LISBON RD YORKVILLE, IL 60560	CHRISTIAN, WESLEY K 10609 LISBON RD YORKVILLE, IL 60560	ANDERSON, RONALD 9725 HELMAR RD NEWARK, IL 60541
BORNEMAN, CLYDE & ELEANOR 10327 LISBON RD YORKVILLE, IL 60560	GOMOLL, JOSEPH & JENNIFER 10151 LISBON RD YORKVILLE, IL 60560	PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST 1308 SW 96TH ST GAINESVILLE, FL 32607

KE Stewart 4

PIN
05-10-200-007

Sent 12.15.2022

Marianne Richards
9103 Ament Rd.
Yorkville, IL 60560

First Midwest Bank Trust & Investment
2801 W. Jefferson St.
Joliet, IL 60435

George Block E ET AL
2402 Benrus Blvd.
San AQntonio, TX 78228

Mary C Block Family TR
13 Long Crescent Dr.
Bristol, Virgina 24201

Kendall County Health Dept
811 John St,
Yorkville, IL 60560

KE Hudson Lake 1
05-10-100-003

12/15/2022

JOHN & MICHELLE STEWART
3870 N ILL RTE 71
SHERIDAN, IL, 60551

Kendall County HealtDept
811 W. John Street
Yorkville, IL 60560

RAINTREE VILLAGE
750 W LAKE COOK RD #190
BUFFALO GROVE, IL, 60089

MARIANNE LTD PTNRSHP
1012 VISTA CIR
FRANKLIN, TN, 37067

YORKVILLE SCHOOL DIST 115
602 A CENTER PKWY
YORKVILLE, IL, 60560

STEWART FARMS LAND HOLDING
LLC BLOCK FARM
9618 HOPKINS RD
YORKVILLE, IL, 60560

KONICEK DALE L LLC
6321 WALKER RD
YORKVILLE, IL, 60560

CALATLANTIC GROUP INC
1141 E MAIN ST STE 108
EAST DUNDEE, IL, 60118

% FOSTER PREMIER INC RAINTREE
VILLAGE HOMEOWNERS ASSOC
750 W LAKE COOK RD STE 190
BUFFALO GROVE, IL, 60089

MARK RUBINO
1804 N NAPERVILLE BLVD STE 200
NAPERVILLE, IL, 60563

UNITED CITY OF YORKVILLE
800 GAME FARM RD
YORKVILLE, IL, 60560

Doug Westphal
Highway Commissioner
9925 Route 47
Yorkville, IL 60560

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: February 2, 2022

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 65

6.) Size of Area Where Lime is to be Used: 61 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Seth Sherrill 2/2/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2022

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 23

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swenson 8/15/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2022

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Stewart 4

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 400 wet tons

Years Applied 2022

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2022

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Hudson Lake 1

6.) Size of Area Where Lime is to be Used: 123 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 2200 wet tons

Years Applied 2021

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

May 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for April 2023. This report includes all land application work done by Stewart Spreading for April 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: April 2023

Billie M Marks

Name	Date	Telephone
	5/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/20/22		Preparation Date: 07/20/22			
Analyzed By: KJM		Prepped By: KJM			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/19/22		Preparation Date: 07/18/22			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Apr-23**

Biosolids Field Record

KE Gates 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/10/2023	4/11/2023	City of Aurora - Lime	234.93	31.81	74.73
4/11/2023	4/11/2023	City of Aurora - Lime	955.14	42.11	402.21
Total			1190.07		476.94

Biosolids Field Record

LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/10/2023	4/14/2023	City of Aurora - Lime	866.54	31.81	275.65
4/11/2023	4/13/2023	City of Aurora - Lime	514.42	42.11	216.62
4/12/2023	4/13/2023	City of Aurora - Lime	66	48.21	31.82
4/13/2023	4/13/2023	City of Aurora - Lime	184.71	40.76	75.29
Total			1631.67		599.38

Biosolids Field Record

KE Dhuse 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/12/2023	4/12/2023	City of Aurora - Lime	774	31.92	247.06
4/12/2023	4/13/2023	City of Aurora - Lime	158.36	31.92	50.55
Total			932.36		297.61

Biosolids Field Record

KE Dhuse 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/12/2023	4/13/2023	City of Aurora - Lime	654.18	48.21	315.38
4/13/2023	4/13/2023	City of Aurora - Lime	21.98	40.76	8.96
Total			676.16		324.34

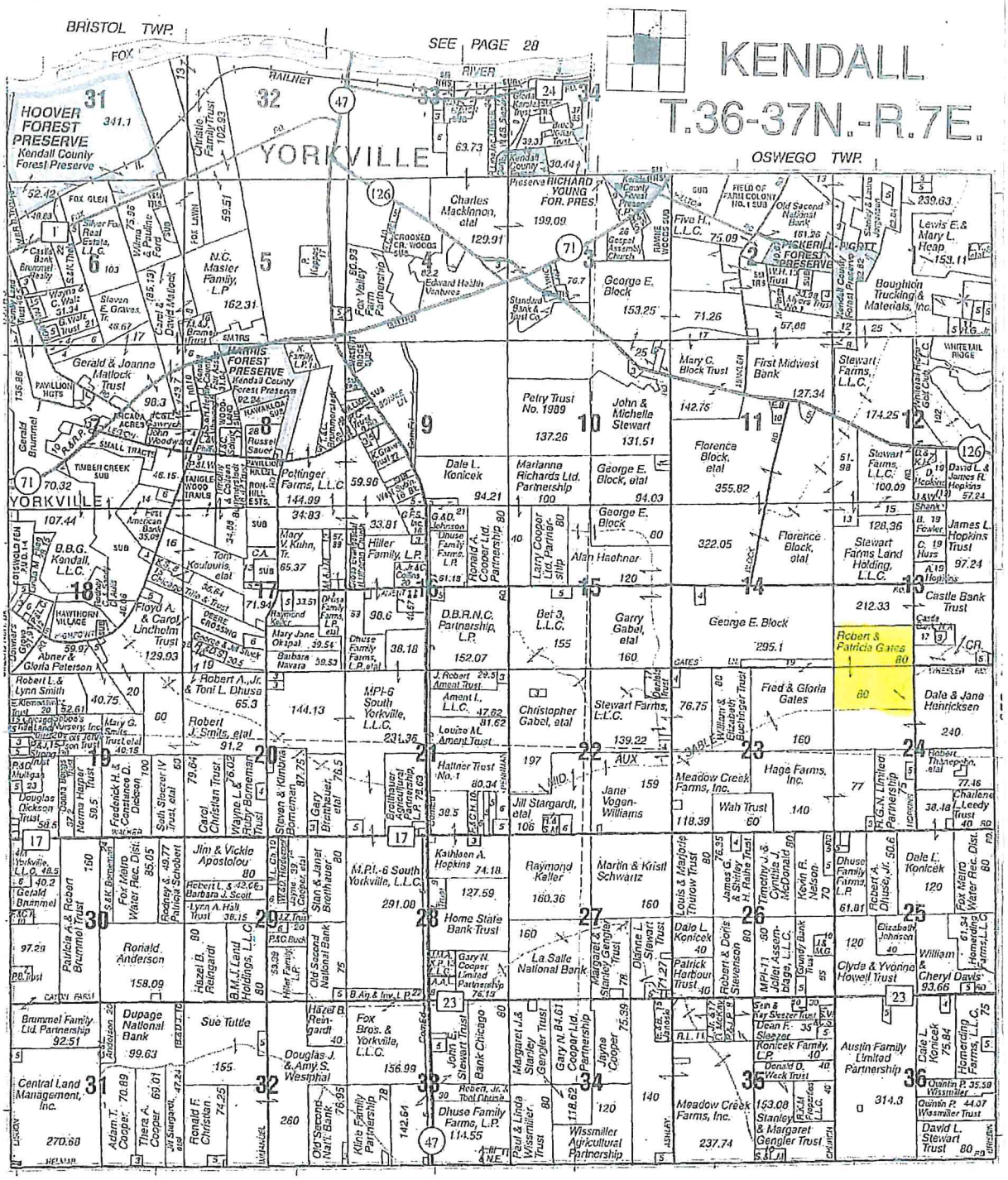
Biosolids Field Record

KE Seth Sleezer 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/13/2023	4/13/2023	City of Aurora - Lime	188.25	40.76	76.73
Total			188.25		76.73

Bob Gates
8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Field 2
145 Acres
Kendall County
Kendall Township
Sections 13 & 24



LRM0085

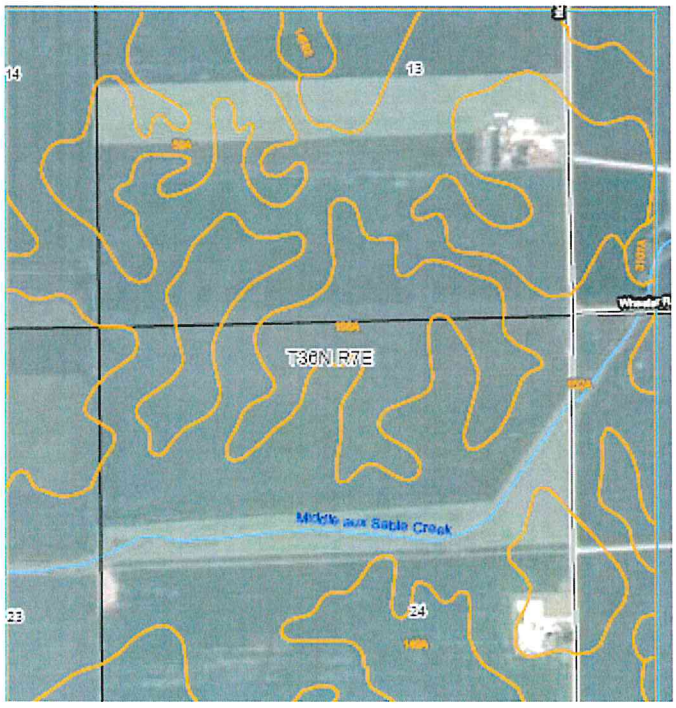
SOIL SERIES

Bob Gates
8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Field 2,
145 Acres
Kendall County
Kendall Township
Sections 13 & 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon, 59A	SiL	0-2 %	0.6-2.0 in/hr
Drummer, 152A	SiCL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiCL	0-2 %	0.6-2.0 in/hr

+



METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 145
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 13 and 24

FARMER: Bob Gates
ADDRESS: 8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Lasma Lagoon 29

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April-20	0.019	0.082	1.022	0.058	0.006	0.137	0	0	0	0	0.0100				1548	681.24
2	August-20	0.05	7.05	9.83	0.67	1.38	12.7	0.13	0.01	0.08	0.24					902.38	166.04
1	August-20	0.003	0.011	0.137	0.008	0.001	0.018	0	0	0	0	0.001	4.1 pci/g			307.99	91.9
2	Dec-20	0.020	3.720	4.420	0.350	0.840	7.040	0.100	0.010	0.040	0.120					2113.32	589.62
2	May-21	0.010	2.660	3.050	0.290	0.470	4.490	0.070	0.000	0.060	0.090					2045.92	415.32
3	Oct-21	0.020	2.390	2.750	0.250	0.440	4.430	0.060	0.000	0.060	0.090					1838.1	397.03
1	Apr-23	0.003	0.048	0.528	0.022	0.003	0.078	0.000	0.000	0.000	0.000	0.0090	5.38 pci/g			1190.07	476.94
	TOTAL	0.13	15.96	21.74	1.65	3.14	28.89	0.36	0.02	0.24	0.54	0.020	pci/g				
	%of LIMIT	1.3	6.4	2.4	1.7	0.3	5.8	0.4	0	3	3.4						

1	Background Radium	1.317	pci/g
2	Site Limit	2.317	pci/g
3	Cumulative total to Date	1.337	pci/g
4	% of Total Cumulative Limit	57.70	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart

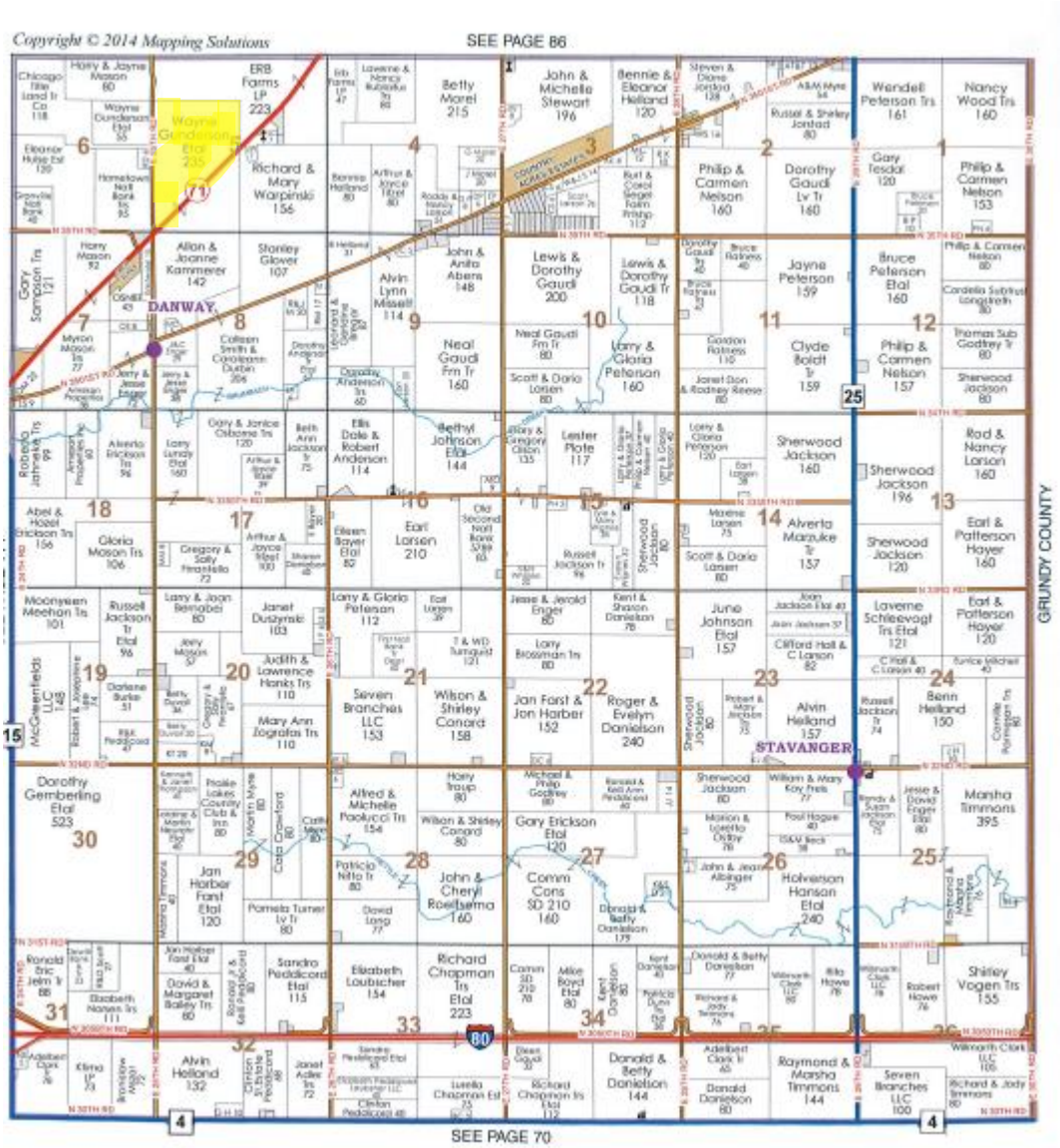
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
	TOTAL	0	0.07	0.72	0.03	0	0.11	0	0	0	0	0.012	pci/g				
	%of LIMIT	0	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.532	pci/g
4	% of Total Cumulative Limit	60.79	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dhuse

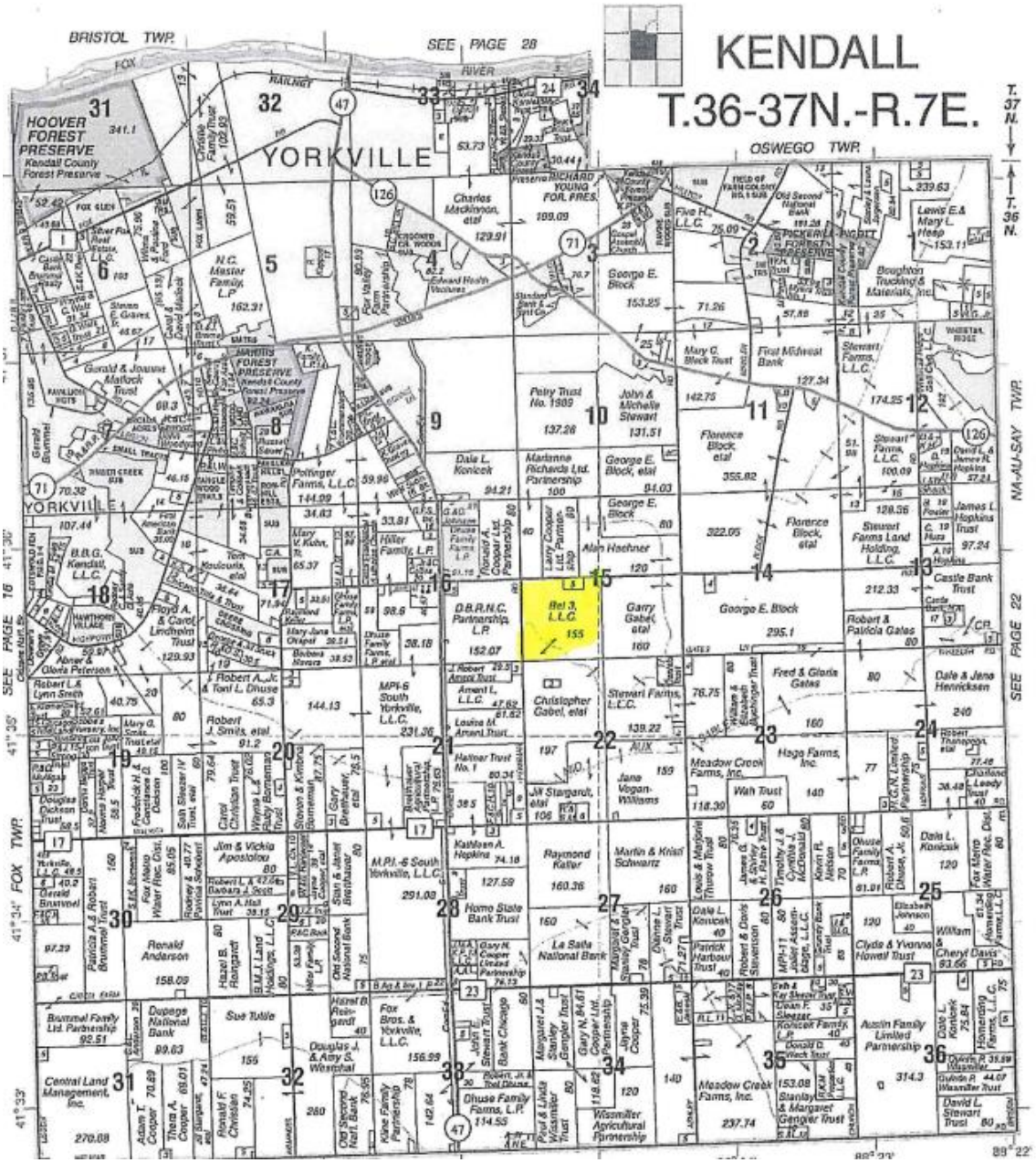
KE Dhuse 2

141 acres

Kendall County

Kendal Township

Section 15



Dhuse

KE Dhuse 2

141 acres

Kendall County

Kendal Township

Section 15

59A	Lisbon silt loam, 0 to 2 percent slopes	62.0	37.6%	0.20 to 0.60 in/hr
148A	Proctor silt loam, 0 to 2 percent slopes	6.0	3.7%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	14.3	8.7%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	55.9	33.8%	0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.4	5.7%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	17.5	10.6%	0.06 to 0.20 in/hr



Totals for Area of Interest 165.1 100.0%

METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 141
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 15

FARMER: Bob Dhuse
ADDRESS: 9095 Immanuel Road
Yorkville, IL 60560

Source of biosolids
1 Aurora Lime
2

Metal Loadings in Pounds per Acre

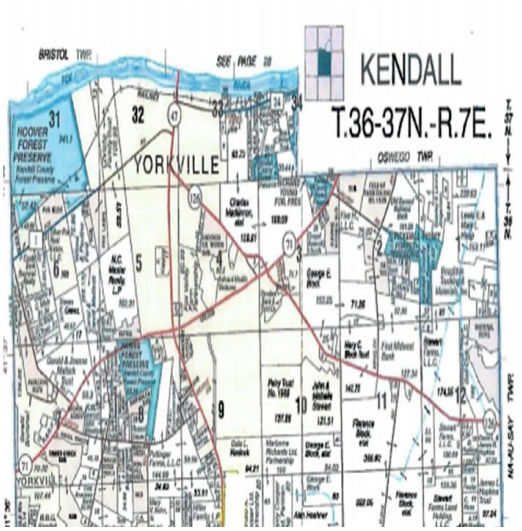
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.002	0.031	0.337	0.014	0.002	0.050	0.000	0.000	0.000	0.000	0.006				932.36	297.61
	TOTAL	0	0.03	0.34	0.01	0	0.05	0	0	0	0	0.006	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	2.120	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.126	pci/g
4	% of Total Cumulative Limit	70.87	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dhuse

KE Dhuse 5
Kendall County
88 Acres
Kendall Township
Section 16,17



Dhuse

KE Dhuse 5
88 acres
Kendall County
Kendall Township
Section 16,17

59A	Lisbon silt loam, 0 to 2 percent slopes	15.8	18.1%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	80.4	51.4%	0.60 to 2.00 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	0.8	0.9%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	17.7	20.2%	0.06 to 0.60 in/hr
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	17.7	20.2%	0.06 to 0.60 in/hr
145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded	1.1	1.2%	0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.6	11.0%	0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 88
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 16 and 17

FARMER: Bob Dhuse
ADDRESS: 9095 Immanuel Road
Yorkville, IL 60560

Source of biosolids
1 City of Naperville
2 Aurora Lime

Metal Loadings in Pounds per Acre

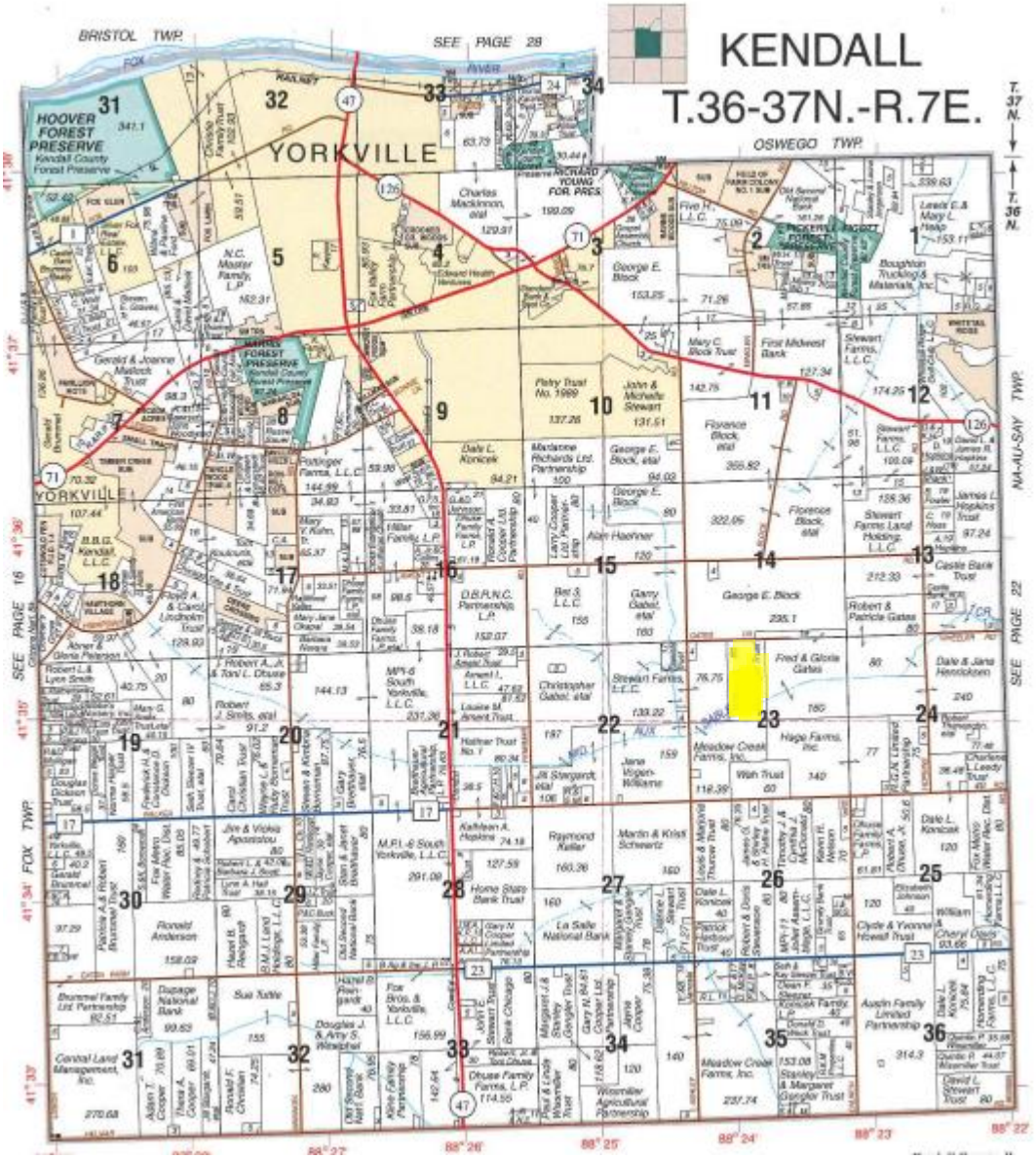
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Dec-21	0.000	1.210	0.560	0.030	0.020	1.650	0.010	0.000	0.010	0.020				562		87.79
2	Oct-22	0.009	0.041	1.086	0.038	0.009	0.098	0.000	0.000	0.000	0.000	0.0060	3.57 pci/g			1001.28	305.95
2	Apr-23	0.004	0.054	0.592	0.025	0.004	0.088	0.000	0.000	0.000	0.000	0.010	5.38 pci/g			676.16	324.34
TOTAL		0.01	1.31	2.24	0.09	0.03	1.84	0.01	0	0.01	0.02	0.016	pci/g				
%of LIMIT		0.1	0.5	0.2	0.1	0	0.4	0	0	0.1	0.1						

1	Background Radium	2.180	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.196	pci/g
4	% of Total Cumulative Limit	73.20	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Seth Sleezer

KE Seth Sleezer 7
75 acres
Kendall County
Kendall Township
Section 23



Seth Sleezer

KE Seth Sleezer 7
75 acres
Kendall County
Kendall Township
Section 23

59A	Lisbon silt loam, 0 to 2 percent slopes	3.4	3.6%	0.20 to 0.60 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	4.5	4.7%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	8.6	9.0%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	63.6	66.6%	0.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	15.3	16.0%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 75
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 23

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.001	0.015	0.164	0.007	0.001	0.024	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			188.25	76.73
	TOTAL	0	0.02	0.16	0.01	0	0.02	0	0	0	0	0.003	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	2.520	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.523	pci/g
4	% of Total Cumulative Limit	84.10	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0100

KE Gates 2
05-13-300-001

Sent 3/15/2023

Kendall County Health Department
811 John Street
Yorkville, IL 60560

Henry Schobert
8816 Hepkins Rd
Yorkville, IL 60560

Dale Hendricksen
9303 Hopkins Rd
Yorkville, IL 60560

Tom Richards-Highway Commissioner
202 S. East Street
Newark, IL 60541

George Block
First Midwest Bank
2801 W Jefferson
Joliet, IL 60435

Owner
Robert Gates
8813 Hopkins Rd
Yorkville IL 60560

LS Gunderson 1	16-05-101-000 16-05-102-000 16-05-301-000 16-05-302-000	04/1/2023
C/O CHAD B GUNDERSON 2500 RIIVENDELL DR NEW LENOX IL 60451	**GUNDERSON, WAYNE G ETAL**	LaSalle County Health Department 717 E. Etna Rd Ottawa, IL 61350
Steve Kwarten 216 Green Mountain Drive Bolingbrook IL 60440	MASON, HARRY 3525 N IL ST RT 71 MARSEILLES IL 61341	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360
Heather K. Kwarten 304 Pueblo Drive Bolingbrook IL 60440	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360	WARPINSKI, RICHARD/ MARY 13243 LAKE MARY DR PLAINFIELD IL 60585
STILLGRASS LAND LLC 3549 E 25TH RD MARSEILLES IL 61341	KAMMERER, ALLAN W/JOANNE 2370 N 32RD RD MARSEILLES IL 61341	ERB FARMS LTD PARTNERSHIP 3597 N IL ST RT 71 MARSEILLES IL 61341

KE Dhuse 2
05-15-300-005

Sent
3/15/2023

BET3 LLC,
9095 IMMANUEL RD
YORKVILLE, IL, 60560

Kendall County Highway Department Doug Westphal
6780 IL-47,
Yorkville, IL 60560

Kendall County Health Department
811 John St,
Yorkville, IL 60560

DBRNC PARTNERSHIP LP, % ROSS AMENT
W10724 BECKER RD
POYNETTE, WI, 53955

COOPER, RONALD A LTD PARTNRSHP
9103 AMENT RD
YORKVILLE, IL, 60560

RICHARDS, MARIANNE LTD PTNRSHP
1012 VISTA CIR
FRANKLIN, TN, 37067

COOPER, LARRY R LTD PARTNERSHIP
418 W KENDALL
YORKVILLE, IL, 60560

DENNIS RUMSHAS
8614 AMENT RD
YORKVILLE, IL, 60560

GABEL, GARRY ET AL
8242 AMENT RD
YORKVILLE, IL, 60560

GABEL, CHRISTOPHER ET AL
406 MEADOWLARK RD
BLOOMINGDALE, IL, 60108

STEWART FARMS LLC,
6605 RTE 126
YORKVILLE, IL, 60560

AMENT, JOHN ROBERT LIV TRUST
706 MILL ST
YORKVILLE, IL, 60560

HAEHNER, ALAN R REV TR
412 MARI WAY
CARMEL, IN, 46032

LRM0103

KE Dhuse 5
05-16-300-006
05-17-400-005

3/15/2023

% JANET DHUSE TRUSTEE
3743 N KENMORE AVE UNIT 3
CHICAGO, IL, 60613

DHUSE FAMILY FARMS LP
9095 IMMANUEL RD
YORKVILLE, IL, 60560

% ARTHUR HILLER HILLER FAMILY LTD PARTNERSHIP
11048 NEWARK RD
NEWARK, IL, 60541

RAYMOND KELLER
8814 WALKER RD
YORKVILLE, IL, 60560

KAYTANA PROPERTIES LLC AMENT
ANNE F BJORK MANAGER
305 AMSTON CT
OSWEGO, IL, 60543

CROSS EVANGELICAL LUTHRN CHRCH
LUTHERAN PARSONAGE
8609 ROUTE 47
YORKVILLE, IL, 60560

MARY ANNE OKAPAL
6767 WALKER RD
YORKVILLE, IL, 60560

Kendall County Health Department
811 John Street
Yorkville, IL 60560

Kevin Kunkel Highway Commissioner
14492 Lisbon Road
Newark, IL 60545

BARBARA NAVARA
8734 COUNTY RD 7
STEWART, MN, 55385

MPI-6 SOUTH YORKVILLE LLC
535 PLAINFIELD RD STE B
WILLOWBROOK, IL, 60527

KE Sleezer Seth 7 PIN 05-23-100-007 PIN 05-23-100-006 PIN 05-23-100-008		9/15/2021 3/15/2022 3/15/2023
WILLIAM TRUST & BUCHINGER ELIZABETH TRUST BUCHINGER 654 OAKHURST DR NAPERVILLE, IL, 60540	SETH C VI & CONNIE K SLEEZER 7214 CATON FARM RD YORKVILLE, IL, 60560	MATTHEW A & MARY CATHERINE NEWMAN 9001 A ASHLEY RD YORKVILLE, IL, 60560
STEWART FARMS LLC 6605 RTE 126 YORKVILLE, IL, 60560	MEADOW CREEK FARMS INC %SWENSON DAVID 123 NORTHGATE RD NORTH CHATHAM, MA, 02650	THOMAS J & DONNA K MCDONALD 14207 CHURCH RD MINOOKA, IL, 60447
GATES FARM EAT LLC 6605 STATE RT 126 YORKVILLE, IL, 60560	STEWART FARMS LAND HOLDING LLC BLOCK FARM 9618 HOPKINS RD YORKVILLE, IL, 60560	

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 8, 2022

2.) Name of User: Bob Gates

3.) Address of User: 8813 Hopkins Road Yorkville, IL 60560

4.) Phone Number of User: 630-554-7548

5.) Location Where Lime is to be Used: KE Gates 2

6.) Size of Area Where Lime is to be Used: 145 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 1800 wet tons

Years Applied 2020

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Richard A Hunter 8/8/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes (No) (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 24, 2022

2.) Name of User: Gerald Johnson Dhuse Family Farm

3.) Address of User: 9055 Immanuel Rd Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dhuse 2

6.) Size of Area Where Lime is to be Used: 141 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 24, 2022

2.) Name of User: Gerald Johnson Dhuse Family Farm

3.) Address of User: 9055 Immanuel Rd Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dhuse 5

6.) Size of Area Where Lime is to be Used: 88 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied 1000 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice of snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss; as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Bob Gue 8-24-22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 27, 2023

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 7

6.) Size of Area Where Lime is to be Used: 75 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closet edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4 Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X Seth Shuey II 11/27/23
I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

June 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for May 2023. This report includes all land application work done by Stewart Spreading for May 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: May 2023

Billie M Marks

Name	Date	Telephone
	6/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/20/22		Preparation Date: 07/20/22			
Analyzed By: KJM		Prepped By: KJM			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/19/22		Preparation Date: 07/18/22			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **May 2023**

Biosolids Field Record

Site: KE Kinsella 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/30/2023	5/30/2023	City of Aurora - Lime	840.23	40.17	337.52
Total			840.23		337.52

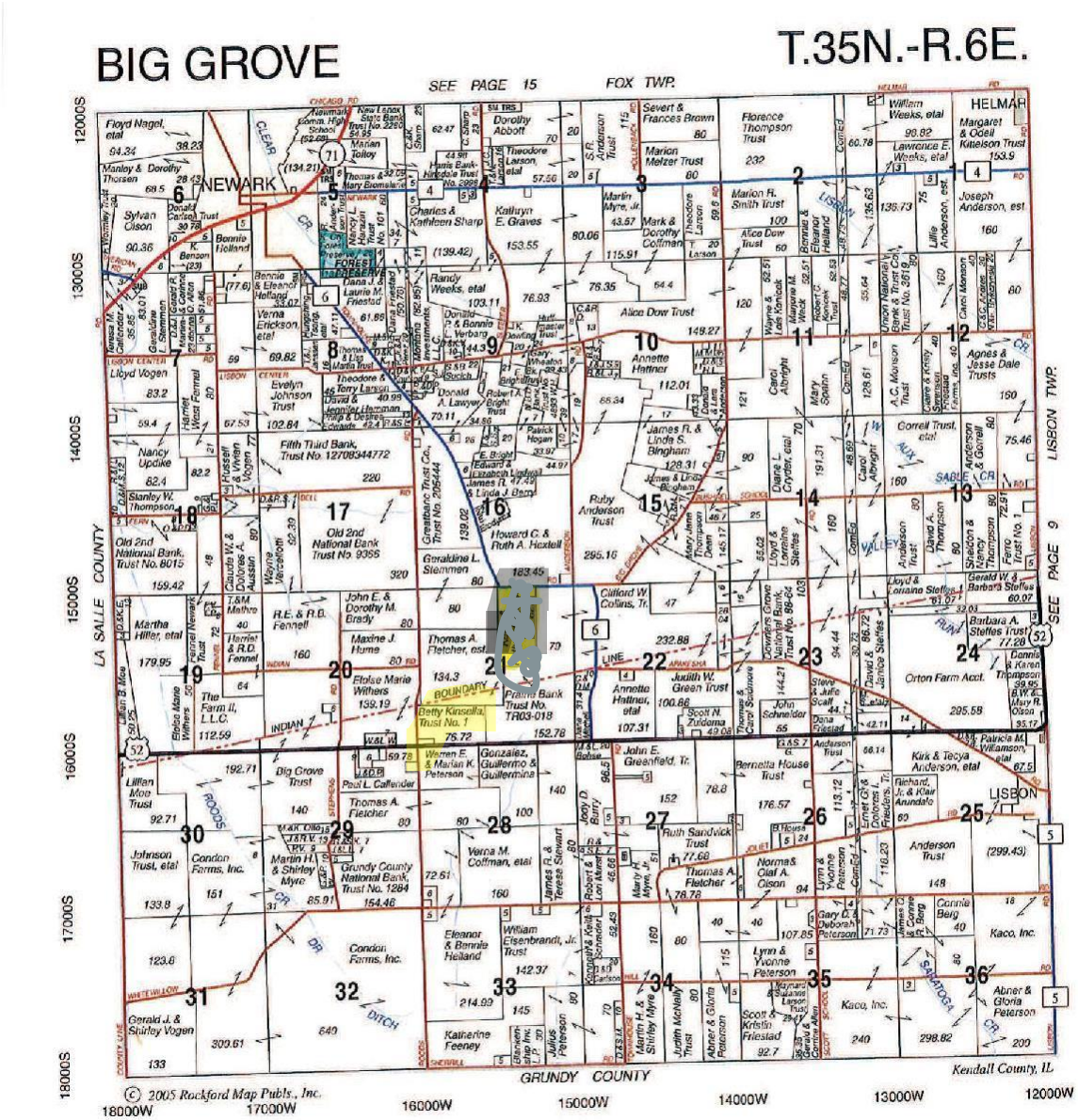
Biosolids Field Record

WL Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/31/2023	5/31/2023	City of Aurora - Lime	571.99	34.82	199.17
5/31/2023	5/31/2023	City of Aurora - Lime	571.99	39.91	228.28
Total			1143.98		427.45

Plat Map

KE Kinsella 1
73 acres
Kendall County
Big Grove Township
Section 21



Stewart SPREADING
Organic Fertilizer
Sheridan, IL • 815/695/5667

Current Map

Stewart Spreading

Farm: Kinsella **Acres:** 73.02

Field: KE Kinsella 1



Location:

County: Kendall, IL

Twp Rng Sec: T35N R6E S21

Summary Statistics

Layer Name: Soil Types

Count: 14

MuSym



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 73
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 21

FARMER: Mike Kinsella
ADDRESS: 43W510 Kenmar Drive
Elburn, IL 60119
630-327-2129

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

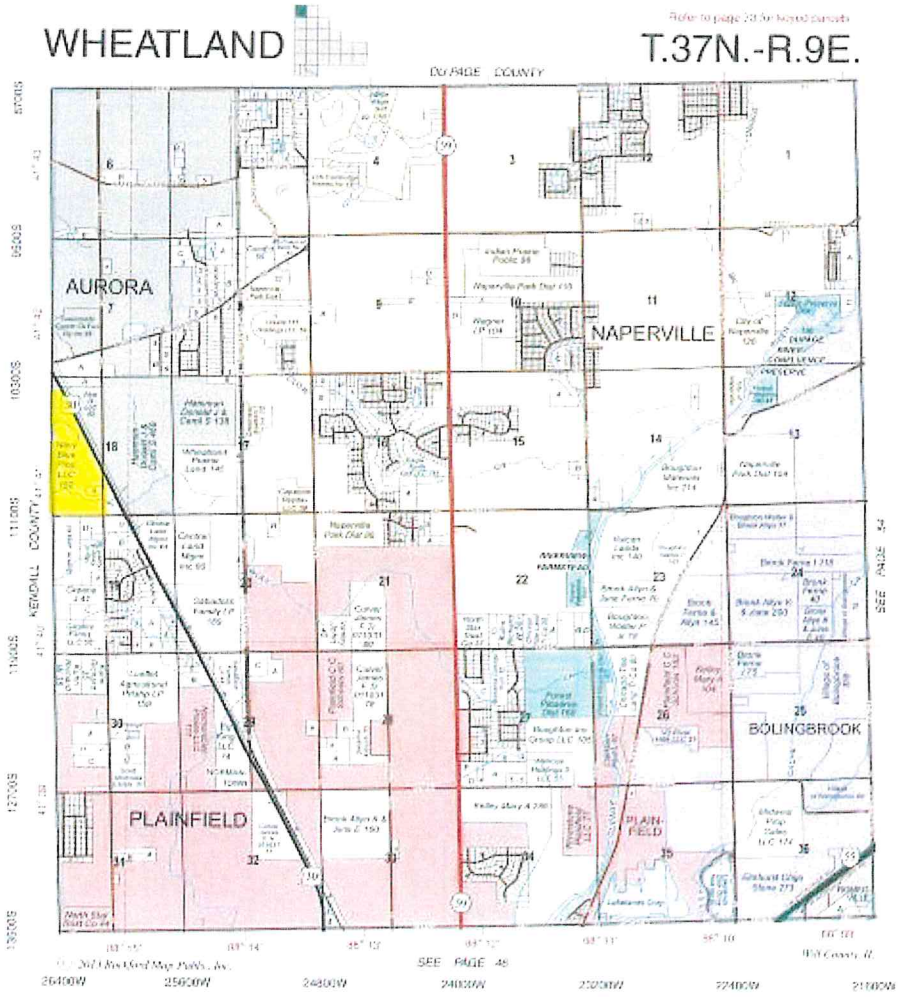
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	May-23	0.005	0.067	0.738	0.031	0.005	0.109	0	0	0	0	0.0130	5.38 pci/g			840.23	337.52
	TOTAL	0.01	0.07	0.74	0.03	0.01	0.11	0	0	0	0	0.013	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.373	pci/g
4	% of Total Cumulative Limit	42.14	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart
3870 Rt 71
Sheridan, IL 60551
815-695-5667

WL Lincolnway 1
153.76 acres
Will County
Wheatland Township
Section 18



John Stewart	WL Lincolnway 1
3870 Rt 71	153.76 acres
Sheridan, IL 60551	Will County
815-695-5667	Wheatland Township
	Section 18

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%
Collapse Will County, Illinois (IL197)			

Will County, Illinois (IL197)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
Rance Rd
W 111th St
US
541B
330A
356A
223C2
614A
541B2
223C3
541C2
223D3
67A
146A

METAL LOADING RECORD

SITE NUMBER: WL Lincolnway 1
ACREAGE: 153.76
COUNTY: Will
TOWNSHIP: Wheatland
SECTION: 18

FARMER: John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 4
3 Aurora lime
4 Romeoville
5 University Park
6 Downers Grove
7 Lasma lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.02	2.62	3.12	0.24	0.59	4.96	0.07	0	0.03	0.09					1469.59	410.02
2	December 20	0.05	5.91	6.61	0.18	1.3	11.51	0.2	0.01	0.07	0.18					2820.89	942.17
3	December 20	0.017	0.068	1.379	0.064	0.017	0.165	0	0	0	0	0.014	6.25 pci/g			1765.08	624.36
3	May-21	0.008	0.031	0.627	0.029	0.008	0.075	0	0	0	0	0.006	6.25 pci/g			720	302.76
4	Jun-21	0	1.04	0.56	0.04	0.03	1.42	0	0	0.01	0.02	0.018			1000		176.59
5	June/July 21	0	0.19	0.06	0.02	0.024	0.48	0.01	0	0.12	0.01				306		31.18
6	22-Jun	0	0.19	0.04	0.01	0.01	0.08	0	0	0	0				224		22.17
7	22-Jun	0.05	5.8	6.42	0.56	1.36	11.49	0.05	0.01	0.13	0.17					3322.16	963.43
1	22-Jun	0.01	1.69	1.84	0.17	0.3	3.09	0.01	0	0.05	0.06					1766.95	344.56
3	22-Jun	0.004	0.019	0.496	0.017	0.004	0.045	0	0	0	0	0.0030	3.57 pci/g			512.13	244.75
3	23-May	0.003	0.041	0.449	0.019	0.003	0.067	0	0	0	0	0.0080	5.38 pci/g			1143.98	427.45
	Cumulative Total	0.16	17.56	21.15	1.33	3.64	33.32	0.34	0.02	0.41	0.53	0.049	pci/g				
	%of LIMIT	1.6	7	2.4	1.3	0.4	6.7	0.3	0.1	5.1	3.3						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.049	pci/g
4	% of Total Cumulative Limit	52.45	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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KE Kinsella 1
07-21-300-003

5/13/2023

ZYDEK, RYAN
15915 ROODS RD
NEWARK, IL, 60541

LIESER, CARY W & PAMELA J
16420 US HWY 52
NEWARK, IL, 60541

ENIX, LEONA RESIDUARY TRUST &, MILLER III, JOSEPH W RESIDUARY TRUST
% LEONA ENIX TRUSTEE
105 TWIN OAK DR #203
JOLIET, IL, 60431

CHICAGO TITLE LAND TRUST COMPANY, TRUST: 30049209
1725 S NAPERVILLE RD
WHEATON, IL, 60189

TAKIFF SCHEINEFELD, ELIZABETH TRUST: INVESTMENT TR
P O BOX 546
HIGHLAND PARK, IL, 60035

GONZALEZ, GUILLERMO & GUILLERMINA
1031 PRAIRIE AVE
DES PLAINES, IL, 60016

66 LAND VENTURES LLC
P O BOX 246
NEWARK, IL, 60541

FRIESTAD, DANA & LAURIE
9218 WHITEWILLOW RD
MORRIS, IL, 60450

66 LAND VENTURES LLC
P O BOX 246
NEWARK, IL, 60541

Kendall County Health Department
811 John Street
Yorkville, IL 60560

Tom Richards-Highway Commissioner
202 S. East Street
Newark, IL 60541

WL Linclnway 1

6/15/2022
3/15/2023

LINCOLNWAY CROSSING LLC
1N220 INDIAN KNOLL RD
WEST CHICAGO IL 60185

Lincoln Prairie Aurora LLC
6275 STATE RTE 71
OSWEGO IL 60543

NGH Farms LLC
13351b Faxon RD
Plano IL 60545

GARDINER CHRISTOPHER J
45 HEGGS RD
OSWEGO IL 60543

SCHWEGLER EDWARD F
11152 S HEGGS RD
PLAINFIELD IL 60585

John Greene
34 RANCE RD
OSWEGO IL 60543

Will County Health Department
1106 Neal Ave
Joliet, IL 60433

Tom Wieser
Township Road Commissioner
4232 Tower Court
Naperville, IL 60564

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 18, 2023

2.) Name of User: Mike Kinsella

3.) Address of User: 43W510 Kenmar Drive Elburn, IL 60119

4.) Phone Number of User: 630-327-2129

5.) Location Where Lime is to be Used: KE Kinsella 1 Kendall County, Big Grove Township

6.) Size of Area Where Lime is to be Used: 73 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4 Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X mmk 5/18/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: WL Lincolnway 1

6.) Size of Area Where Lime is to be Used: 153.76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 3000 wet tons

Years Applied 2020 and 2021 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

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   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0134

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

July 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for June 2023. This report includes all land application work done by Stewart Spreading for June 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: June 2023

Billie M Marks

Name	Date	Telephone
	7/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/20/22			Preparation Date: 07/20/22		
Analyzed By: KJM			Prepped By: KJM		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22			Preparation Date: 07/18/22		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **June 2023**

Biosolids Field Record

Site: WL Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/1/2023	6/1/2023	City of Aurora - Lime	527.33	32.61	171.96
Total			527.33		171.96

Biosolids Field Record

Site: KE Moe 11

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/30/2023	6/1/2023	City of Aurora - Lime	190.82	40.17	76.65
6/1/2023	6/1/2023	City of Aurora - Lime	598.95	32.61	195.32
6/2/2023	6/2/2023	City of Aurora - Lime	112.87	40.68	45.92
Total			902.64		317.89

Biosolids Field Record

Site: LS Compost 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/5/2023	City of Aurora - Lime	240.24	40.68	97.73
6/5/2023	6/5/2023	City of Aurora - Lime	226.22	38.76	87.68
Total			466.46		185.41

Biosolids Field Record

Site: LS Roberts 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/3/2023	City of Aurora - Lime	89.62	40.68	36.46
Total			89.62		36.46

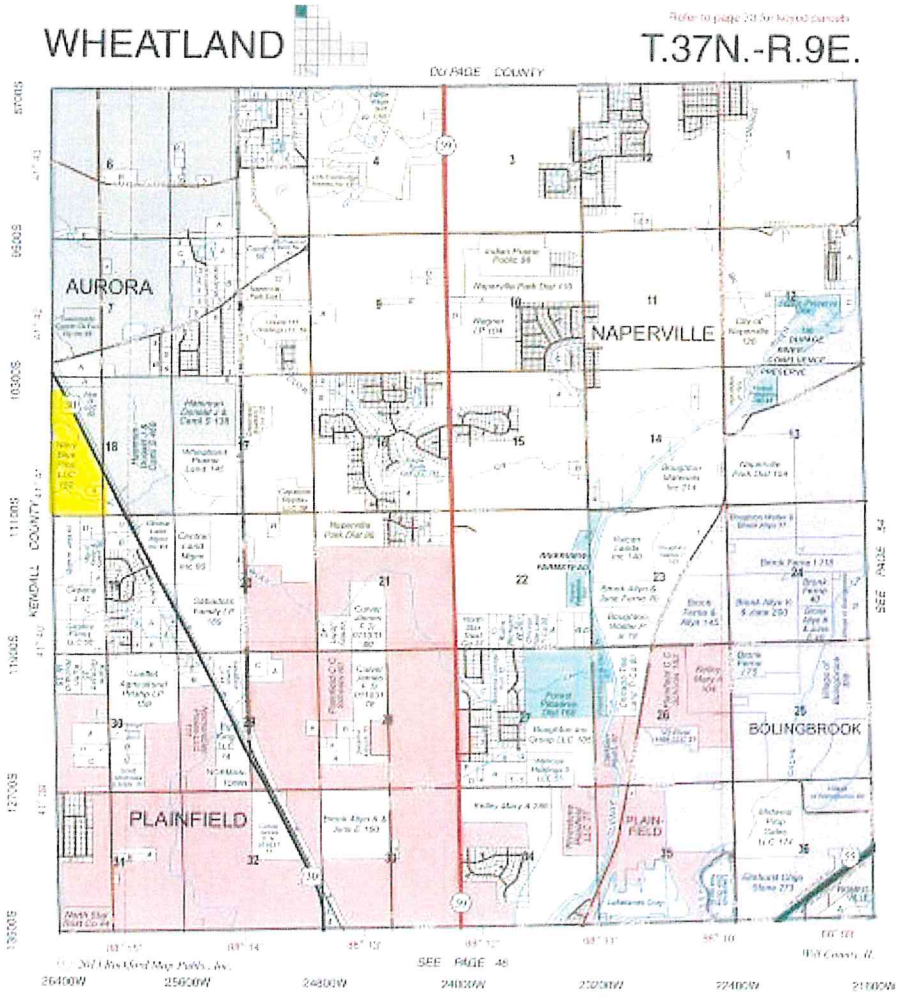
Biosolids Field Record

Site: LS Burkhart 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/2/2023	City of Aurora - Lime	89.63	40.68	36.46
Total			89.63		36.46

John Stewart
3870 Rt 71
Sheridan, IL 60551
815-695-5667

WL Lincolnway 1
153.76 acres
Will County
Wheatland Township
Section 18



John Stewart
3870 Rt 71
Sheridan, IL 60551
815-695-5667

WL Lincolnway 1
153.76 acres
Will County
Wheatland Township
Section 18

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area Collapse Will County, Illinois (IL197)		379.9	71.6%

Will County, Illinois (IL197)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
Rance Rd
W 111th St
US
541B
330A
356A
223C2
614A
541B2
223C3
541C2
223D3
67A
146A

METAL LOADING RECORD

SITE NUMBER: WL Lincolnway 1
ACREAGE: 153.76
COUNTY: Will
TOWNSHIP: Wheatland
SECTION: 18

FARMER: John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 4
3 Aurora lime
4 Romeoville
5 University Park
6 Downers Grove
7 Lasma lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.02	2.62	3.12	0.24	0.59	4.96	0.07	0	0.03	0.09					1469.59	410.02
2	December 20	0.05	5.91	6.61	0.18	1.3	11.51	0.2	0.01	0.07	0.18					2820.89	942.17
3	December 20	0.017	0.068	1.379	0.064	0.017	0.165	0	0	0	0	0.014	6.25 pci/g			1765.08	624.36
3	May-21	0.008	0.031	0.627	0.029	0.008	0.075	0	0	0	0	0.006	6.25 pci/g			720	302.76
4	Jun-21	0	1.04	0.56	0.04	0.03	1.42	0	0	0.01	0.02	0.018			1000		176.59
5	June/July 21	0	0.19	0.06	0.02	0.024	0.48	0.01	0	0.12	0.01				306		31.18
6	22-Jun	0	0.19	0.04	0.01	0.01	0.08	0	0	0	0				224		22.17
7	22-Jun	0.05	5.8	6.42	0.56	1.36	11.49	0.05	0.01	0.13	0.17					3322.16	963.43
1	22-Jun	0.01	1.69	1.84	0.17	0.3	3.09	0.01	0	0.05	0.06					1766.95	344.56
3	22-Jun	0.004	0.019	0.496	0.017	0.004	0.045	0	0	0	0	0.0030	3.57 pci/g			512.13	244.75
3	23-May	0.003	0.041	0.449	0.019	0.003	0.067	0	0	0	0	0.0080	5.38 pci/g			1143.98	427.45
7	23-May	0.01	0.76	0.98	0.08	0.15	1.5	0.01	0	0.02	0.02					525.25	134.46
1	23-May	0.05	4.88	5.3	0.51	0.95	10.01	0.12	0.01	0.12	0.18					4055.12	940.79
3	June.2023	0.001	0.016	0.18	0.008	0.001	0.027	0	0	0	0	0.0030	5.38 pci/g			527.33	171.96
	Cumulative Total	0.22	23.24	27.88	1.94	4.75	44.89	0.47	0.03	0.55	0.73	0.052	pci/g				
	%of LIMIT	2.2	9.3	3.1	1.9	0.5	9	0.5	0.1	6.9	4.5						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.052	pci/g
4	% of Total Cumulative Limit	52.60	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Benjamin H. Moe

415 Walnut Street

Yorkville, IL 60560

(630) 553-2798

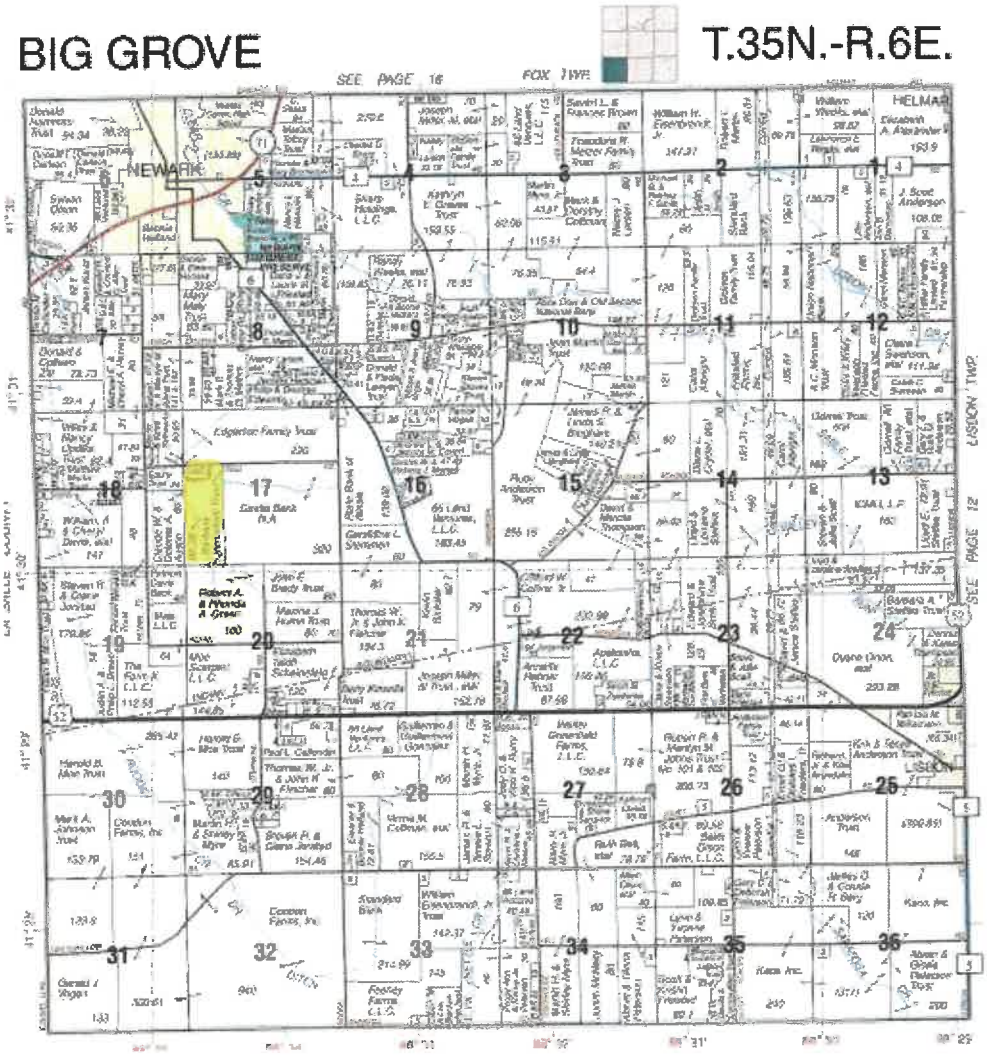
Field 11

63 acres

Kendall County

Big Grove Township

Section 17



Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 11
63 acres
Kendall County
Big Grove Township
Section 17

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.6	1.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.3	20.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	18.1	20.6%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	23.5	26.7%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	6.6	7.5%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	18.2	20.7%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.6	1.8%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER:	KE Moe 11	COUNTY:	Kendall
ACREAGE:	63	TOWNSHIP:	Big Grove
		SECTION:	17
FARMER:	John Stewart		
ADDRESS:	3870 N IL Rt. 71		
	Sheridan, IL 60551		
	815-695-5667		

Source of biosolids
1 Sandwhich
2 Aurora Lime

Metal Loadings in Pounds per Acre

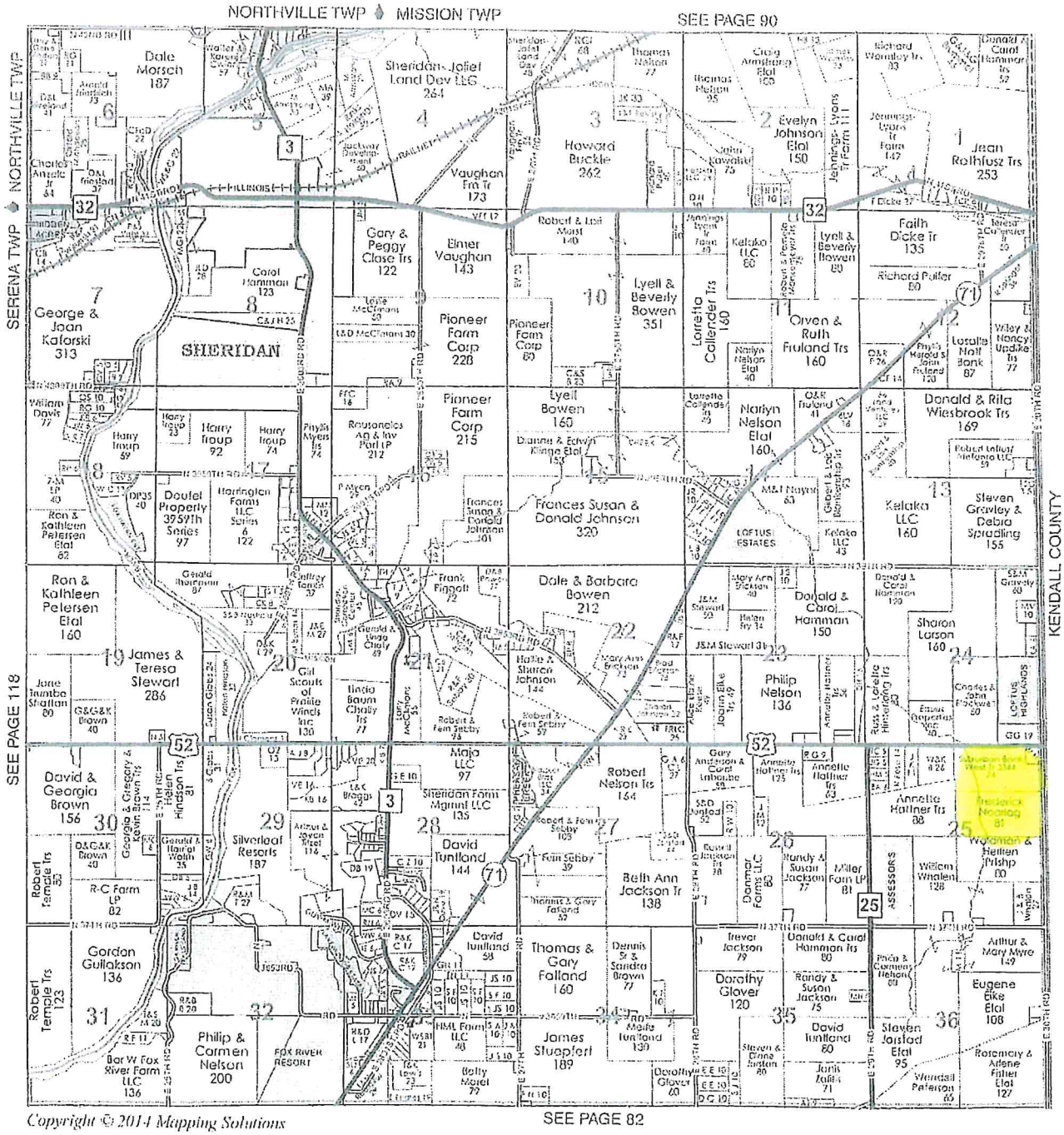
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 2023	0	0.41	0.46	0.15	0.1	0.55	0.01	0	0	0.05	0.000	
2	June 2023	0.005	0.074	0.81	0.034	0.005	0.12	0	0	0	0	0.014	5.38 pci/g
	TOTAL	0.01	0.48	1.27	0.18	0.11	0.67	0.01	0	0	0.05	0.014	
	%of LIMIT	0.1	0.2	0.1	0.2	0	0.1	0	0	0	0.3		

1	Background Radium	2.380	
2	Site Limit	3.000	
3	Cumulative Total to Date	2.394	
4	% of Total Cumulative Limit	79.80	

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

John Stewart
3870 N. Rt 71
Sheridan, IL 60551
815-695-5667

LS Compost 1
193.26 acres
LaSalle County
Mission Township
Section 25

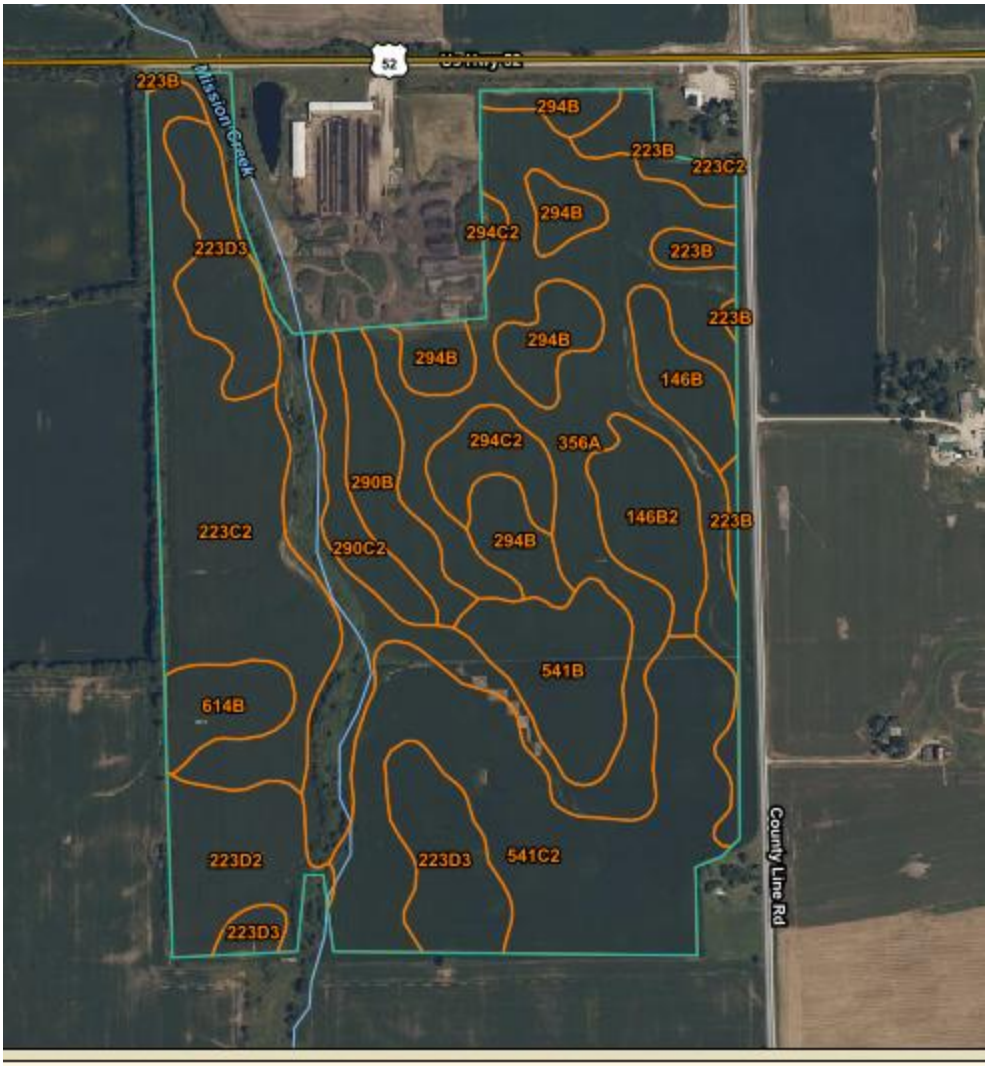


LRM0149

John Stewart
3870 N Rt. 71
Sheridan IL 60551
815-695-5667

LS Compost 1
193 acres
LaSalle County
Mission Township
Section 25

146B	Elliott silt loam, 2 to 4 percent slopes	4.3	2.2%	0.06 to 0.20 in/hr
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded	6.9	3.6%	0.06 to 0.20 in/hr
223B	Varna silt loam, 2 to 4 percent slopes	5.2	2.7%	0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	26.7	13.7%	0.06 to 0.20 in/hr
223D2	Varna silt loam, 6 to 12 percent slopes, eroded	9.2	4.7%	0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	15.9	8.2%	0.06 to 0.20 in/hr
290B	Warsaw silt loam, 2 to 4 percent slopes	6.0	3.1%	0.60 to 2.00 in/hr
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	4.5	2.3%	0.06 to 0.20 in/hr
294B	Symerton silt loam, 2 to 5 percent slopes	12.7	6.5%	0.06 to 0.20 in/hr
294C2	Symerton silt loam, 5 to 10 percent slopes, eroded	4.9	2.5%	0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	52.2	26.8%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	9.4	4.8%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	32.3	16.6%	0.06 to 0.20 in/hr
614B	Chenoa silty clay loam, 2 to 5 percent slopes	24.5	2.3%	0.06 to 0.20 in/hr


52
US Hwy 52
Mission Creek
County Line Rd
223B
294B
223B
223C2
294B
294C2
223D3
223B
223B
294B
294B
146B
294C2
356A
290B
146B2
223B
223C2
290C2
294B
541B
614B
223D2
223D3
541C2
223D3

METAL LOADING RECORD

SITE NUMBER: LS Compost 1
ACREAGE: 193.26
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 25

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids

1 Elmhurst
2 Wheaton
3 Naperville pile 1
4 Naperville pile 2
5 Naperville pile 3
6 Bensenville
7 DuPage
8 Aurora Lime
9 Plainfield
10 Lasma-Lagoon 28
11 Glendale Heights
12 Sandwhich

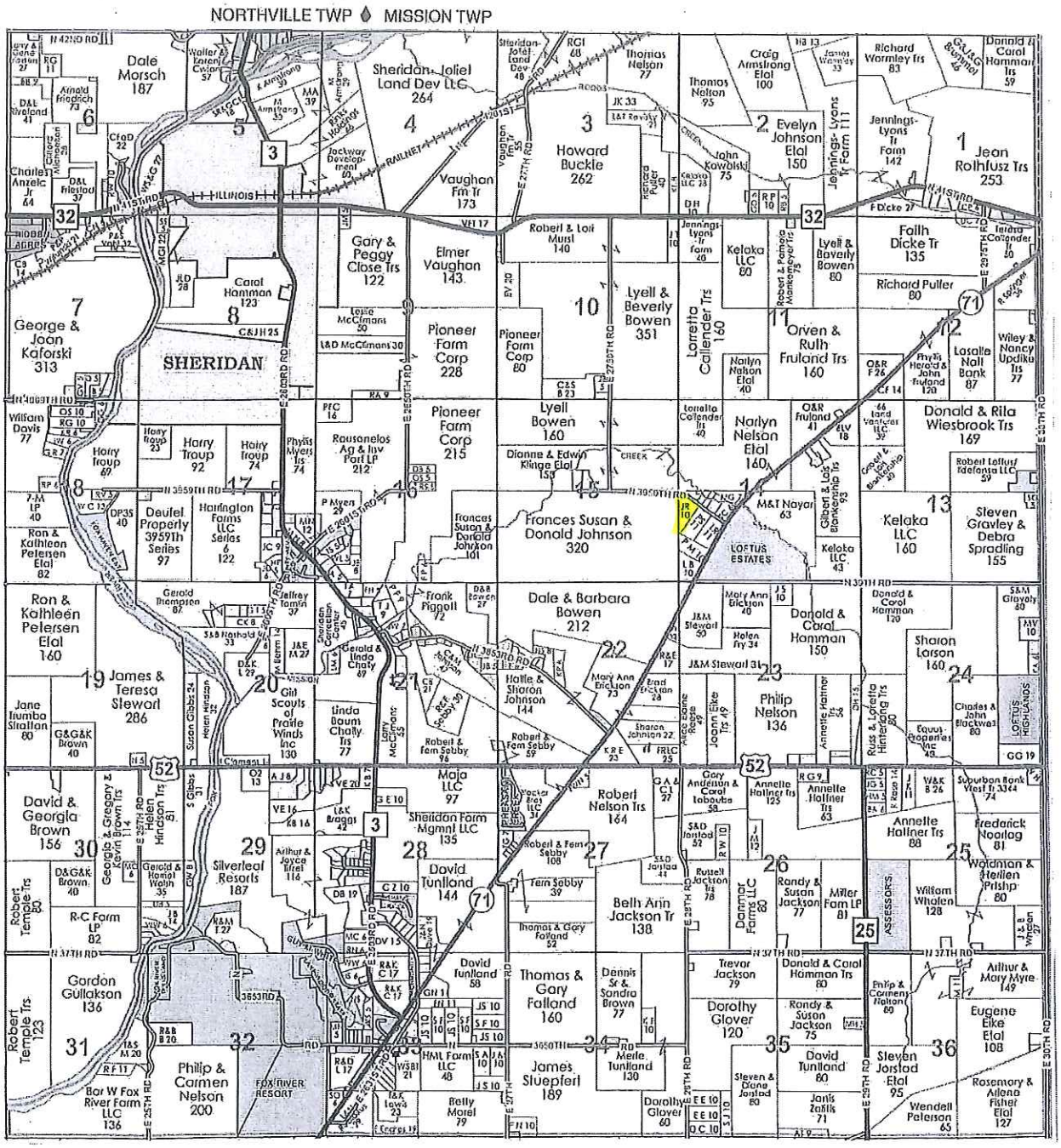
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb-20	0	0.66	0.7	0.01	0.03	0.69	0.01	0	0.01	0.01				630		96.81
2	Feb-20	0.000	1.350	1.320	0.030	0.060	1.900	0.010	0.000	0.010	0.040	0.0010			658		145.25
3	Apr-20	0.000	2.150	1.540	0.070	0.050	2.990	0.010	0.000	0.030	0.030				1733		300.15
4	Apr-20	0.000	2.610	1.730	0.090	0.070	3.410	0.040	0.000	0.030	0.050				2660		442.63
5	Apr-20	0.000	1.390	0.830	0.050	0.030	1.890	0.020	0.000	0.020	0.020				1547		252.17
6	Feb-21	0.000	0.850	1.320	0.060	0.100	0.930	0.010	0.000	0.010	0.020				1008		132.65
7	Feb-21	0.000	0.180	0.120	0.600	0.010	0.240	0.230	0.000	0.000	0.000				175		22.58
7	Mar-21	0.000	0.600	0.320	0.020	0.020	0.720	0.010	0.000	0.010	0.010				650		80.57
8	Mar-21	0.008	0.030	0.614	0.028	0.008	0.073	0.000	0.000	0.000	0.000	0.0060				1003.33	371.13
7	Apr-21	0.000	1.200	0.630	0.040	0.040	1.450	0.020	0.000	0.010	0.020				1200.00		148.74
9	Apr-21	0.029	1.740	0.870	0.090	0.020	2.470	0.060	0.001	0.060	0.050				4228		523.72
7	May-21	0.000	1.000	0.540	0.030	0.030	1.200	0.010	0.000	0.010	0.020				975		120.86
8	Jun-21	0.013	0.051	1.024	0.047	0.013	0.122	0.000	0.000	0.000	0.000	0.0100				1194.18	623.41
8	Feb-22	0.002	0.007	0.197	0.007	0.002	0.018	0.000	0.000	0.000	0.000	0.0010				369.55	121.77
8	Mar-22	0.000	0.000	0.012	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.0000				22.28	6.81
10	May-22	0.030	3.380	3.680	0.340	0.600	6.190	0.030	0.000	0.090	0.130					4651.36	907.02
7	May-22	0.030	3.380	3.680	0.340	0.600	6.190	0.030	0.000	0.090	0.130				200		27.34
7	Jun-22	0.000	0.080	0.060	0.000	0.000	0.100	0.000	0.000	0.000	0.000				75		10.63
10	Jun-22	0.010	0.960	1.050	0.100	0.170	1.760	0.010	0.000	0.030	0.040				1322.53		257.89
11	Feb-23	0.000	0.050	0.050	0.010	0.030	0.020	0.090	0.000	0.000	0.000	0.0000			120		16.3
11	Mar-23	0.000	0.110	0.110	0.060	0.040	0.180	0.000	0.000	0.000	0.020				240		32.6
7	Jan-23	0.000	0.930	0.430	0.080	0.040	1.380	0.010	0.000	0.010	0.030				950		119.37
7	Feb-23	0.010	1.300	0.590	0.110	0.050	1.930	0.010	0.000	0.010	0.040				1325		166.49
7	Mar-23	0.000	0.810	0.370	0.070	0.030	1.200	0.010	0.000	0.010	0.020				925		106.8
11	Apr-23	0.000	0.140	0.140	0.080	0.050	0.230	0.000	0.000	0.000	0.030				300		40.75
1	Apr-23	0.000	0.070	0.020	0.000	0.000	0.170	0.000	0.000	0.000	0.000				215		27.38
7	Apr-23	0.010	1.030	0.540	0.040	0.030	1.190	0.010	0.000	0.010	0.020				1225		153.92
11	May-23	0.000	0.130	0.230	0.000	0.000	0.230	0.000	0.000	0.000	0.000				280		37.8
4	May-23	0.000	0.780	0.360	0.030	0.020	1.000	0.010	0.000	0.010	0.010				777		131.27
7	May-23	0.000	0.340	0.180	0.010	0.010	0.400	0.000	0.000	0.000	0.010					525	65.97
12	Jun-23	0.000	0.180	0.200	0.070	0.040	0.240	0.000	0.000	0.000	0.020				252		32.09
11	Jun-23	0.000	0.030	0.050	0.000	0.000	0.050	0.000	0.000	0.000	0.000				60		8.1
8	Jun-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.0030				466.46	185.41
	TOTAL	0.14	27.52	23.51	2.51	2.19	40.56	0.64	0	0.46	0.77	0.021	pci/g				
	%of LIMIT	1.4	11	2.6	2.5	0.2	8.1	0.6	0	5.8	4.8						

1	Background Radium	1.362	pci/g
2	Site Limit	2.362	pci/g
3	Cumulative total to Date	1.383	pci/g
4	% of Total Cumulative Limit	58.55	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stweart
3870 US RT 71
Sheridan IL 60551
815-695-5667

LS Roberts 1
9.2 acres
LaSalle County
Mission Township
Section 14



LRM0153

John Stweart
3870 US RT 71
Sheridan IL 60551
815-695-5667

LS Roberts 1
9.2 acres
LaSalle County
Mission Township
Section 14

91B	Swygert silty clay loam, 2 to 4 percent slopes	2.6	30.9%	0.02 to 0.06 in/hr
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	0.8	9.8%	0.02 to 0.06 in/hr
103A	Houghton muck, 0 to 2 percent slopes	0.4	5.0%	0.20 to 6.00 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	0.3	3.2%	0.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	0.4	4.8%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	1.3	16.1%	0.02 to 0.06 in/hr
435A	Streator silty clay loam, 0 to 2 percent slopes	2.4	28.7%	0.02 to 0.20 in/hr
448C2	Mona silt loam, 5 to 10 percent slopes, eroded	0.1	1.6%	0.02 to 0.06 in/hr



METAL LOADING RECORD

SITE NUMBER:	LS Roberts 1	COUNTY:	LaSalle
ACREAGE:	9.2	TOWNSHIP:	Mission
		SECTION:	14
FARMER:	John Stewart		
ADDRESS:	3870 N. Rout 71		
	Sheridan, IL 60551		

Metal Loadings in Pounds per Acr

Source of biosolids

1 Bensenville
2 Sandwich
3 DuPage
4 Downers Grove
5 Lasma lagoon 28
6 Aurora Lime

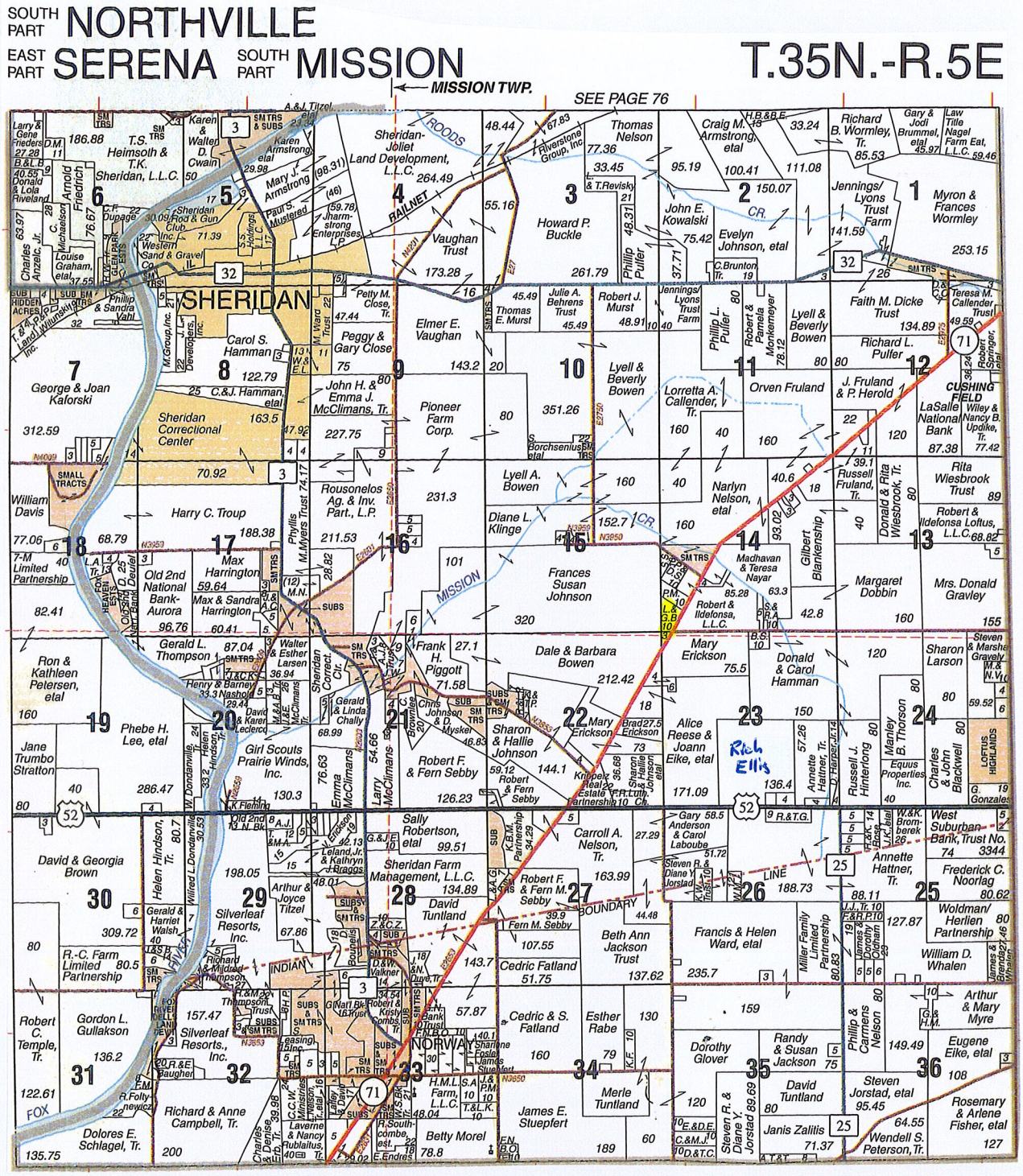
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	June 2018	0.010	5.7100	6.200	0.340	0.510	5.550	0.05	0.00	0.06	0.08				382		46.05	
2	May 2021	0.040	2.790	2.790	0.120	0.080	2.790	0.08	0.01	0.12	0.04				220		33.62	
3	May 2021	0.00	1.10	0.57	0.03	0.03	1.30	0.01	0.00	0.01	0.02				50		6.2	
4	Jun-22	0.02	2.34	0.51	0.09	0.10	1.04	0.04	0.00	0.04	0.04				168		16.63	
3	June 22	0.01	3.16	2.25	0.18	0.12	3.89	0.04	0.00	0.04	0.07				150		21.27	
5	June 22	0.01	1.69	1.84	0.17	0.30	3.09	0.01	0.00	0.05	0.06					112.39	21.92	
6	June 23	0.004	0.058	0.635	0.027	0.004	0.094	0.000	0.000	0.000	0.000	0.0110				89.62	36.46	
	TOTAL	0.094	16.848	14.795	0.957	1.144	17.754	0.23	0.01	0.32	0.31	0.011						
	%of LIMIT	0.9	6.7	1.6	1	0.1	3.6	0.2	0	4	1.9							

1	Background Radium	2.580	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.591	pci/g
4	% of Total Cumulative Limit	86.37	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

LS Burkhart 1
8.88 acres
LaSalle County
Mission Township
Section 22



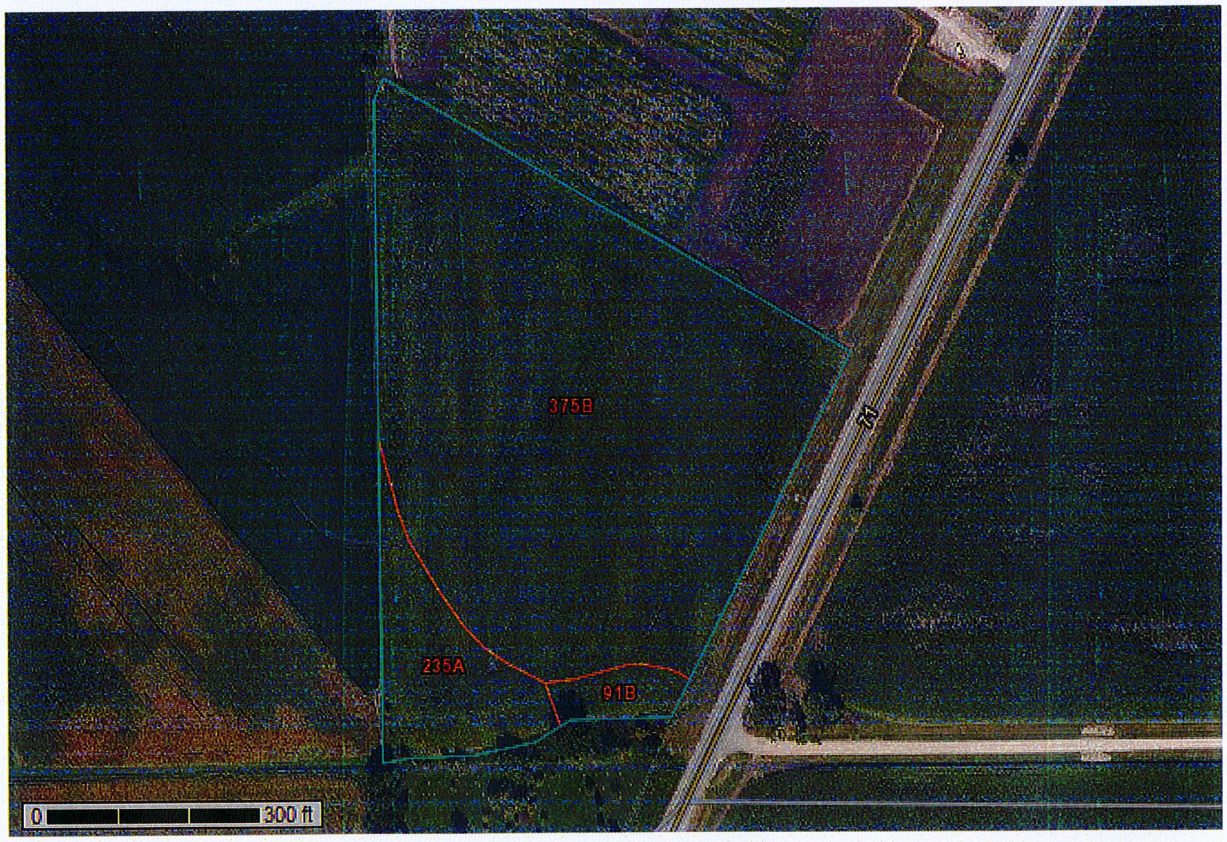
A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com
LRM0156

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

LS Burkhart 1
8.88 acres
LaSalle County
Mission Township
Section 22

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Rutland, 375B	SiCL	2-5%	0.6-2.0 in/hr
Mona, 448C2	SiL	5-10%	0.6-2.0 in/hr
Blackberry, 679B	SiL	2-5%	0.6-2.0 in/hr
Bryce silty clay 235A	SiCL	0-2%	(0.02 to 0.06 in/hr)
Swygert 91B	SiCL	2-4%	(0.02 to 0.06 in/hr)



METAL LOADING RECORD

SITE NUMBER: LS Burkhart 1
ACREAGE: 8.88
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 22

FARMER: John Stewart
ADDRESS: 3870 N. Rout 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids
1 Bensenville
2 Sheridan
3 Geneva
4 Sandwich
5 DuPage
6 Lasma lagoon 28
7 Salt Creek
8 Aurora Lime

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	June 2018	0.000	3.6200	3.930	0.210	0.330	3.520	0.03	0.00	0.03	0.05				225		27.13	
2	June 2018	0.000	1.630	1.410	0.060	0.070	1.640	0.00	0.00	0.05	0.02	0.020			150		34.51	
3	Jan-20	0.04	4.41	2.16	0.24	0.20	8.85	0.05	0.02	0.08	0.11	0.100			380		70.01	
4	May-21	0.06	4.07	4.07	0.18	0.12	4.07	0.12	0.01	0.18	0.06	0.010			312		47.68	
5	May-21	0.00	0.56	0.30	0.02	0.02	0.69	0.01	0.00	0.01	0.01				25		3.1	
5	Jun-22	0.00	1.57	1.12	0.09	0.06	1.93	0.02	0.00	0.02	0.03				75		10.63	
6	Jun-22	0.03	3.97	4.34	0.40	0.71	7.28	0.03	0.00	0.11	0.15					243.67	47.52	
7	May-23	0.02	5.24	7.31	0.71	0.32	8.83	0.01	0.01	0.03	0.13				260		38.85	
8	Jun-23	0.00	0.06	0.66	0.03	0.00	0.10	0.00	0.00	0.00	0.00	0.0110				89.63	36.46	
	TOTAL	0.152	25.130	25.299	1.938	1.834	36.908	0.27	0.04	0.51	0.56	0.141						
	%of LIMIT	1.5	10.1	2.8	1.9	0.2	7.4	0.3	0	6.4	3.5							

1	Background Radium	1.739	pci/g
2	Site Limit	2.739	pci/g
3	Cumulative total to Date	1.880	pci/g
4	% of Total Cumulative Limit	68.64	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

app

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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WL Linclnway 1

6/15/2022
3/15/2023

LINCOLNWAY CROSSING LLC
1N220 INDIAN KNOLL RD
WEST CHICAGO IL 60185

Lincoln Prairie Aurora LLC
6275 STATE RTE 71
OSWEGO IL 60543

NGH Farms LLC
13351b Faxon RD
Plano IL 60545

GARDINER CHRISTOPHER J
45 HEGGS RD
OSWEGO IL 60543

SCHWEGLER EDWARD F
11152 S HEGGS RD
PLAINFIELD IL 60585

John Greene
34 RANCE RD
OSWEGO IL 60543

Will County Health Department
1106 Neal Ave
Joliet, IL 60433

Tom Wieser
Township Road Commissioner
4232 Tower Court
Naperville, IL 60564

KE Moe 11
07-17-300-003

04/04/2023

BARBARA TRUST VERCELLOTTI
1540 ROUTE 59
JOLIET, IL, 60431

Big Grove Township
406 E Franklin St,
Newark, IL 60541

Kendall County Health Department
811 John St,
Yorkville, IL 60560

FBO MATTHEW G MARKS EQUITY TRUST
D/B/A STERLING TRUST
14135 FENNEL RD
NEWARK, IL, 60541

CHRISTOPHER JAMES & JANELLE LEA
KREFTMEYER
8730 WILCOX CT
NEWARK, IL, 60541

JEREMY & BOBBIE JEAN JOHNSON
16501 INDIAN RD
NEWARK, IL, 60541

HTN3225
% CLAUDE W & DOLORES A AUSTIN
14598 FENNEL RD
NEWARK, IL, 60541

JOHN & MICHELLE STEWART
3870 N ILL RTE 71
SHERIDAN, IL, 60551

SUMMIT AG FUND III LLP
10640 HWY D20
ALDEN, IA, 50006

PATRICIA DAVIS BACK
88 OAKWOOD VILLAGE
FLANDERS, NJ, 07836

DUANE & ELLEN SARTOR TR
16970 FERN DELL RD
NEWARK, IL, 60541

LS Compost 1

3/15/2022
3/15/2023

Resident of
19 W 710 97TH STREET
LEMONT IL 60439

Resident of
W14080 SPUR FIVE
SHELDON WI 54766

Resident of
1425 ELLINWOOD AVE DES
PLAINES IL 60016

DALE W MORSCH REVOCABLE
LIVING TRUST PO BOX
765 SHERIDAN IL 60551

Resident of
2037 BALLS NECK RD
KILMARNOCK VA 22482

LaSalle County Health Department
717 E Etna Road
Ottawa, IL 61350

C/O JEROME WHALEN
2963 N 37TH RD
SENECA IL 61360

Resident of
2997 N 37TH ROAD
SENECA IL 61360

Kenneth Thompson
Mission Township Highway
P.O. Box 292
Sheridan, IL 60551

Mary Ann Erickson
3827 N. Route 71
Sheridan, IL 60551

Leonard Burkhart
9S Maple Lane
Yorkville, IL 60560

Paul Michalowski
3915 N. Route 71
Sheridan, IL 60551

David Hub
11247 S. Anvil Court
Naperville, IL 60564

LS Roberts 1

LS Burkhart 1

LaSalle County Health Department
717 E Etna Rd,
Ottawa, IL 61350

3/15/2023

Mission Township Admin Building
4068 E 2603rd Rd,
Sheridan, IL 60551

LS Burkhart 1

5/15/2022
9/17/2022
3/15/2023

David Hub
11247 S. Anvil Court
Naperville, IL 60564

Mission Township Admin Building
4068 E 2603rd Rd,
Sheridan, IL 60551

Paul Michalowski
3915 N. Route 71
Sheridan, IL 60551

Mary Ann Erickson
3827 N. Route 71
Sheridan, IL 60551

LaSalle County Health Department
717 E Etna Rd,
Ottawa, IL 61350

Leonard Burkhart
9S Maple Lane
Yorkville, IL 60560

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: WL Lincolnway 1

6.) Size of Area Where Lime is to be Used: 153.76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 3000 wet tons

Years Applied 2020 and 2021 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0166

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County,

6.) Size of Area Where Lime is to be Used: 63 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator _____
Amount Applied _____
Years Applied _____

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X [signature] Mgr 5/10/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Compost 1

6.) Size of Area Where Lime is to be Used: 193.26 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx 1500 wet tons

Years Applied 2021 and 2022

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Roberts 1

6.) Size of Area Where Lime is to be Used: 9.2 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Burkhart 1

6.) Size of Area Where Lime is to be Used: 8.88 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0172

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

August 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for July 2023. This report includes all land application work done by Stewart Spreading for July 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: July 2023

Billie M Marks

Name	Date	Telephone
	8/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/20/22		Preparation Date: 07/20/22			
Analyzed By: KJM		Prepped By: KJM			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/19/22		Preparation Date: 07/18/22			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **July 2023**

Biosolids Field Record

Site: KE Ferndell 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/5/2023	7/19/2023	City of Aurora - Lime	358.43	38.76	138.93
6/12/2023	7/19/2023	City of Aurora - Lime	803.64	40.44	324.99
6/14/2023	7/19/2023	City of Aurora - Lime	803.57	39.6	318.21
6/15/2023	7/19/2023	City of Aurora - Lime	427.18	49.53	211.58
Total			2392.82		993.72

Biosolids Field Record

Site: KE Moe 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	7/20/2023	City of Aurora - Lime	117.17	36.5	42.77
7/11/2023	7/20/2023	City of Aurora - Lime	770.29	36.77	283.24
Total			887.46		326.00

Biosolids Field Record

Site: LS Bicksler 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/11/2023	7/20/2023	City of Aurora - Lime	47.22	36.77	17.36
7/17/2023	7/20/2023	City of Aurora - Lime	353.51	42.76	151.16
7/18/2023	7/20/2023	City of Aurora - Lime	371.32	38.99	144.78
Total			772.05		313.30

Biosolids Field Record

Site: LS Hamman 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/17/2023	7/21/2023	City of Aurora - Lime	167.13	42.76	71.46
7/18/2023	7/21/2023	City of Aurora - Lime	188.34	38.99	73.43
Total			355.47		144.90

Biosolids Field Record

KE Moe 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/18/2023	7/18/2023	City of Aurora - Lime	186.12	38.99	72.57
7/19/2023	7/19/2023	City of Aurora - Lime	557.32	37.38	208.33
7/20/2023	7/20/2023	City of Aurora - Lime	168.43	37.23	62.71
Total			911.87		343.60

Biosolids Field Record

Site: KE Stewart 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/20/2023	7/22/2023	City of Aurora - Lime	310.02	37.23	115.42
7/21/2023	7/22/2023	City of Aurora - Lime	491.69	42.41	208.53
Total			801.71		323.95

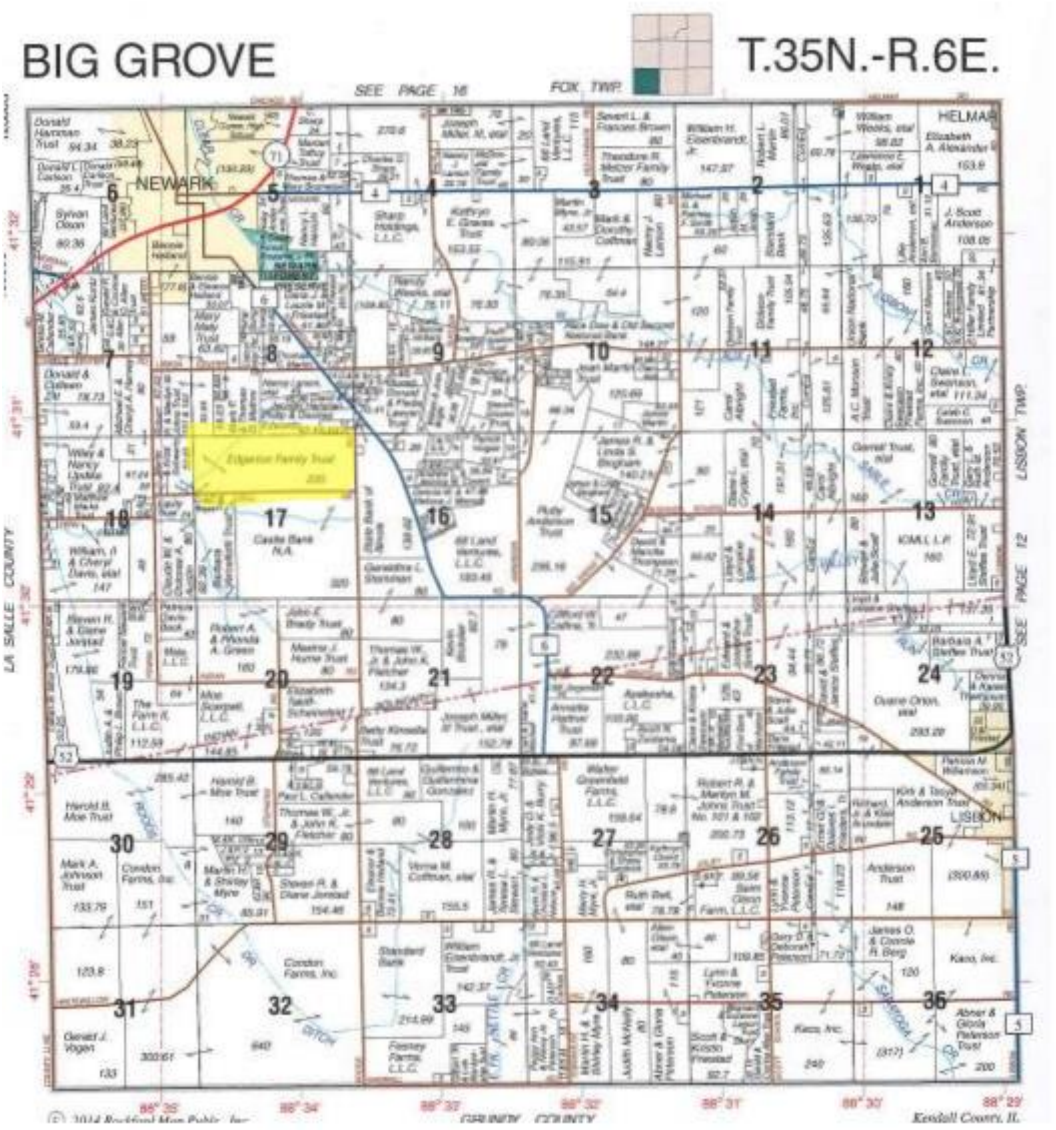
Biosolids Field Record

Site: LS Penoyer 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	7/21/2023	City of Aurora - Lime	301.14	36.5	109.92
Total			301.14		109.92

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Fern Dell Field 1
184 acres
Kendall County
Big Grove Township
Section 17



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Fern Dell Field 1
184 acres
Kendall County
Big Grove Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon 59A	SiL	0-2%	0.6-2.0 in/hr
La Rose silt 60B2		2-5%	0.06 to 0.60 in/hr
La Rose silt 60C2		5-10%	0.06 to 0.60 in/hr
La Rose silt 60C3		5-10%	0.06 to 0.60 in/hr
Saybrook 145 B	SiCL	1-3%	0.6-2.0 in/hr
Saybrook 145 B2	SiCL	2-5%	0.6-2.0 in/hr
Saybrook 145C2	SiCL	5-10%	0.6-2.0 in/hr
Strawn silt loam 224C2		5-10%	0.06 to 0.60 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr
Peotone silty clay loam		0-2%	0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Fern Dell 1
ACREAGE: 184
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Aurora Lime
2 Downers Grove Sanitary District
3 City of Naperville
4 DuPage
5 Lasma Lagoon 28
6 Lasma Cell 3, 4 and 5
7 Lasma cell 2 Marathon Lag 26
8 Glendale Heights

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	2/1/2022	0.007	0.032	0.836	0.029	0.007	0.076	0.000	0.000	0.000	0	0.005				1590.16	492.86
2	May-22	0.01	1.05	0.23	0.04	0.04	0.46	0.02	0	0.02	0.02				1512		149.68
3	May-22	0.01	3.3	1.47	0.08	0.07	4.34	0.02	0	0.04	0.05				3161		515.27
4	May-22	0	0.44	0.26	0.01	0.02	0.59	0	0	0	0.01				475		64.93
4	Jun-22	0	0.17	0.12	0.01	0.01	0.21	0	0	0	0				150		21.27
5	Jun-22	0.01	0.96	1.05	0.1	0.17	1.76	0.01	0	0.03	0.04					1288.26	251.21
6	Jun-22	0.01	1.5	1.64	0.14	0.29	2.8	0.04	0	0.04	0.04					1093.91	322.11
6	Oct-22	0.04	7.05	9.65	0.62	1.18	11.53	0.15	0.01	0.15	0.19					4434.91	1379.25
7	Oct-22	0.020	2.120	2.480	0.200	0.430	4.160	0.050	0.000	0.050	0.060					1427.51	443.95
8	July.23	0.000	0.050	0.090	0.000	0.000	0.090	0.000	0.000	0.000	0.000				100.00		13.50
5	July.23	0.100	9.430	10.520	0.980	1.900	19.480	0.200	0.010	0.200	0.350					5927.53	1979.80
1	July.23	0.005	0.079	0.868	0.037	0.005	0.129	0.000	0.000	0.000	0.000	0.015	5.38 pci/g			2392.82	993.72
	TOTAL	0.210	26.180	29.210	2.250	4.120	45.630	0.490	0.020	0.530	0.760	0.020	pci/g				
	%of LIMIT	2.1	10.5	3.2	2.3	0.4	9.1	0.5	0	6.6	4.7						

1	Background Radium	2.240	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.260	pci/g
4	% of Total Cumulative Limit	75.33	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

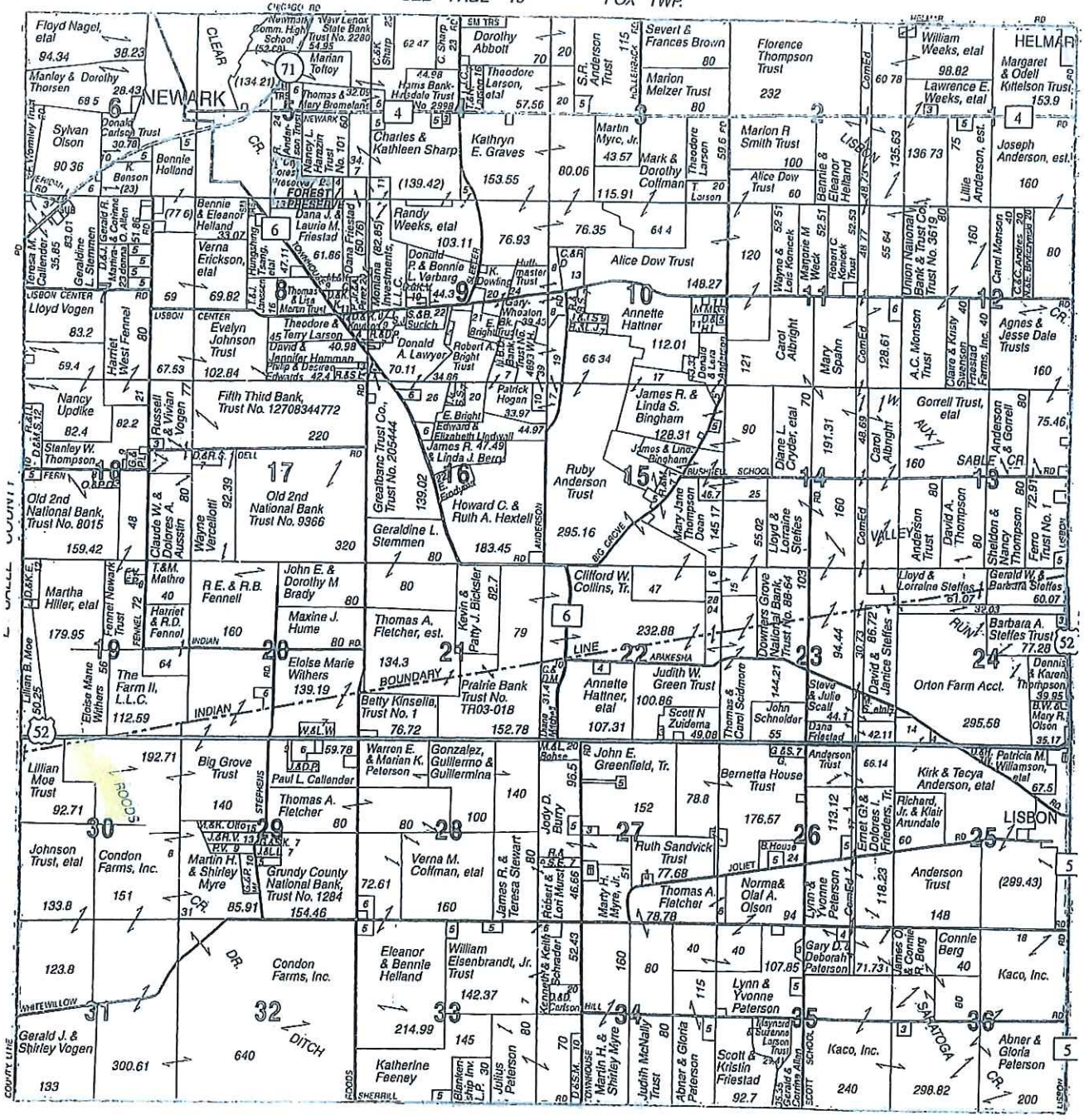
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 9
81 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.


SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON CENTER
FOREST PRESERVE
Floyd Nagel, etal
Manley & Dorothy Thorsen
Sylvan Olson
Donald Carlson Trust
Bennie Holland
Verna Erickson, etal
Bennie & Eleanor Helland
Dana J. & Laurie M. Friestad
Randy Weeks, etal
Charles & Kathleen Sharp
Kathryn E. Graves
Dorothy Abbott
Marian Tofoy
Thomas & Mary Bromelsiek
Newman Comm. High School
West Lenox State Bank Trust No. 2280
S.R. Anderson Trust
Severt & Frances Brown
Marion Melzer Trust
Florence Thompson Trust
Martin Myre, Jr.
Mark & Dorothy Coffman
Marion R Smith Trust
Alice Dow Trust
Bennie & Eleanor Helland
Wayne & Lois Konicek
Marjorie M Weck
Robert C Konicek Trust
Union National Bank & Trust Co. Trust No. 3619
Lillie Anderson, est.
Joseph Anderson, est.
William Weeks, etal
Lawrence E. Weeks, etal
Margaret & Odell Kittelson Trust
Carol Monson
Agnes & Jesse Dale Trusts
Claire & Kristy Swenson Friestad Farms, Inc.
A.C. Monson Trust
Annette Hattner
Alice Dow Trust
Gary-Whalen Trust
Donald P. & Bonnie Verbarg
Montana Investments, L.L.C.
Hutt master Trust
Lloyd Vogen
Evelyn Johnson Trust
Theodore & Terry Larson
David & Jennifer Hamman
Philip & Desiree Edwards
Harriet West Fennel
Nancy Updike
Stanley W. Thompson
Russell & Vivian Vogen
Fifth Third Bank, Trust No. 12708344772
Old 2nd National Bank, Trust No. 8015
Old 2nd National Bank Trust No. 9366
Wayne Vercelotti
Claude W. & Dolores A. Aussitin
Greatbanc Trust Co., Trust No. 205444
Geraldine L. Stemmen
Howard C. & Ruth A. Hextell
Patrick Hogan
James R. & Linda S. Bingham
Ruby Anderson Trust
Carol Albright
Mary Spahn
Diane L. Cryder, etal
Lloyd & Lorraine Steffes
Mary-Jane Thompson Doan
Gorrell Trust, etal
Anderson & Gorrell
Anderson Trust
David A. Thompson
Sheldon & Nancy Thompson
Ferro Trust No. 1
Gerald W. & Barbara Steffes
Barbara A. Steffes Trust
Dennis & Karen Thompson
Orton Farm Acct.
Martha Hiller, etal
Harriet & R.D. Fennel
R.E. & R.B. Fennell
John E. & Dorothy M Brady
Maxine J. Hume
Eloise Marie Withers
The Farm II, L.L.C.
Thomas A. Fletcher, est.
Kevin & Patty J. Bicksler
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
Clifford W. Collins, Tr.
Annette Hattner, etal
Judith W. Green Trust
Scott N Zuidema
Downers Grove National Bank, Trust No. 88-64
Thomas & Carol Sodmore
John Schneider
Steve & Julie Scali
David & Janice Steffes
Lillian Moe Trust
Johnson Trust, etal
Condon Farms, Inc.
Martin H. & Shirley Myre
Big Grove Trust
Paul L. Callender
Thomas A. Fletcher
Grundy County National Bank, Trust No. 1284
Warren E. & Marian K. Peterson
Gonzalez, Guillermo & Guillermina
Verna M. Coffman, etal
James R. & Teresa Stewart
Jody D. Burry
Robert & Lori Munstermann
John E. Greenfield, Tr.
Ruth Sandvick Trust
Thomas A. Fletcher
Bernetta House Trust
Norma & Olaf A. Olson
Lynn & Yvonne Peterson
Ernest G. & Dolores I. Frieders, Tr.
Richard, Jr. & Klair Arundale
Kirk & Tecya Anderson, etal
Patricia M. Williamson, etal
Anderson Trust
Gary D. & Deborah Peterson
James O. & Connie R. Berg
Connie Berg
Kaco, Inc.
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Kenneth & Keith Schrader
Judith McNally Trust
Abner & Gloria Peterson
Scott & Kristin Friestad
Raymond & Suzanne Larson Trust
Gerald J. & Shirley Vogen
Katherine Feeney
Julius Peterson
Blankenship Inv. L.P.
Marvin H. & Shirley Myre
Abner & Gloria Peterson
Condon Farms, Inc.
Grundy County National Bank, Trust No. 1284
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Kaco, Inc.
Abner & Gloria Peterson
Anderson Trust
(299.43)
Orton Farm Acct.
Barbara A. Steffes Trust
Dennis & Karen Thompson
Mary R. Olson
Patricia M. Williamson, etal
Kirk & Tecya Anderson, etal
Richard, Jr. & Klair Arundale
Ernest G. & Dolores I. Frieders, Tr.
Bernetta House Trust
Ruth Sandvick Trust
Thomas A. Fletcher
Norma & Olaf A. Olson
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
James O. & Connie R. Berg
Connie Berg
Kaco, Inc.
Abner & Gloria Peterson
Scott & Kristin Friestad
Raymond & Suzanne Larson Trust
Judith McNally Trust
Abner & Gloria Peterson
Marvin H. & Shirley Myre
Julius Peterson
Blankenship Inv. L.P.
Katherine Feeney
Gerald J. & Shirley Vogen
Condon Farms, Inc.
Johnson Trust, etal
Lillian Moe Trust
Lillian B. Moe
Eloise Marie Withers
Martha Hiller, etal
Harriet & R.D. Fennel
R.E. & R.B. Fennell
John E. & Dorothy M Brady
Maxine J. Hume
Eloise Marie Withers
The Farm II, L.L.C.
Thomas A. Fletcher, est.
Kevin & Patty J. Bicksler
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
Clifford W. Collins, Tr.
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Thomas & Carol Sodmore
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Russell & Vivian Vogen
Nancy Updike
Stanley W. Thompson
Lloyd Vogen
Evelyn Johnson Trust
Theodore & Terry Larson
David & Jennifer Hamman
Philip & Desiree Edwards
Harriet West Fennel

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 9
81 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Drummer, 152A	SiCL	0-2%
Elburn, 198A	SiL	0-2%
Varna, 223 B	SiL	2-4%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Strawn, 224C2	SiL	6-12%
Graymont, 541B	SiL	2-5%
Graymont, 541C2	SiL	5-10%



METAL LOADING RECORD

SITE NUMBER: 9
ACREAGE: 81
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 30

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Source of biosolids
1 LASMA - Lagoon # 30
2 Dupage County
3 LASMA- Lagoon 29
4 LASMA-Lagoon 28
5 Naperville
6 Aurora Lime

Metal Loadings in Pounds per Acre

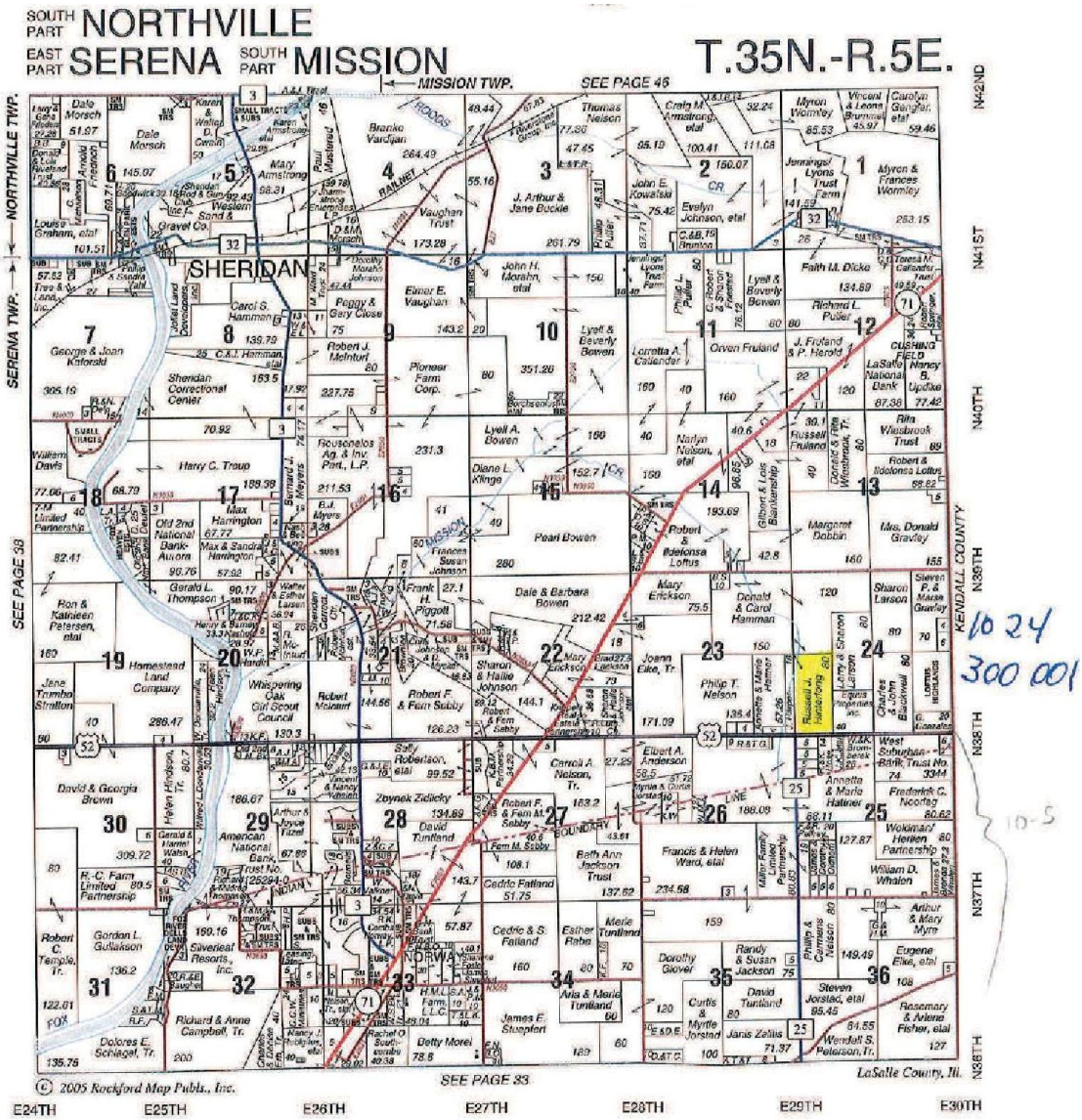
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Mar. 2012	0.08	8.17	9.67	0.82	2.33	16.40	0.16	0.03	0.10	0.33					3441.53	922.33
2	Nov. 2012	0.00	1.69	0.97	0.05	0.09	2.22	0.01	0.00	0.01	0.03					625	84.9
2	Dec. 2012	0.00	1.94	1.12	0.06	0.10	2.55	0.01	0.00	0.02	0.03					750	101.88
2	Jan. 2013	0.00	2.16	1.17	0.06	0.12	2.64	0.01	0.00	0.02	0.04					775	102.6441
2	Feb. 2013	0.00	2.16	1.17	0.06	0.12	2.64	0.01	0.00	0.02	0.04					100	13.2444
3	Nov-16	0.06	6.36	4.76	0.64	1.45	13.08	0.08	0.02	0.08	0.16					2850.85	610.08
4	Aug-17	0.02	2.33	1.70	0.24	0.62	4.93	0.04	0.00	0.03	0.04					855.5	214.73
5	Sep-20	0.01	6.58	3.40	0.21	0.13	8.57	0.05	0.01	0.05	0.05					2911.00	405.32
4	Aug-21	0.08	12.59	16.2	1.21	2.51	23.46	0.28	0.01	0.28	0.41					2923.15	1131.26
3	Aug-21	0	0.09	0.09	0.01	0.01	0.16	0	0	0	0					42.95	8.55
4	Sep-22	0.07	4.96	5.48	0.47	0.97	9.85	0.07	0	0.12	0.19					2211.57	488.76
4	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					1354.67	452.46
6	Jul-23	0.004	0.058	0.642	0.027	0.004	0.095	0	0	0	0	0.011	5.38 pci/g			887.46	326.00
	TOTAL	0.37	54.33	52.21	4.4	9.5	97.42	0.83	0.08	0.84	1.51	0.0110					
	%of LIMIT	3.7	21.7	5.8	4.4	1	19.5	0.8	0.1	10.5	9.4						

Background Radium		pci/g
Site Limit		pci/g
Cumulative total to Date	#VALUE!	pci/g
% of Total Cumulative Limit	#VALUE!	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

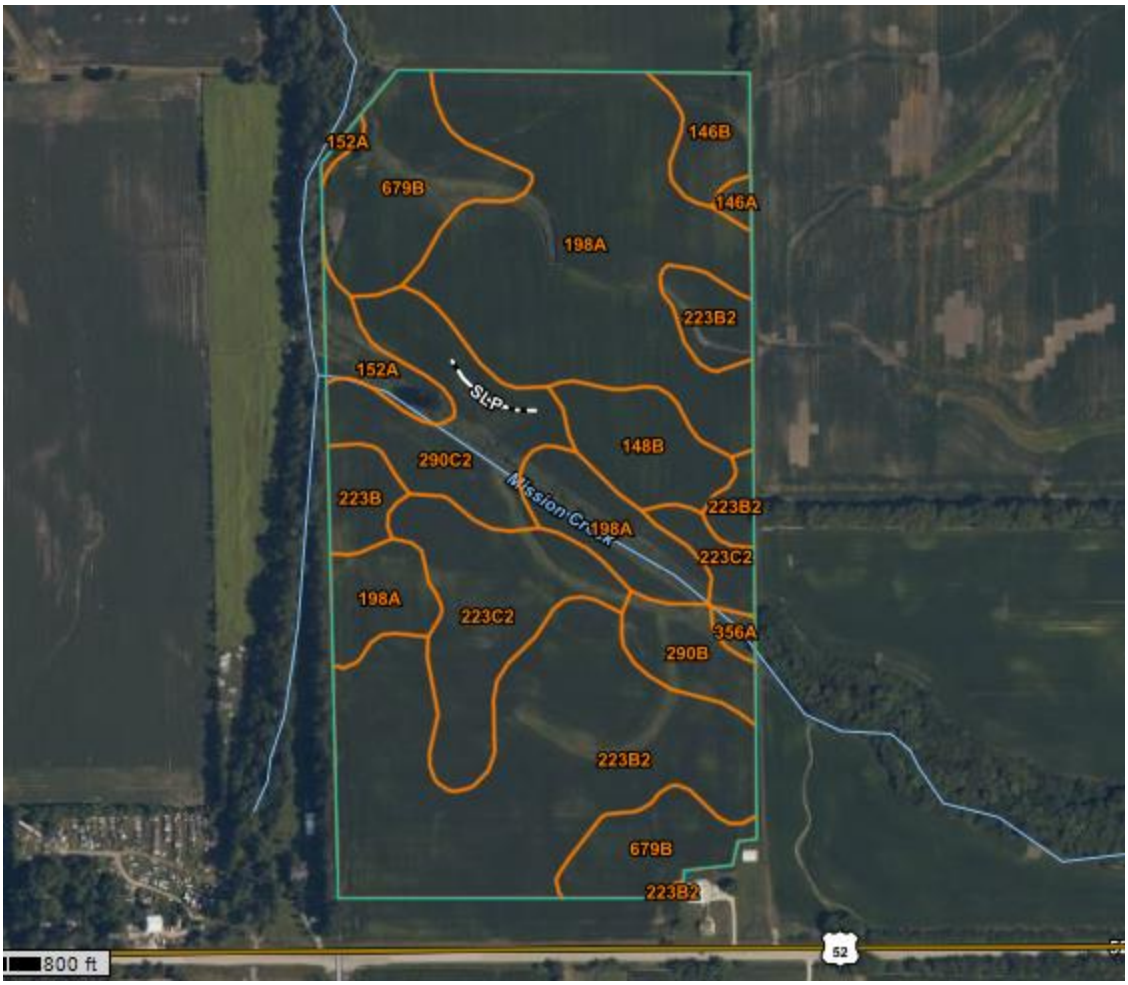
Plat Map

LS Bicksler 1
78.8 acres
LaSalle County
Serena Township
Section 24



LS Bicksler 1
78.8 acres
LaSalle County
Serena Township
Section 24

146A	Elliott silt loam, 0 to 2 percent slopes	0.3	0.4%
146B	Elliott silt loam, 2 to 4 percent slopes	1.9	2.7%
148B	Proctor silt loam, 2 to 5 percent slopes	3.1	4.3%
152A	Drummer silty clay loam, 0 to 2 percent slopes	1.7	2.4%
198A	Elburn silt loam, 0 to 2 percent slopes	21.4	30.0%
223B	Varna silt loam, 2 to 4 percent slopes	1.4	1.9%
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	18.2	25.5%
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	7.2	10.0%
290B	Warsaw silt loam, 2 to 4 percent slopes	2.0	2.9%
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	5.9	8.3%
356A	Elpaso silty clay loam, 0 to 2 percent slopes	0.3	0.5%
679B	Blackberry silt loam, 2 to 5 percent slopes	7.9	11.1%


152A
146B
679B
146A
198A
223B2
152A
SLP
148B
290C2
Mission Cr
223B
223B2
198A
223C2
198A
223C2
356A
290B
223B2
679B
223B2
800 ft
52

METAL LOADING RECORD

SITE NUMBER:	1	COUNTY:	LaSalle
ACREAGE:	78.8	TOWNSHIP:	Serena
		SECTION:	24
FARMER:	John Stewart		
ADDRESS:	3870 N. IL Route 71		
	Sheridan, IL 60551		
PHONE #:	815-695-5667		

Metal Loadings in Pounds per Acr

Source of biosolids

1 LASMA - Marathon
2 Lasma Lagoon 28
3 Bensenville
4 Wheaton
5 Aurora Lime
6 DuPage
7
8

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/l)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	August 2013	0.07	10.35	11.42	1.02	2.69	20.42	0.12	0.03	0.12	0.24					1194.24	440.67
1	July 2021	0.03	4.17	4.82	0.41	0.56	7.1	0.13	0	0.1	0.15					2007.28	393.43
3	July 2021	0	0.41	0.48	0.03	0.05	0.51	0.01	0	0.01	0.01				324		39.89
4	July 2021	0	0.13	0.04	0.01	0.02	0.34	0.01	0	0.01	0.01				108		11
5	July 2021	0.013	0.063	1.654	0.057	0.013	0.149	0.000	0.000	0.000	0.000	0.0100	3.57 pci/g			1126.3	416.29
6	August 2021	0.010	0.740	0.400	0.020	0.030	0.950	0.010	0.000	0.010	0.020				250		35.45
2	Sep-22	0.06	4.34	4.8	0.41	0.85	8.62	0.06	0	0.11	0.17					1861.97	411.50
5	Jul-23	0.004	0.057	0.626	0.027	0.004	0.093	0	0	0	0	0.0110	5.38 pci/g			772.05	313.30
	TOTAL	0.190	20.260	24.240	1.980	4.220	38.180	0.340	0.030	0.360	0.600	0.021	pci/g				
	%of LIMIT	1.9	8.1	2.7	2	0.4	7.6	0.3	0.1	4.5	3.7						

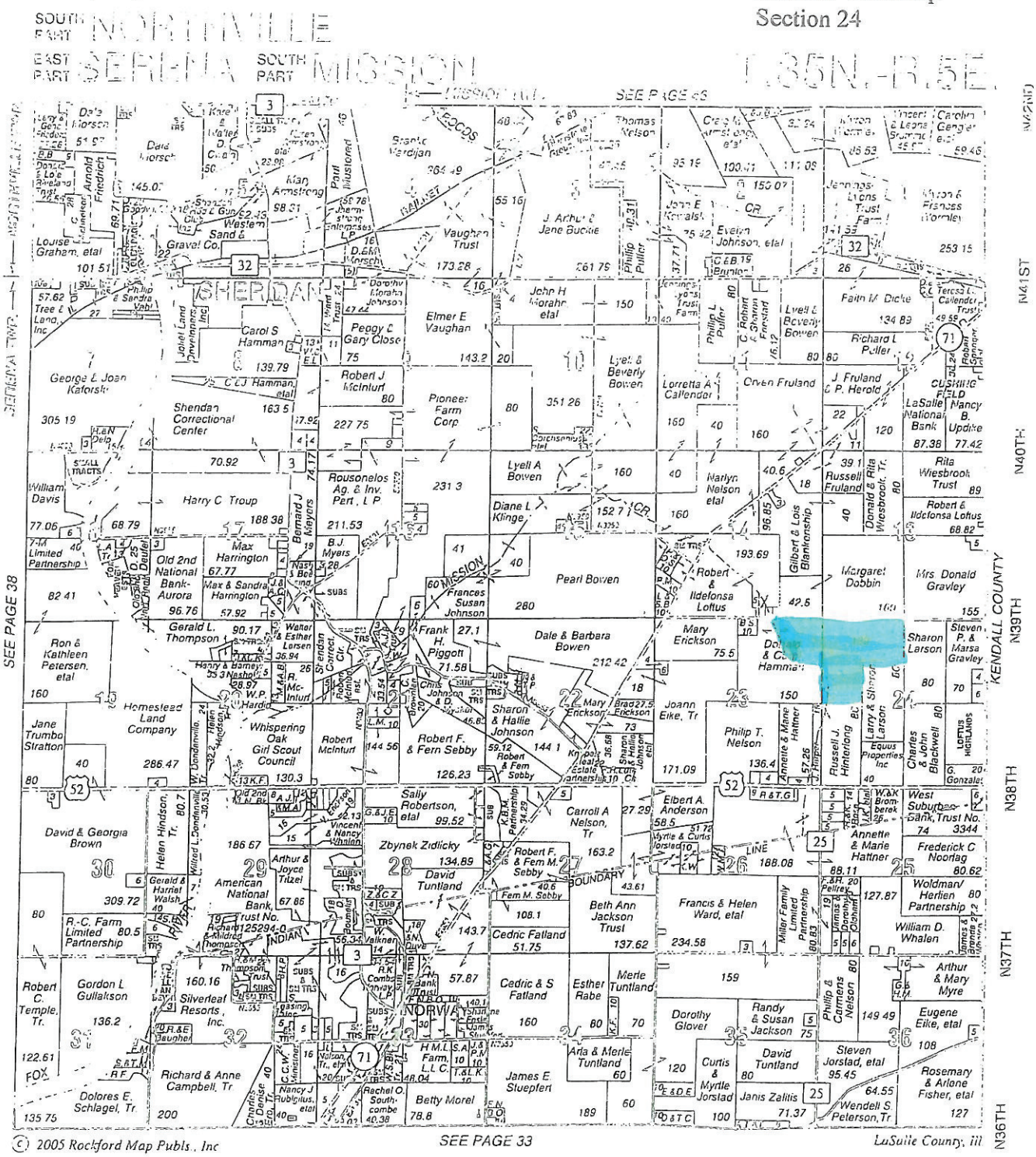
1	Background Radium	1.560	pci/g
2	Site Limit	2.560	pci/g
3	Cumulative Total to Date	1.581	pci/g
4	% of Total Cumulative Limit	61.76	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium is remainder of limit after background is removed
4 Includes Background and Applied Radiums

PLAT MAP

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 Acres
LaSalle County
Mission Township
Section 24



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LaSalle County, Ill

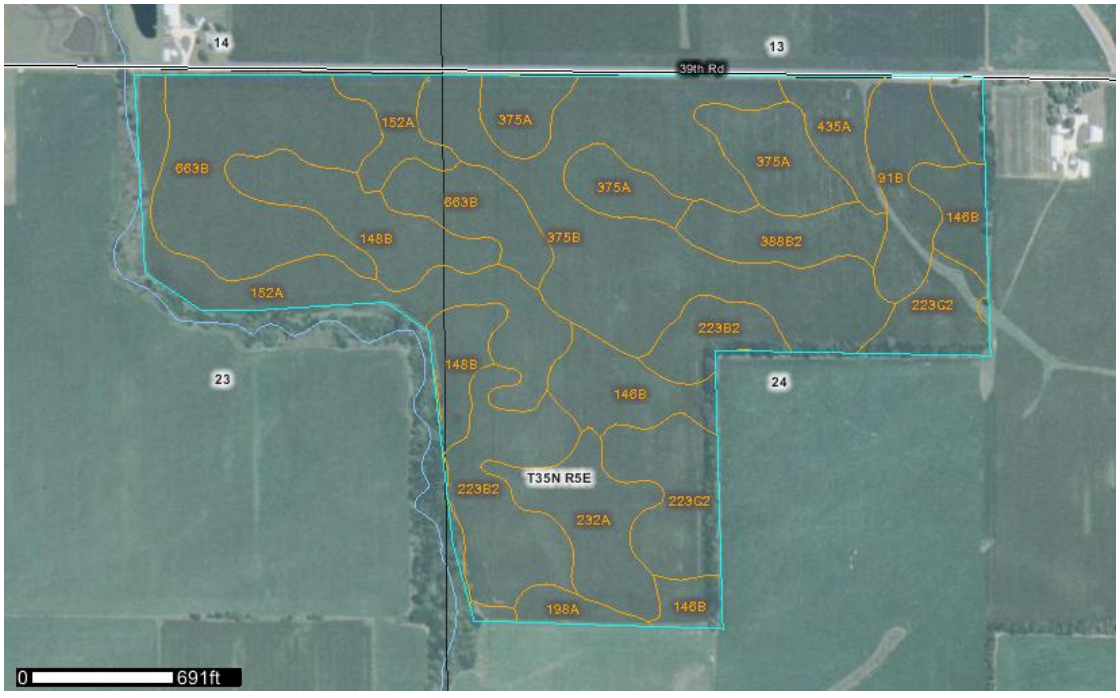
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SOIL SERIES

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 acres
LaSalle County
Mission Township
Section 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Swygert, 91B	SiCL	2-5 %	0.2-0.6 in/hr
Elliott, 146B	SiL	2-4 %	0.2-0.6 in/hr
Proctor, 148B	SiL	2-5%	0.2-0.6 in/hr
Drummer, 152A	SiL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiL	0-2 %	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4 %	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6 %	0.6-2.0 in/hr
Rutland, 375B	SiL	2-5 %	0.2-0.6 in/hr
Wenona, 388B2	SiCL	2-5 %	0.2-0.6 in/hr
Streator, 435A	SiCL	0-2 %	0.2-0.6 in/hr
Clare, 663B	SiL	2-5 %	0.2-0.6 in/hr
Blackberry, 679B	SiL	2-5 %	0.6-2.0 in/hr



METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 150
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: Spirit Farms/John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acre

Source of biosolids

1 Lasma-Lagoon 28
2 DuPage
3 Hasma
4 Lasma-Lagoon 29
5 Lasma-Lagoon 30
6 Egan
7 Lasma-Marathon
8 North Shore Sanitary District
9 Glenbard
10 Fox River Water Reclamation
11 Sheridan
12 Joliet West
13 Joliet East
14 Princeton
15 Marseilles
16 St. Charles
17 Wheaton
18 Huntley West
19 Bensenville
20 Geneva
21 Lasma cell 3
22 Aurora Lime
24 Huntley East
25 Hinckley
26 Plainfield
27 Naperville-Pile 2
28 Naperville-Pile 3
29 Quality Liquid Feeds

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**May 2010**	0.050	4.3600	6.590	0.460	1.190	9.350	0.12	0.01	0.09	0.16					4199.55	881.91
2	**May 2011**	0.010	6.570	3.840	0.180	0.330	6.990	0.04	0.01	0.08	0.11				1600		213.27
3	**May-11**	0.020	5.740	5.210	0.510	0.380	7.320	0.08	0.01	0.07	0.06					2269.21	462.92
4	**May-11**	0.01	1.16	1.30	0.11	0.25	2.11	0.12	0.00	0.02	0.03					619.78	146.89
5	**March2012**	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4486.99	1202.51
6	**October 2012**	0	0.58	0.54	0.05	0.03	0.72	0.01	0	0	0.01					67.71	16.79
5	**October 2012**	0.01	1.05	1.09	0.09	0.24	1.93	0.02	0	0.01	0.02					929.68	209.18
6	**Nov. 2012**	0	0.53	0.44	0.04	0.02	0.63	0.01	0	0	0.01					206.22	44.73
5	**December 2012**	0	0.6	0.62	0.05	0.14	1.1	0.01	0	0.01	0.01					525.99	118.35
7	**December 2012**	0.04	3.74	4.26	0.38	1.16	7.53	0.07	0.01	0.05	0.09					1565.85	735.95
3	**December 2012**	0	0.53	0.45	0.05	0.03	0.63	0.01	0	0	0.01					166.67	36.31739
2	**March 2013**	0	0.49	0.22	0.01	0.03	0.53	0	0	0	0.01				175		22.43483
2	**January 2014**	0	0.47	0.14	0.01	0.02	0.56	0	0	0	0.01				250		30.6489
8	**January 2014**	0.01	14.97	28.77	0.67	0.88	19.8	0.42	0.02	0	0					129.15	122.6925
2	**Febuary 2014**	0	0.92	0.27	0.02	0.05	1.1	0	0	0.01	0.01				725		73.56
2	**March 2014**	0	0.66	0.35	0.02	0.03	0.78	0	0	0	0.01				450		59.26
9	**Nov 2014**	0.01	4.45	1.35	0.1	0.18	5.11	0.0182	0.001	0.01	0				56		7.89
10	**Jan-15**	0.02	3.16	1.83	0.14	0.11	2.74	0.01	0.00	0.02	0.08	0.0085				120.11	15.73
9	**Feb-15**	0.00	0.38	0.09	0.01	0.01	0.12	0.00	0.00	0.00	0.00						
10	**Feb-15**	0.00	0.26	0.11	0.01	0.01	0.23	0.00	0.00	0.00	0.01	0.0004				293.82	35.55
14	**Feb-15**	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03				378		87.43
10	**Mar-15**	0.00	0.32	0.10	0.02	0.01	0.27	0.00	0.00	0.00	0.01						
9	**March 2015**	0	0.33	0.07	0.01	0.01	0.35	0.001	0.001	0	0					360.00	83.27
11	**Mar-15**	0.00	2.51	2.21	0.09	0.08	2.50	0.00	0.00	0.06	0.04						
10	**Apr-15**	0.02	2.51	0.78	0.13	0.08	2.05	0.01	0.00	0.02	0.05						
12	**Apr-15**	0.00	0.77	3.24	0.01	0.01	0.33	0.00	0.00	0.00	0.01						
13	**May-15**	1.00	5.18	18.68	0.44	0.26	1.06	1.00	0.01	0.01	0.04						
14	Nov-15	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03	0.002				629.48	104.49
10	Jan-16	0.01	0.98	0.78	0.05	0.03	0.82	0.00	0.00	0.01	0.02	0.001			162		44.7
11	Jan-16	0.28	0.18	0.13	0.01	0.01	0.18	0.00	0.00	0.01	0.00	0.013			281		128.83
15	Jan-16	0.00	0.92	4.99	0.04	0.09	1.03	0.01	0.00	0.02	0.01	0.004			75		15.13
16	Feb-16	0.00	0.07	0.34	0.01	0.00	0.11	0.00	0.00	0.00	0.00	0.029					
10	Apr-16	0.00	0.24	0.20	0.01	0.01	0.20	0.00	0.00	0.00	0.00	0.000				167.21	26.92
17	Apr-16	0.00	0.42	0.31	0.02	0.02	0.60	0.00	0.00	0.00	0.00				134		31.4
18	Apr-16	0.00	0.86	0.16	0.01	0.01	0.38	0.01	0.00	0.01	0.01	0.017			574		82.85
9	Apr-16	0.00	0.45	0.11	0.01	0.02	0.41	0.00	0.00	0.01	0.00				400		54.68
19	Apr-16	0.00	0.55	0.30	0.02	0.05	0.39	0.00	0.00	0.00	0.01				406		87.9
13	Jun-16	0.00	1.40	6.97	0.08	0.06	0.42	0.00	0.00	0.01	0.02	0.010			1120		133.12
20	Jun-16	0.00	0.43	0.67	0.02	0.02	0.84	0.01	0.00	0.01	0.01	0.009			552		95.04
2	Mar-17	0.00	0.44	0.42	0.01	0.02	0.57	0.00	0.00	0.00	0.01				250		32.05
2	Apr-17	0.00	2.51	2.37	0.07	0.10	3.06	0.02	0.00	0.02	0.04				1825		240.16
2	May-17	0.00	2.10	1.98	0.06	0.08	2.56	0.02	0.00	0.02	0.03				1450		190.81
2	Jun-17	0.00	1.01	1.07	0.05	0.04	1.21	0.01	0.00	0.01	0.02				750		103.79
21	Jun-18	0.06	6.48	6.28	0.64	1.33	12.41	0.15	0.01	0.07	0.17					2520.44	1076.23
22	Jun-18	0.01	0.037	0.49	0.032	0.006	0.094	0.00	0.00	0.00	0.00	0.007	5.5 pci/g			1035.86	382.3
18	Jul-18	0.01	0.900	0.16	0.010	0.010	0.430	0.01	0.00	0.01	0.01	0.010			554		56.44
24	Jul-18	0.00	0.210	0.06	0.280	0.270	0.000	0.32	0.02	0.00	0.00	0.010			100		11.04
11	Apr-19	0.00	0.080	0.07	0.000	0.000	0.080	0.00	0.00	0.00	0.00	0.003			125		28.76
25	Apr-19	0.00	0.140	0.01	0.000	0.000	0.060	0.00	0.00	0.00	0.00	0.000			106		10.44
22	Apr-19	0.00	0.020	0.35	0.019	0.002	0.048	0.00	0.00	0.00	0.00	0.007	7 pci/g		520.3		288.25
26	May-19	0.01	2.220	1.37	0.100	0.040	3.260	0.01	0.00	0.04	0.07				4287		545.95
26	Dec-19	0.07	0.320	0.21	0.020	0.010	0.400	0.00	0.00	0.01	0.01				800		109.28
2	Jan-20	0.00	1.130	0.66	0.060	0.060	1.500	0.01	0.00	0.01	0.02				875		115.15
2	Feb-20	0.00	1.340	0.95	0.040	0.050	1.830	0.02	0.00	0.02	0.03				1100		143.82
2	Mar-20	0.00	0.760	0.54	0.020	0.030	1.030	0.01	0.00	0.01	0.02				550		71.91
2	Apr-20	0.00	1.510	1.03	0.040	0.050	1.990	0.02	0.00	0.02	0.03				1150		150.36
27	Mar-21	0.02	2.670	1.44	0.080	0.050	3.880	0.04	0.01	0.04	0.04				3217		516.2
28	Mar-21	0.00	1.380	0.70	0.040	0.020	1.800	0.01	0.00	0.01	0.00				1441		222.66
2	Apr-21	0.00	0.110	0.06	0.000	0.000	0.140	0.00	0.00	0.00	0.00				75		9.3
1	Jul-21	0.01	1.390	1.60	0.140	0.190	2.360	0.04	0.00	0.03	0.05					1296.66	254.15
7	Sep-21	0.04	6.120	6.66	0.590	1.380	11.940	0.15	0.01	0.15	0.21					3298.81	1098.5
22	Sep-21	0.00	0.006	0.15	0.005	0.001	0.014	0.00	0.00	0.00	0.00	0.001				231.58	73.87
2	Jul-22	0.00	1.570	1.12	0.090	0.060	1.930	0.02	0.00	0.02	0.03				1200		170.14
1	Jul-22	0.03	2.850	3.27	0.290	0.500	5.130	0.08	0.00	0.08	0.11					2852.08	590.38
22	Jul-22	0.002	0.032	0.356	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006				808.36	332.69
29	Jul-22	0.000	0.000	0.000	0.000	0.000	0.490	0.000	0.000	0.000	0.000			120761		808.36	332.69
20	Sep-22	0.002	0.380	0.150	0.020	0.010	0.700	0.000	0.000	0.000	0.010	0.003			280		51.85
1	Sep-22	0.020	1.400	1.540	0.130	0.270	2.770	0.020	0.000	0.030	0.050					1089.59	240.8
1	Apr-23	0.050	4.260	4.770	0.420	0.820	8.300	0.100	0.000	0.100	0.110					3460.25	757.79
22	Jul-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			355.47	144.9
	TOTAL	1.904	119.029	440.490	7.868	13.192	165.085	3.198	0.150	1.341	2.265	0.1447					
	%of LIMIT	19	47.6	48.9	7.9	1.3	33	3.2	0	16.8	14.1	0.000	pci/g				

1	Background Radium	1.560	pci/g
2	Site Limit	2.560	pci/g
3	Cumulative total to Date	1.70	%
4	% of Total Cumulative Limit	66.58	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit

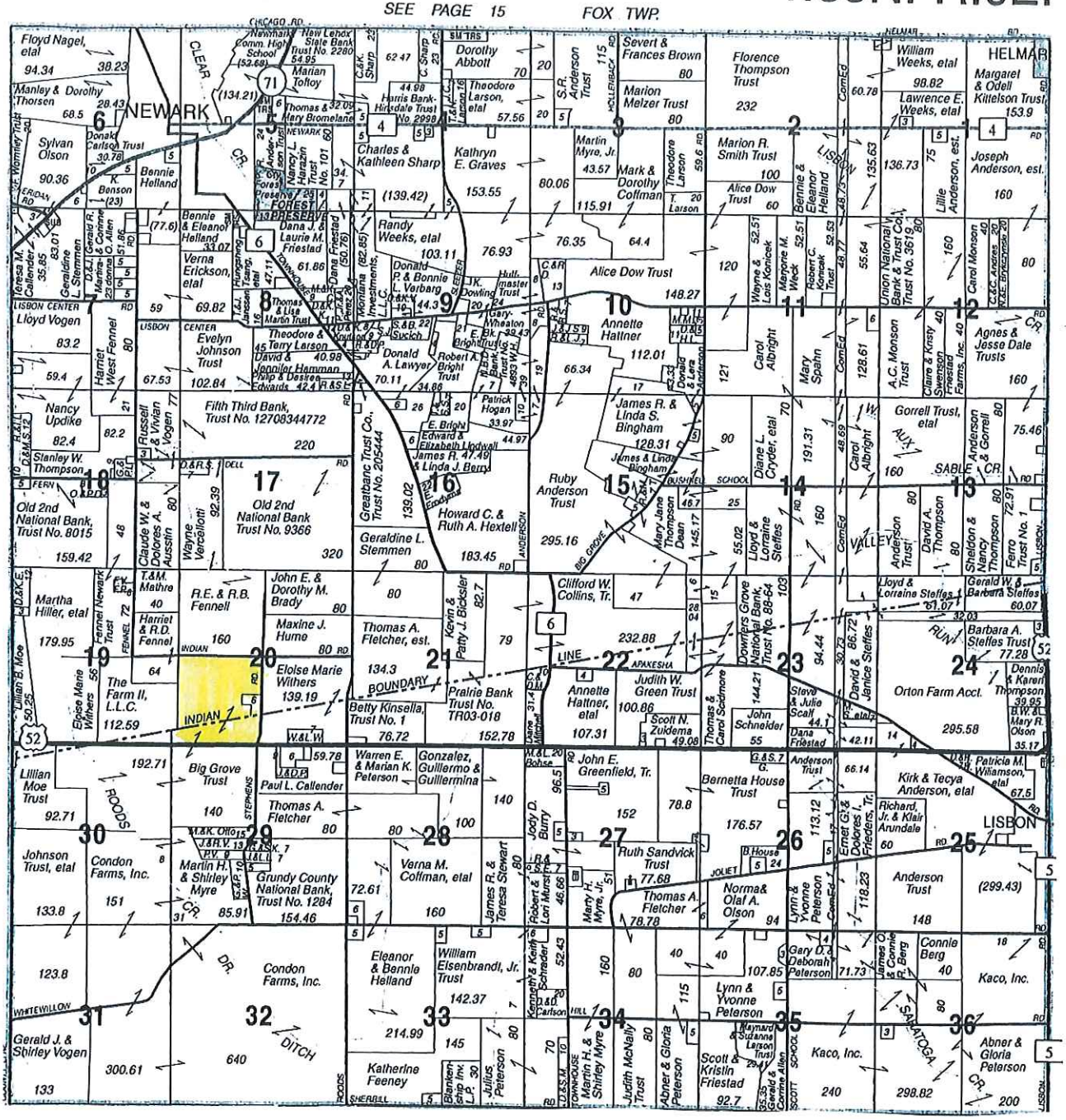
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

BIG GROVE

T.35N.-R.6E.


SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON CENTER
FOREST PRESERVE
Floyd Nagel, etal
Manley & Dorothy Thorsen
Sylvan Olson
Bennie Helland
Verna Erickson, etal
Lloyd Vogen
Harriet West Fennel
Nancy Updike
Stanley W. Thompson
Old 2nd National Bank, Trust No. 8015
Martha Hiller, etal
Lillian B. Moe
Fennel Newark Trust
The Farm II, L.L.C.
Elsie Marie Withers
Lillian Moe Trust
Johnson Trust, etal
Condon Farms, Inc.
Gerald J. & Shirley Vogen
Evelyn Johnson Trust
Fifth Third Bank, Trust No. 12708344772
Russell & Vivian Vogen
Claude W. & Dolores A. Ausstin
Wayne Vercelotti
Old 2nd National Bank Trust No. 9366
T.&M. Mathre
Harriet & R.D. Fennel
R.E. & R.B. Fennell
Maxine J. Humo
Big Grove Trust
Grundy County National Bank, Trust No. 1284
Martin H. & Shirley Myre
Paul L. Callender
Thomas A. Fletcher
Dorothy Abbott
Theodore Larson, etal
Charles & Kathleen Sharp
Kathryn E. Graves
Randy Weeks, etal
Donald P. & Bonnie L. Varbarg
Donald A. Lawyer
Patrick Hogan
Edward & Elizabeth Lodwall
James R. & Linda J. Berry
Howard C. & Ruth A. Hextell
Geraldine L. Stemmen
Greatbanc Trust Co., Trust No. 205444
Thomas A. Fletcher, est.
Kevin & Patty J. Bicksler
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
John E. & Dorothy M. Brady
Eloise Marie Withers
Warren E. & Marian K. Peterson
Gonzalez, Guillermo & Guillermina
Verna M. Coffman, etal
James R. & Teresa Stewart
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Katherine Feeney
Julius Peterson
Severt & Frances Brown
Florence Thompson Trust
Marion Melzer Trust
Marion R. Smith Trust
Alice Dow Trust
Mark & Dorothy Coffman
Martin Myre, Jr.
Theodore Larson
Bennie & Eleanor Helland
Robert C. Kovacek Trust
Wayne & Lois Konicek
Marjorie M. Weck
Union National Bank & Trust Co., Trust No. 3619
Lillie Anderson, est.
Joseph Anderson, est.
Carol Monson
C.M.C. Andres
K.M.E. Brylowski
William Weeks, etal
Margaret & Odell Kittelson Trust
Lawrence E. Weeks, etal
Annette Hattner
Ruby Anderson Trust
James R. & Linda S. Bingham
Mary Jane Thompson Dean
Clifford W. Collins, Tr.
Annette Hattner, etal
Judith W. Green Trust
Scott N. Zuidema
Thomas & Carol Sodmore
Downers Grove National Bank, Trust No. 88-84
Lloyd & Lorraine Steffes
John Schneider
Steve & Julie Scalf
Dana Friestad
David & Janice Steffes
Carol Albright
Mary Spahn
A.C. Monson Trust
Claire & Kristy Swenson
Swenson Farms, Inc.
Agnes & Jesse Dale Trusts
Gorrell Trust, etal
Anderson & Gorrell
Anderson Trust
David A. Thompson
Sheldon & Nancy Thompson
Ferro Trust No. 1
Lloyd & Lorraine Steffes
Gerald W. & Barbara Steffes
Barbara A. Steffes Trust
Dennis & Karen Thompson
B.W. & Mary R. Olson
Orton Farm Acct.
Patricia M. Williamson, etal
Kirk & Tecya Anderson, etal
Richard, Jr. & Klair Arundale
Ernest G. & Dolores I. Frieders, Tr.
Bernetta House Trust
Norma & Olaf A. Olson
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
Connie Berg
Kaco, Inc.
Abner & Gloria Peterson
Scott & Kristin Friestad
Judith McNally Trust
Martin H. & Shirley Myre
Ruth Sandvick Trust
John E. Greenfield, Tr.
Jody D. Burry
Robert & Lori Murset
Kenneth & Keith Schraeder
Eleanor & Bennie Helland
Julius Peterson
Blankenship Inv. L.P.
Condon Farms, Inc.
Grundy County National Bank, Trust No. 1284
Verna M. Coffman, etal
Thomas A. Fletcher
Paul L. Callender
Big Grove Trust
Johnson Trust, etal
Condon Farms, Inc.
Gerald J. & Shirley Vogen
Katherine Feeney
Julius Peterson
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Anderson Trust
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Martin H. & Shirley Myre
Julius Peterson
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Katherine Feeney
Gerald J. & Shirley Vogen
Johnson Trust, etal
Lillian Moe Trust
The Farm II, L.L.C.
Elsie Marie Withers
Martha Hiller, etal
Nancy Updike
Lloyd Vogen
Sylvan Olson
Floyd Nagel, etal
Manley & Dorothy Thorsen
Teresa M. Callender
Geraldine L. Stemmen
Gerald R. & Martina O. Allen
Gerald R. & Connie O. Allen
Bennie & Eleanor Helland
Verna Erickson, etal
Dana J. & Laurie M. Friestad
Dana Friestad
Thomas & Lisa Martin Trust
Evelyn Johnson Trust
Theodore & Terry Larson
David & Jennifer Hamman
Philip & Desiree Edwards
Donald A. Lawyer
Robert A. Bright Trust
Edward & Elizabeth Lodwall
James R. & Linda J. Berry
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Condon Farms, Inc.
Gerald J. & Shirley Vogen
Harriet West Fennel
Lloyd Vogen
Nancy Updike

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

SOIL SERIES	TEXTURE	% SLOPE
Lisbon, 59A	SiL	0-2%
La Rose, 60B2	SiL	2-5%
La Rose, 60C2	SiL	5-10%
La Rose, 60C3	CL	5-10%
Saybrook, 145B	SiL	2-5%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Peotone, 330A	SiCL	0-2%
Elpaso, 356A	SiCL	0-2%



METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 134
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 20

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Source of biosolids
1 LASMA - Lagoon #27
2 LASMA - Lagoon # 30
3 LASMA - Lagoon #28
4 DuPage
5 LASMA-Lagoon 29
6 LASMA Cell 4 and 5
7 Lasma Cell 1
8 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	Dec. 2011	0.02	2.56	3.35	0.24	0.72	4.98	0.06	0.01	0.03	0.05					1367.76	440.42	
2	Mar. 2012	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4249.86	1138.96	
2	October 2012	0.02	2.55	2.65	0.23	0.59	4.69	0.05	0.01	0.03	0.06					1962.82	441.63	
3	October 2012	0.02	1.87	2.13	0.19	0.5	3.67	0.03	0	0.03	0.04					1400.37	365.5	
4	July 2013	0.02	9.79	5.89	0.38	0.46	10.93	0.06	0.02	0.09	0.16					1400 cy.	195.05	Wheat (31 acres)
3	Aug-16	0.03	2.87	2.88	0.27	0.54	5.02	0.03	0	0.03	0.13					2006.15	441.35	
5	Nov-16	0.02	2.12	1.58	0.21	0.48	4.35	0.03	0.01	0.03	0.16					1595.98	341.54	
6	Aug-17	0.06	5.29	5.99	0.53	1.4	10.99	0.1	0.01	0.06	0.08					1959.99	784.00	
5	18-Aug	0.03	3.18	3.63	0.35	0.73	6.54	0.08	0.01	0.08	0.11					2205.19	545.78	
7	Jul-19	0.08	6.75	6.15	0.81	0.34	7.43	0.08	0.01	0.06	0.1					2419.97	784.07	
3	Jul-22	0.03	2.85	3.27	0.29	0.5	5.13	0.08	0	0.08	0.11					2460.99	509.42	
3	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					2245.53	750.01	
8	Jul-23	0.003	0.038	0.417	0.018	0.003	0.062	0.000	0.000	0.000	0.000	0.007	5.38 pci/g			911.87	343.6	
	TOTAL	0.45	51.65	346.47	4.72	9.18	87.73	0.87	0.11	0.71	1.45	0.0070						
	%of LIMIT	4.5	20.7	38.5	4.7	0.9	17.5	0.9	0.1	8.9	9							

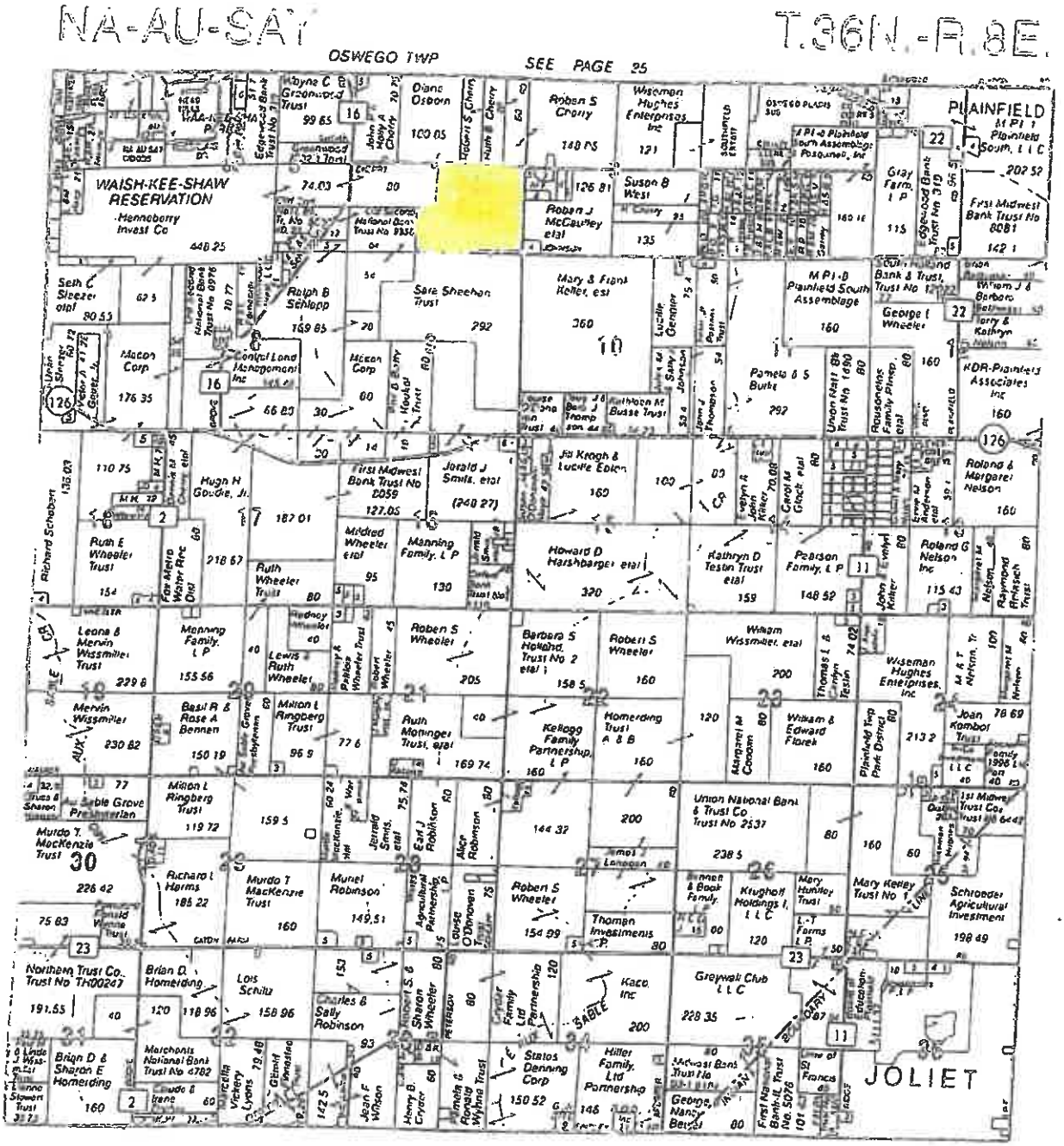
Background Radium		pci/g
Site Limit		pci/g
Cumulative total to Date	#VALUE!	pci/g
% of Total Cumulative Limit	#VALUE!	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

PLAT MAP

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 2
162.36 acres
Kendall County
Na-Au-Say Township
Section 4



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 2
162.36 acres
Kendall County
Na-Au-Say Township
Section 4

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon 59A	SiL	0-2%	0.6-2.0 in/hr
Saybrook 145 B	SiCL	1-3%	0.6-2.0 in/hr
Saybrook 145 B2	SiCL	2-5%	0.6-2.0 in/hr
Saybrook 145C2	SiCL	5-10%	0.6-2.0 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Stewart 2
ACREAGE: 162.36
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 4

FARMER: John Stewart
ADDRESS: 3870 N. Route 71
Sheridan, IL 60551
815-695-5667

Source of biosolids
1 LASMA - Lagoon #28
2 LASMA - Lagoon #29
3 LASMA - Lagoon #26
4 Plainfield
5 Barrington
6 LASMA - Lagoon #30
7 Aurora - Lime
8 LASMA-Marathon
9 Naperville

Metal Loadings in Pounds per Acre

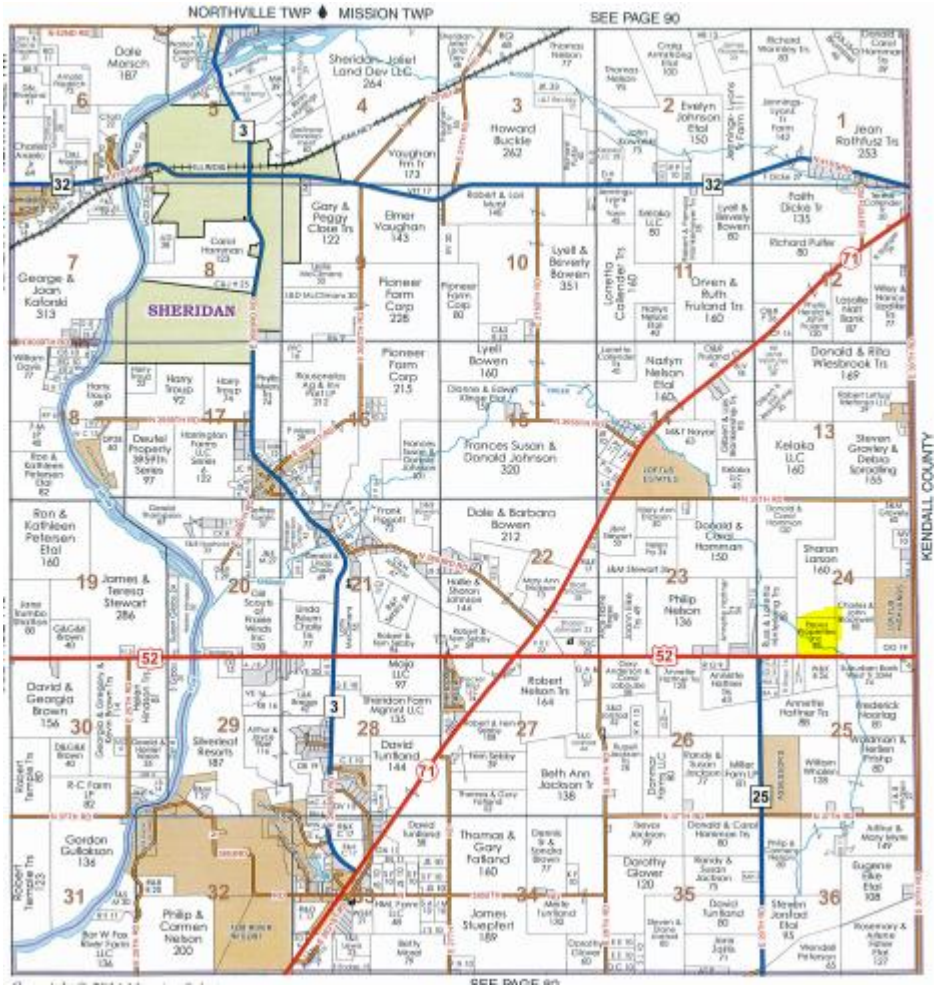
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Dec.2008	0.07	7.17	9.23	0.79	2.18	15.03	0.23	0.02	0.47	0.25						
2	Dec.2008	0	0.32	0.5	0.03	0.12	0.7	0	0	0	0.01						
1	Apr.2010	0.06	5.42	8.19	0.57	1.48	11.62	0.15	0.01	0.12	0.2						
3	Oct.2010	0.04	5.77	8.16	0.5	1.44	13.16	0.14	0.01	0.11	0.18						
4	Dec. 2011	0	1.7	1.18	0.08	0.07	2.27	0	0.003	0	0.03						
5	Mar. 2011	0	1.44	0.63	0.01	0.04	0.56	0.03	0	0.03	0						
4	Mar. 2011	0.002	0.87	0.59	0.04	0	1.1	0	0.001	0	0.02						
6	Oct. 2012	0.03	4.21	4.35	0.37	0.97	7.71	0.07	0.01	0.05	0.1					4217.6	948.96
7	11/15/2012	0.000	0.032	0.876	0.034	0.009	0.217	0.000	0.000	0.000	0.000	0.0130				1327.35	418.19
8	6/1/2016	0.080	6.350	7.650	0.630	1.650	13.480	0.110	0.000	0.085	0.190					5516.15	1252.17
1	11/1/2016	0.060	6.830	5.470	0.760	1.980	14.570	0.100	0.010	0.080	0.160					6132.47	1453.40
9	Dec.2017	0.010	5.160	2.900	0.170	0.130	8.250	0.050	0.010	0.050	0.080						848.66
7	Dec.2017	0.008	0.028	0.368	0.024	0.005	0.071	0.000	0.000	0.000	0.000	0.0050	5.5 pci/g			817.06	339.26
1	19-Sep	0.030	4.810	6.910	0.510	0.960	9.780	0.180	0.010	0.060	0.040					3212.86	1028.11
8	19-Sep	0.080	6.400	7.190	0.620	1.500	12.550	0.140	0.010	0.070	0.170					2919.79	1176.79
1	20-Sep	0.010	2.190	2.600	0.200	0.490	4.140	0.060	0.000	0.020	0.070					1496.54	417.53
6	20-Sep	0.060	7.290	8.000	0.210	1.640	13.990	0.180	0.010	0.080	0.210					4312.78	1319.71
7	20-Sep	0.012	0.046	0.934	0.043	0.012	0.112	0.000	0.000	0.000	0.000	0.0090	6.25 pci/g			1587.58	525.28
9	21-Aug	0.020	5.340	2.500	0.220	0.130	6.630	0.050	0.010	0.060	0.070				4452		733.27
4	21-Sep	0.014	1.070	0.620	0.060	0.020	1.460	0.020	0.001	0.020	0.030				2352		317.1
1	22-Sep	0.070	4.810	5.320	0.450	0.940	9.560	0.070	0.000	0.120	0.190					4875.92	1077.58
1	22-Oct	0.000	0.120	0.000	0.010	0.020	0.250	0.000	0.000	0.000	0.000					98.38	22.63
1	23-Jul	0.100	9.430	10.520	0.980	1.900	19.480	0.200	0.010	0.200	0.350					5003.1	1671.04
7	23-Jul	0.002	0.029	0.319	0.014	0.002	0.047	0.000	0.000	0.000	0.000	0.0050	5.38 pci/g			801.71	323.95
	TOTAL	0.76	86.84	95.01	7.33	17.69	166.74	1.78	0.13	1.63	2.35	0.032	pci/g				
	%of LIMIT	7.6	34.7	10.6	7.3	1.8	33.3	1.8	0.1	20.4	14.6						

1	Background Radium	1.450	pci/g
2	Site Limit	2.450	pci/g
3	Cumulative total to Date	1.482	pci/g
4	% of Total Cumulative Limit	60.49	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart

LS Penoyer 1
29 acrse
LaSalle County
Mission Township
Section 24



John Stewart
3870 N IL Rt 71
Sheridan, IL 60551
815-695-5667

LS Penoyer 1
29 acres
LaSalle County
Mission Township
Section 24

223B	Varna silt loam, 2 to 4 percent slopes	8.7	25.1%	0.06 to 0.20 in/hr
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	1.2	3.4%	0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	7.8	22.5%	0.06 to 0.20 in/hr
290B	Warsaw silt loam, 2 to 4 percent slopes	0.4	1.1%	0.60 to 2.00 in/hr
293A	Andres silt loam, 0 to 2 percent slopes	4.4	12.7%	0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.9	28.5%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	1.7	4.8%	0.06 to 0.20 in/hr
679B	Blackberry silt loam, 2 to 5 percent slopes	0.7	1.9%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: LS Penoyer 1
ACREAGE: 29
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 3
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-21	0.03	5.57	6.49	0.63	1.02	9.52	0.17	0	0.13	0.2					940.44	189.97
2	Sep-21	0.050	6.590	7.180	0.630	1.490	12.860	0.160	0.010	0.160	0.220					683.77	227.7
3	Sep-21	0.003	0.015	0.384	0.013	0.003	0.035	0.000	0.000	0.000	0.000	0.002	3.57 pci/g			111.7	35.63
1	Sep-22	0.080	5.580	6.170	0.530	1.090	11.080	0.080	0.010	0.140	0.220					889.79	196.64
3	Jul-23	0.004	0.055	0.608	0.026	0.004	0.090	0.000	0.000	0.000	0.000	0.010	5.38 pci/g			301.14	109.92
	TOTAL	0.17	17.81	20.83	1.83	3.61	33.59	0.41	0.02	0.43	0.64	0.012	pci/g				
	%of LIMIT	1.7	7.1	2.3	1.8	0.4	6.7	0.4	0	5.4	4						

1	Background Radium	2.090	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.102	pci/g
4	% of Total Cumulative Limit	70.07	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0202

KE Fern Dell 1 **07-18-200-023** **07-17-100-001**		2/01/2022 3/15/2022 9/28/2022 3/15/2023 6/15/2023
MARTIN A & KRISTI A SCHWARTZ 8308 WALKER RD YORKVILLE, IL, 60560	EMERY ZAHN LIV TR PO BOX 116 ROCHELLE, IL, 61068	
ROBERT R TRUST 101 & JOHNS MARILYN M TRUST 102 JOHNS 14975 LISBON CENTER RD NEWARK, IL, 60541	MATHRE, THOMAS O MATHRE MARK P 10820 NEWARK RD NEWARK, IL, 60541	PHILIP A & DESIREE D EDWARDS 997 HARVEY RD OSWEGO, IL, 60543
LIDIO PASILLAS 13979 ROODS RD NEWARK, IL, 60541	STATE BANK OF ILLINOIS. 1107 A S BRIDGE ST YORKVILLE, IL, 60560	J ROGER & JOYCE E CLAMPITT 14024 ROODS RD NEWARK, IL, 60541
SUMMIT AG FUND III LLP 10640 HWY D20 ALDEN, IA, 50006	BARBARA TRUST VERCELLOTTI 1540 ROUTE 59 JOLIET, IL, 60431	DUANE & ELLEN SARTOR TR 16970 FERN DELL RD NEWARK, IL, 60541
FBO MATTHEW G MARKS 14135 FENNEL RD NEWARK, IL, 60541	NED B & CONNIE A NORQUIST 14385 FENNEL RD NEWARK, IL, 60541	MATTHEW G MARKS TRUST 14135 FENNEL RD NEWARK, IL, 60541
	Kendall County Health Department 811 W. John Street Yorkville, IL 60560	Big Grove Jeff Mathre P.O. Box 538 Newark, IL 60541

	KE Moe 1,6,7,9,&10 **6/15/2023**	**BIG GROVE** **Jeff Mathre** **P.O.Box 538** **Newark IL 60541**
The Farm II LLC 3201 Greenwood Ln St Charles, IL 60175	Judith Brown 1005 Valley Ln Lockport, IL 60441	Thom Fletcher Estate 681 Lisbon Center Rd Newark, IL 60541
Robert Fisher 4187 Whitewillow Rd Minooka, IL 60447	Jim Laesch 16640 Stephens Rd Newark, IL 60541	George Thomas 16726 Stephens Rd Newark, IL 60541
Martin Myre 15665 Whitewillow Rd Newark, IL 60541	Martha Hiller 11408 Newark Rd Newark, IL 60541	Paul Callender 1783 335th Ave Charlotte, IA 52731

LS Bicksler 1

10-24-300-000

6/15/2023

Russ Hinterlong
2921 E. IL St. Rte. 52
Sheridan, IL 60551

Sharon Larson
2956 N. 39th Rd.
Sheridan, IL 60551

Equus Properties, Inc
110 Linden Ct.
Naperville, IL 60540

Jeffery Kerkman
2926 EIL St. Tr.52
Sheridan, IL 60551

Richard Rose
914 N. 3rd Ave.
Marywood, IL 60153

Randall Carroll TR
24623 Mound Rd.
Shorewood, IL 60431

Annette Hattner
12924 E. 2400th St
Annawan, IL 61234

Don Harper Jr.
2885 E. IL St. rt52
Sheridan,IL 60551

William Susralski
2899 E. IL Rt. 52
Sheridan, IL 60551

LaSalle County Health Department
717 E Etna Road
Ottawa, IL 61350

Serena Township Commissioner
Robert Rosengren
P.O. Box 212
Serena, IL 60549

Sharon M Larson 2956 N 39th Rd Sheridan, IL 60551	Donald J Hamman 13351 Faxon Rd Plano, IL 60545	**Donald B Harper Jr** **2885 E IL Rt 52** **Sheridan, IL 60551**
LaSalle County Health Dept 717 E Etna Rd, Ottawa, IL 61350	**Kelaka LLC** **181 S Lincolnway** **North Aurora IL, 60542**	**Debra Spradling** **3945 E 30th rd** **Newark IL 60541**
Annette Hattner **25421 N 3000Th Ave** **Prophetstown IL 61277**	**Stan Albright** **2861 N 39th Rd** **Sheridan IL 60551**	
		LS Hamman 5
LaSalle County Health Dept. **717 E Etna Rd,** **Ottawa, IL 61350**	10-24-111-000 10-23-210-000	**Sent 6.15.2023**
Mission **Ken Thompson** **325 S. Dwight St** **PO Box 292** **Sheridan, IL 60551**		

	KE MOE 7 & 8	6/15/2023
MAJA LLC 1444 N. Farnsworth Ave. Suite 500 Aurora, IL 60505	Maxine J. Hume 502 E. Benton Street Newark, IL 60541	Big Grove Jeff Mathre P.O. Box 538 Newark, IL 60541
Matthew Monsess 15824 Stephens Road Newark, IL 60541	First Midwest Bank 2801 W. Jefferson Street Joliet, IL 60435	
Paul Callender 1783 335th Avenue Charlotte, IA 52731	Martin Myre 15665 White Willow Road Newark, IL 60541	
Philip L. Brown 1005 Valley Lane Lockport, IL 60441	Moe Scarpati LLC 415 Walnut Street Yorkville, IL 60560	
JEREMY & BOBBIE JEAN JOHNSON 16501 INDIAN RD NEWARK, IL, 60541	Kendall County Health Department 811 W. John Street Yorkville, IL 60560	
Bernard Moe LIV Tr 364 S Main St Oswego IL, 60543	Allen Corinne Trust 3545 W Nettle Creek Dr Morris IL, 60450	Jeemy & Bobbie Jean Johnson 16501 Indian Rd Newark IL, 60541
Hume Maxine J Trust 175 West Dupont Morris IL, 60450	Elizabeth Takiff Scheinefeld PO 546 Highland Park IL 60035	Wayne K Withers 9386 Taylor Rd Magnolia IL 61336
Cary W & Pamela J Lieser 16420 US Hwy 52 Newark IL, 60541	Farm II LLC 1208 Bellevue Dr Dekalb IL, 60115	

Joyce Schlapp **202 E. Main Street** **Yorkville, IL 60560**	**KE Stewart 2**	**Na-Au-Say** **Ken Hostert** **1525 Cherry Road** **Oswego IL 60543**
Inishowen LLC 11720 S. Homes Street Palos Heights, IL 60464	Henneberry East LLC 2679 Route 34 Oswego, IL 60543	Old 2nd National Bank 6927 Grove Road Oswego, IL 60543
Mary Keller 8814 Walker Road Yorkville, IL 60560	Neil McCauley 2823 Melrose Lane Naperville, IL 60560	Sarah Hopkins Sheehan Trust 112 N. Vermillion Street Danville, IL 61832
Kendall County Health Dept. 811 John St, Yorkville, IL 60560	Robert Scott Cherry 6069 Schlapp Road Oswego, IL 60543	Sent 6/15/22 6/15/2023

LS Penoyer 1		6/15/2022 6/15/2023
LaSalle County Health Dept. 717 E Etna Rd, Ottawa, IL 61350	Ken Thompson, Mission Township 325 S. Dwight St PO Box 292 Sheridan, IL 60551	
Russ Hinterlong 2921 E. IL St. Rte. 52 Sheridan, IL 60551	Sharon Larson 2956 N. 39th Rd. Sheridan, IL 60551	Equus Properties, Inc 110 Linden Ct. Naperville, IL 60540
Jeffery Kerkman 2926 EIL St. Tr.52 Sheridan, IL 60551	Richard Rose 914 N. 3rd Ave. Marywood, IL 60153	Randall Carroll TR 24623 Mound Rd. Shorewood, IL 60431
Annette Hattner 12924 E. 2400th St Annawan, IL 61234	Don Harper Jr. 2885 E. IL St. rt52 Sheridan,IL 60551	William Susralski 2899 E. IL Rt. 52 Sheridan, IL 60551

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Fern Dell 1

6.) Size of Area Where Lime is to be Used: 184 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1500 w.t.

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County,

6.) Size of Area Where Lime is to be Used: 81 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

[signature] 5/10/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Bicksler 1

6.) Size of Area Where Lime is to be Used: 78.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 1100 wet tons

Years Applied 2021

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/13/23

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: LS Hamman 5

6.) Size of Area Where Lime Residuals are to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1800 wet tons

Years Applied 2019 and 2021 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stark 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0217

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, KE Moe 8

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator _____
Amount Applied _____
Years Applied _____

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

[signature] 5/10/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0219

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Section 4 KE Stewart 2

6.) Size of Area Where Lime is to be Used: 162.36 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? (Yes) No (Circle One)
Name of Generator Aurora Lime
Amount Applied Approx 1500 wet tons
Years Applied 2020

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Mission Township, Section 24 LS Penoyer 1

6.) Size of Area Where Lime is to be Used: 29 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: see soil analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied 900 wet tons
Years Applied 2021

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

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4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

September 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for August 2023. This report includes all land application work done by Stewart Spreading for August 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: August 2023

Billie M Marks

Name	Date	Telephone
	9/15/23	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/20/22					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/20/22		Preparation Date: 07/20/22			
Analyzed By: KJM		Prepped By: KJM			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/19/22					
Analyzed By: SLO					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/18/22					
Analyzed By: KJM					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/19/22		Preparation Date: 07/18/22			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		617	10.0	mg/kg	
Arsenic		< 1.0	1.0	mg/kg	
Barium		202	0.5	mg/kg	
→ Cadmium		< 0.5	0.5	mg/kg	
Calcium		335,000	50	mg/kg	
Chromium		4.9	0.5	mg/kg	
Cobalt		< 0.5	0.5	mg/kg	

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/19/22		Preparation Date: 07/18/22		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.3	0.5	mg/kg	
Iron	6,630	5.0	mg/kg	
Magnesium	18,000	50	mg/kg	
Lead	< 0.5	0.5	mg/kg	
Manganese	80.2	0.5	mg/kg	
Nickel	3.4	0.5	mg/kg	
Potassium	108	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	749	50	mg/kg	
Vanadium	2.9	1.0	mg/kg	
Zinc	11.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/19/22				
Analyzed By: SLO				
Mercury	< 0.05	0.05	mg/kg	
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/21/22				
Analyzed By: KEF				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 07/21/22				
Analyzed By: EMS				
COD, Soluble	908	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/22/22				
Analyzed By: NZ				
Acidity, Total	< 250	50	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/22				
Analyzed By: NZ				
Alkalinity, Total (as CaCO3)	< 250	50	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **August 2023**

Biosolids Field Record

Site: LS Bill Mitchell 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/15/2023	8/11/2023	City of Aurora - Lime	231.24	49.53	114.53
6/22/2023	8/11/2023	City of Aurora - Lime	720.63	40.5	291.86
Total			951.87		406.39

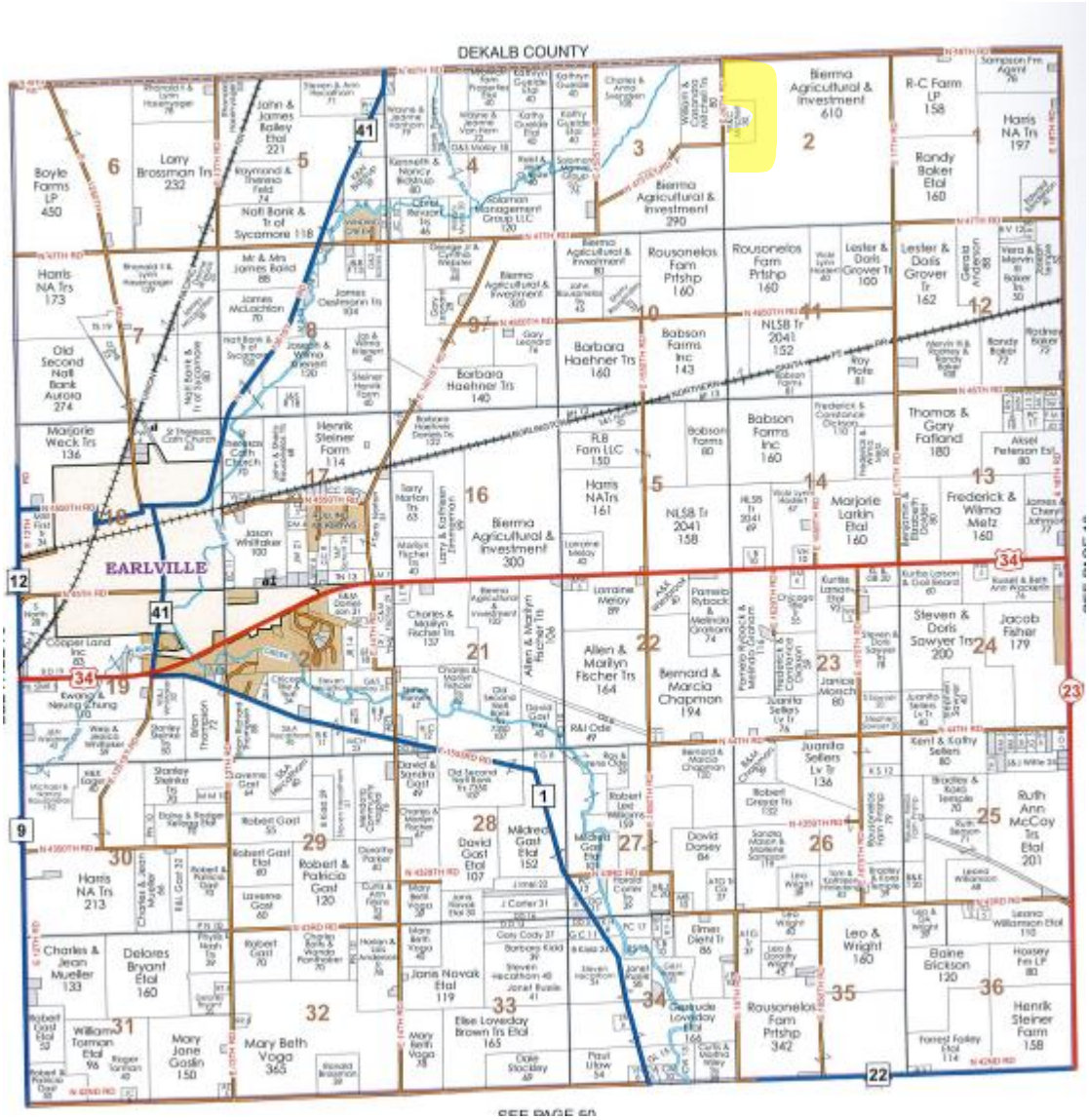
Biosolids Field Record

Site: LS Swenson 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	8/24/2023	City of Aurora - Lime	26.42	36.5	9.64
7/10/2023	8/24/2023	City of Aurora - Lime	444.73	53.4	237.49
Total			471.15		247.13

Bill Mitchell

LS Bill Mitchell 2
80 acres
LaSalle County
Earl Township
Section 2



Bill Mitchell

LS Bill Mitchell 2
80 acres
LaSalle County
Earl Township
Section 2

67A	Harpster silty clay loam, 0 to 2 percent slopes	5.4	7.0%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.8	7.6%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	25.0	32.6%	0.60 to 2.00 in/hr
171B	Catlin silt loam, 2 to 5 percent slopes	12.1	15.8%	0.20 to 0.60 in/hr
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	7.9	10.4%	0.20 to 0.60 in/hr
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded	1.5	2.0%	0.20 to 0.60 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	0.0	0.0%	0.06 to 0.20 in/hr
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded	2.1	2.8%	0.20 to 0.60 in/hr
234A	Sunbury silt loam, 0 to 2 percent slopes	14.1	18.4%	0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER:	LS Bill Mitchell 2	COUNTY:	LaSalle
ACREAGE:	80	TOWNSHIP:	Earl
		SECTION:	2
FARMER:	Bill Mitchell		
ADDRESS:	4762 E 16th Rd		
	815-739-1317		

Metal Loadings in Pounds per Acr

	Source of biosolids
1	Aurora Lime
2	
3	
4	
5	
6	

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	August-23	0.005	0.074	0.815	0.035	0.005	0.121	0	0	0	0	0.014	5.38 pci/g
	TOTAL	0.01	0.07	0.82	0.04	0.01	0.12	0	0	0	0	0.014	pci/g
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0		

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.374	pci/g
4	% of Total Cumulative Limit	79.13	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

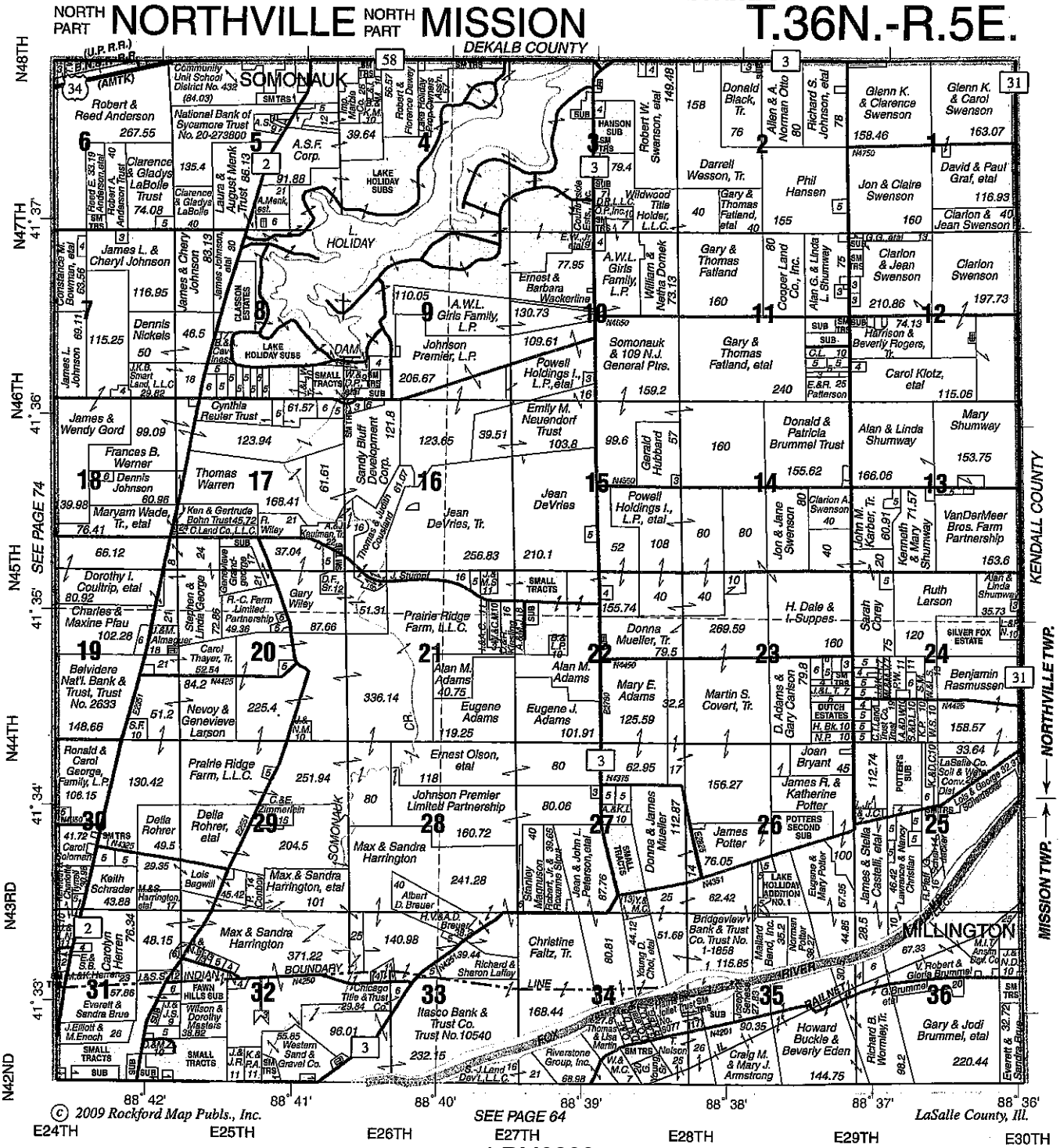
3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1

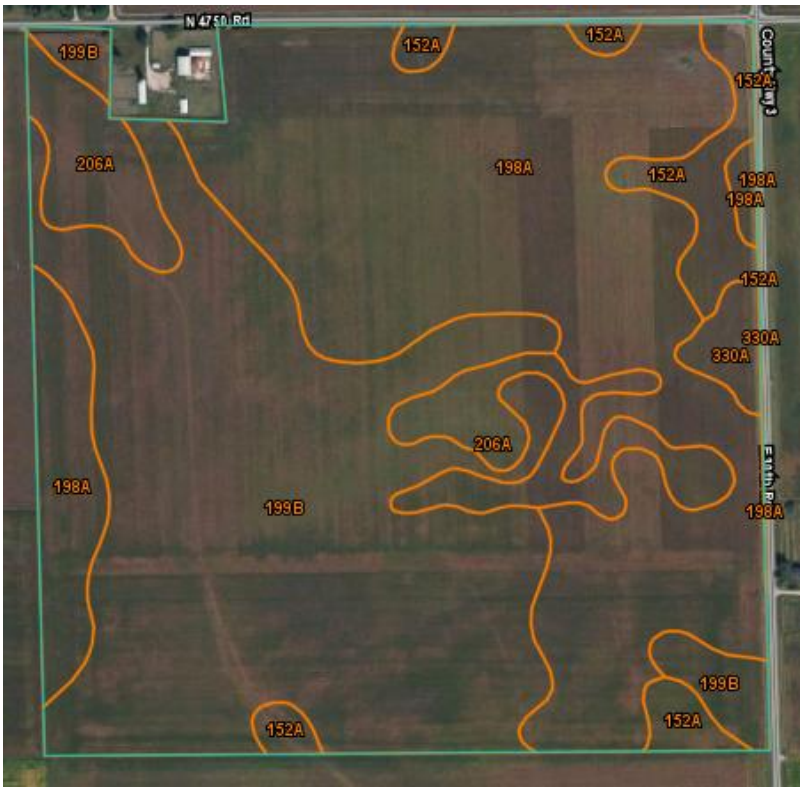


LRM0233

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
	TOTAL	0.04	0.16	2.25	0.11	0.03	0.4	0	0	0	0	0.029	pci/g	
	%of LIMIT	0.4	0.1	0.3	0.1	0	0.1	0	0	0	0			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.650	pci/g
4	% of Total Cumulative Limit	88.33	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0236

Otto Farms
506 E Pleasant Ave
Sandwich, IL 60548

Dan Terlap
6911 Meadow Dr
Crystal Lake, IL 60012

LS SWENSON 8

Glen Swenson
2953 N 4750th Rd
Sandwich, IL 60548

Norman Otto
6190 Millington Rd
Sandwich, IL 60548

Land Owner
Swenson, Claire & Kristie S
13620 Lisbon Rd
Newark, IL 60541

Sent 6.15.23

LaSalle County Health Department
717 E Etna Rd
Ottawa, IL 61350

Township
John Middleton
4404 E. 2552nd Rd
Leland, IL 60531
815-786-8919

LS Bill Mitchell 2
03-02-100-003
03-02-100-004

Sent 8/29/2023

RC Farm Limited Partnership
2374 N 45TH RD LELAND IL 60531

Bierma Agricultural & Investment
PO BOX 711689 SANTEE CA 92072-1689

Grover Family Farm LLC
3636 EMILY WAY CARMEL IN 46033

BIERMA AGRICULTURAL & INVESTME
PO BOX 711689
SANTEE CA 92072-1689

MITCHELL, WILLIAM J / CASANDRA P TTEES
4762 E 16TH RD
EARLVILLE IL 60518

LaSalle County Health Department
717 E Etna Rd, Ottawa, IL 61350

ROY PLOTE
2368 LELAND RD
LELAND, IL 60531

Randy Baker
4766 E 1950TH RD LELAND IL 60531

Jeffery Campbell Road Commissioner
1239 42nd RD Earlville IL 60518

DALE & JANE HENRICKSEN
464 BURR OAK DR
OSWEGO, IL 60543

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Bill Mitchell

3.) Address of User: 4762 E 16th Road

4.) Phone Number of User: 815-739-1317

5.) Location Where Lime is to be Used: LaSalle County, Earl Township LS Bill Mitchell 2

6.) Size of Area Where Lime is to be Used: 80 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than ¼ inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 200 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

William Mitchell 5-10-23
I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/15/22

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 940 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

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   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swenson 8/15/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

November 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for October 2023. This report includes all land application work done by Stewart Spreading for October 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: October 2023

Billie M Marks

	11/15/23	815-695-5667
Name	Date	Telephone

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/21/23		Preparation Date: 07/21/23			
Analyzed By: SLO		Prepped By: SLO			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/24/23		Preparation Date: 07/20/23			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

LRM0245

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Oct-23**

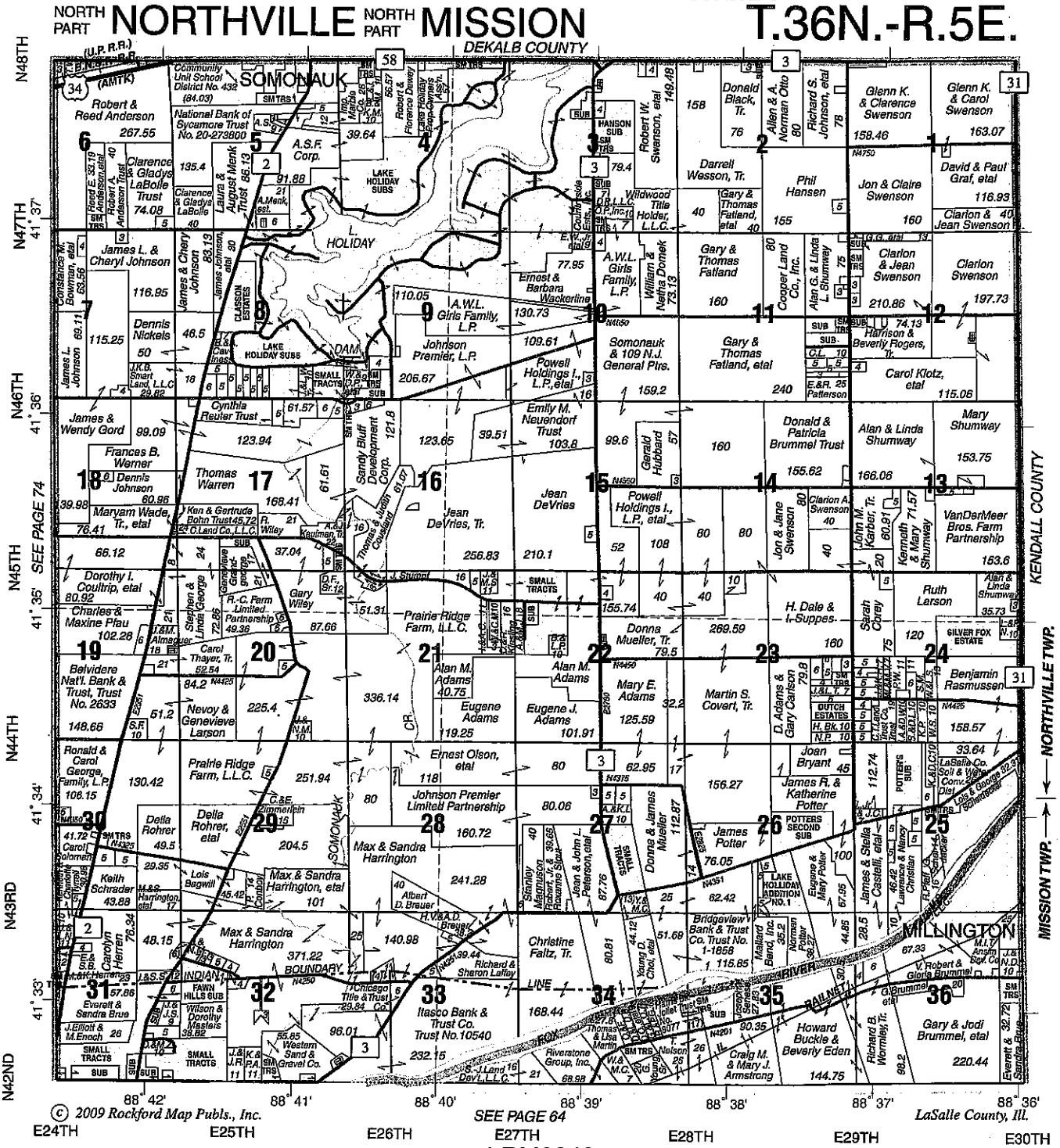
Biosolids Field Record					
LS Swenson 8					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/25/2023	10/31/2023	City of Aurora - Lime	592.96	32.24	191.17
9/26/2023	10/31/2023	City of Aurora - Lime	621.28	33.46	207.88
Total			1214.24		399.05

Biosolids Field Record					
KE Lincolnway 1					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/2/2023	10/31/2023	City of Aurora - Lime	134.36	32.95	44.27
Total			134.36		44.27

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1



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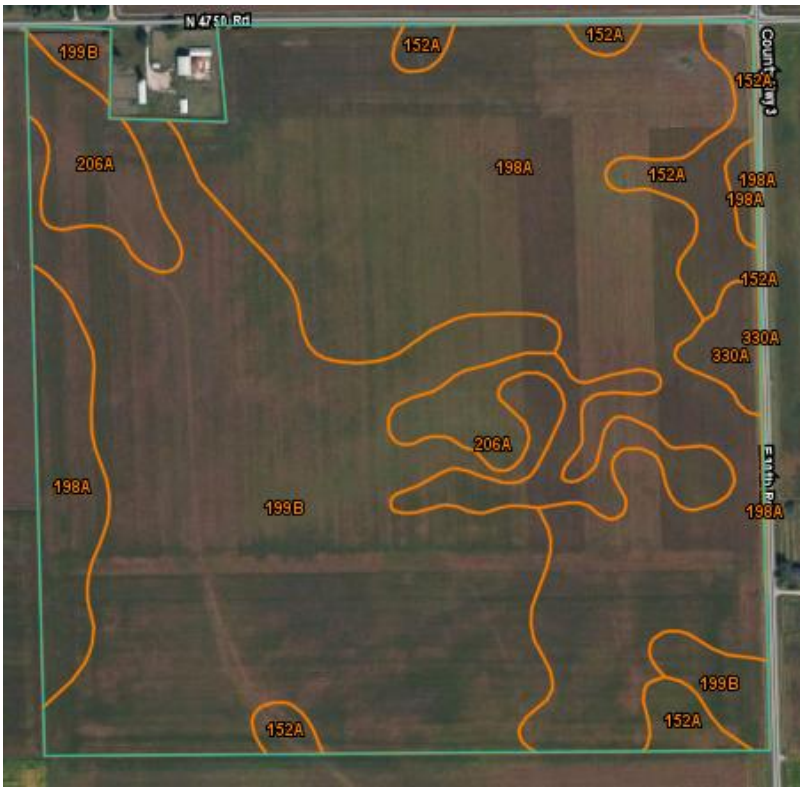
LaSalle County, Ill.

LRM0249

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime
2 Glendale Heights
3 DuPage
4 Marseilles
5 Sandwich
6 Hinckley

Metal Loadings in Pounds per Acr

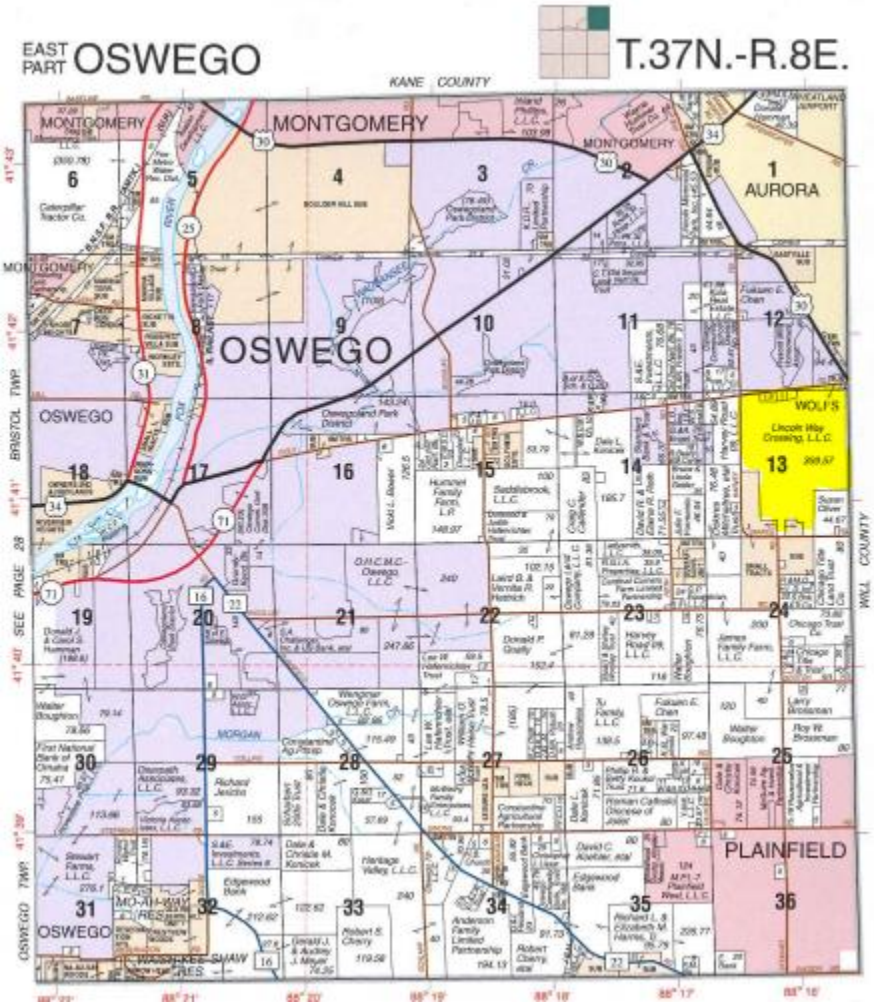
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
2	**Aug-23**	0	0.07	0.09	0.01	0	0.16	0	0	0	0			
3	**Aug-23**	0.01	1.49	0.92	0.05	0.06	2.09	0.01	0	0.01	0.03			
2	**Sep-23**	0	0.09	0.12	0	0	0.21	0	0	0	0			
2	**Oct-23**	0	0.11	0.13	0.01	0	0.23	0	0	0	0			
2	**Nov-23**	0	0.07	0.04	0.01	0.02	0.11	0	0	0	0			
4	**Nov-23**	0.02	0.34	4.79	0.06	0.04	0.36	0.04	0	0.06	0.02	0.040		
5	**Nov-23**	0	0.35	0.34	0.12	0.08	0.54	0.01	0	0	0.04	0.010		
6	**Nov-23**	0	0.24	0.02	0.01	0	0.12	0	0	0	0	0.020		
1	**Oct-23**	0.006	0.038	0.57	0.02	0.006	0.067	0	0	0	0	0.011	8.5 pci/g	
	TOTAL	0.07	2.96	9.27	0.40	0.24	4.29	0.06	0.00	0.07	0.09	0.110	pci/g	
	%of LIMIT	0.7	1.2	1	0.4	0	0.9	0.1	0	0.9	0.6			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.731	pci/g
4	% of Total Cumulative Limit	91.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



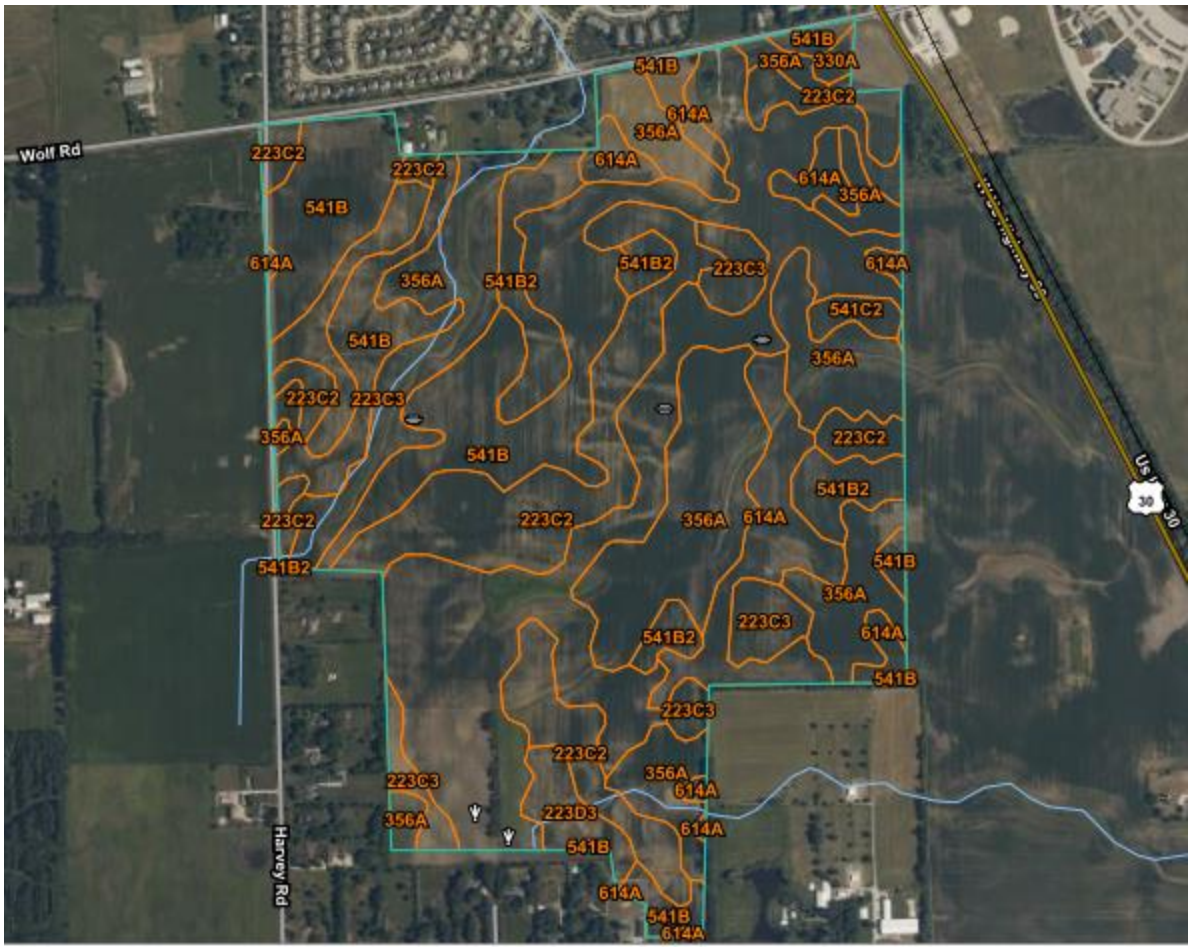
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

METAL LOADING RECORD

SITE NUMBER: KE Lincolnway 1
ACREAGE: 282.35
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 13

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
	TOTAL	0.110	16.980	30.850	1.490	2.720	27.600	0.270	0.000	0.340	0.510	0.056	pci/g				
	%of LIMIT	1.1	6.8	3.4	1.5	0.3	5.5	0.3	0	4.3	3.2						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.056	pci/g
4	% of Total Cumulative Limit	52.80	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0256

Otto Farms
506 E Pleasant Ave
Sandwich, IL 60548

Dan Terlap
6911 Meadow Dr
Crystal Lake, IL 60012

LS SWENSON 8

Glen Swenson
2953 N 4750th Rd
Sandwich, IL 60548

Norman Otto
6190 Millington Rd
Sandwich, IL 60548

Land Owner
Swenson, Claire & Kristie S
13620 Lisbon Rd
Newark, IL 60541

Sent 6.15.23

LaSalle County Health Department
717 E Etna Rd
Ottawa, IL 61350

Township
John Middleton
4404 E. 2552nd Rd
Leland, IL 60531
815-786-8919

KE Lincolnway 1

6/15/2022
3/15/2023
9/15/2023

LINCOLNWAY CROSSING LLC
1N220 INDIAN KNOLL RD
WEST CHICAGO IL 60185

Lincoln Prairie Aurora LLC
6275 STATE RTE 71
OSWEGO IL 60543

SCHWEGLER EDWARD F
11152 S HEGGS RD
PLAINFIELD IL 60585

GARDINER CHRISTOPHER J
45 HEGGS RD
OSWEGO IL 60543

NGH Farms LLC
13351b Faxon RD
Plano IL 60545

John Greene
34 RANCE RD
OSWEGO IL 60543

% PROPERTY SPECIALISTS INC
5999 S NEW WILKIE RD #108
ROLLING MEADOWS, IL, 60008

VINNIE J & JANNES E EMRICH
809 WOLF RD
OSWEGO, IL, 60543

HARVEY ROAD 09 LLC
13 SHELBURNE DR.
OAK BROOK, IL, 60523

DOLORES Y TRUST & OLD SECOND NATIONAL BANK MITCHELTREE
37 S RIVER ST
AURORA, IL, 60507

JAMES & DORA A MANZO
2700 HARVEY RD
OSWEGO, IL, 60543

% PROPERTY TAX DEPARTMENT
PO BOX 2168
HOUSTON, TX, 772522168

NICOLAS & SANDRA BARRIOS
2724 HARVEY RD
OSWEGO, IL, 60543

GRANADOS, ALFREDO DURAN, MARIO & SARA
2750 HARVEY RD
OSWEGO, IL, 60543

MARTIN J KRUG
2515 SADDLEBROOK DR
NAPERVILLE, IL, 60564

CHAS E & NANCY J HANNA
2826 HARVEY RD
OSWEGO, IL, 60543

ROSENDO & ANA HURTADO
2866 HARVEY RD
OSWEGO, IL, 60543

MARK J & SHARON A BERGMAN
573 RANCE RD
OSWEGO, IL, 60543

DAVID G & INGRID DICKINSON
551 RANCE RD
OSWEGO, IL, 60543

HARRY M & ANITA B MARSH TR
475B RANCE RD
OSWEGO, IL, 60543

GENO & CARY MURTAUGH
435 RANCE RD
OSWEGO, IL, 60543

THOS & SANDRA ROHRBACHER
335 RANCE RD
OSWEGO, IL, 60543

WALTER N MCNALLY
1601 W ADAMY CT
ADDISON, IL, 60101

PEREZ CYNTIA GARCIA HULVA GREG
12 PIONEER CT
OSWEGO, IL, 60543

MARK G & LAURA LYNN MIDDENDORF
101 WOLF RD
OSWEGO, IL, 60543

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/15/22

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 940 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swenson 8/15/22

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 5800 wet tons

Years Applied 2021 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stant 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0262

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

December 15, 2023

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for November 2023. This report includes all land application work done by Stewart Spreading for November 2023. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: November 2023

Billie M Marks

	12/15/23	815-695-5667
Name	Date	Telephone

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/21/23		Preparation Date: 07/21/23			
Analyzed By: SLO		Prepped By: SLO			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/24/23		Preparation Date: 07/20/23			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

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Analytical Report

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Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
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Date Collected: 07/17/23
Time Collected: 9:10
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Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

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Analytical Report

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Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Nov-23**

Biosolids Field Record

KE Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/29/2023	11/3/2023	City of Aurora - Lime	1004.58	33.46	336.13
Total			1004.58		336.13

Biosolids Field Record

KE Cryder 7-1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/2/2023	11/6/2023	City of Aurora - Lime	53.27	32.95	17.55
10/2/2023	11/6/2023	City of Aurora - Lime	750.50	34.56	259.37
10/3/2023	11/6/2023	City of Aurora - Lime	699.77	34.35	240.37
Total			1503.54		517.30

Biosolids Field Record

KE Cryder 7-2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/3/2023	11/6/2023	City of Aurora - Lime	191.53	34.35	65.79
Total			191.53		65.79

Biosolids Field Record

KA Kellogg 23

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/3/2023	11/3/2023	City of Aurora - Lime	186.52	34.35	64.07
10/4/2023	11/3/2023	City of Aurora - Lime	236.44	43.37	102.54
Total			422.96		166.61

Biosolids Field Record

KA Pitstick 155

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/4/2023	11/3/2023	City of Aurora - Lime	576.15	43.37	249.88
Total			576.15		249.88

Biosolids Field Record

KE Nichols 160

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/4/2023	11/2/2023	City of Aurora - Lime	405.20	43.37	175.74
10/9/2023	11/2/2023	City of Aurora - Lime	740.01	34.31	253.90
10/10/2023	11/2/2023	City of Aurora - Lime	452.35	37.64	170.26
Total			1597.56		599.90

Biosolids Field Record

LS Swenson 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/9/2023	11/1/2023	City of Aurora - Lime	604.92	34.31	207.55
10/10/2023	11/1/2023	City of Aurora - Lime	836.60	37.64	314.90
Total			1441.52		522.44

Biosolids Field Record

KE Friestad 25

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/10/2023	11/14/2023	City of Aurora - Lime	574.77	37.64	216.34
10/11/2023	11/14/2023	City of Aurora - Lime	222.73	39.09	87.07
Total			797.50		303.41

Biosolids Field Record

KA Lenkaitas 20

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/11/2023	11/4/2023	City of Aurora - Lime	217.56	39.09	85.04
Total			217.56		85.04

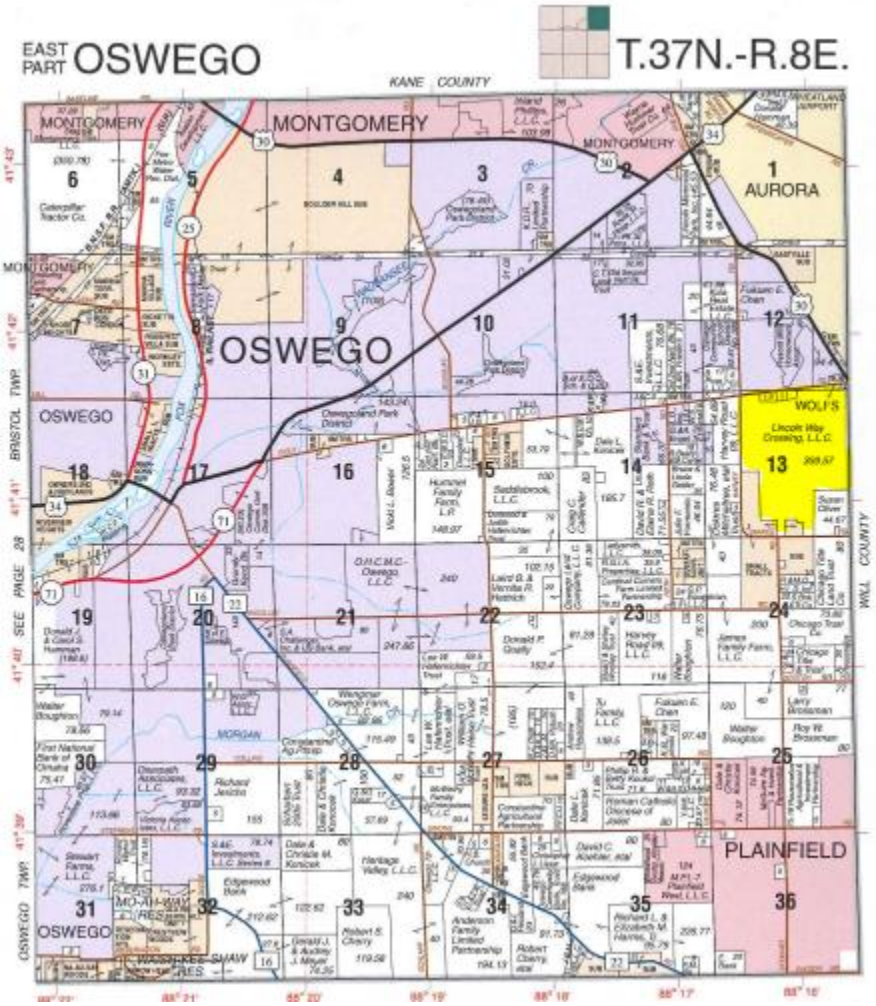
Biosolids Field Record

KE Cryder 60

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/11/2023	11/6/2023	City of Aurora - Lime	421.55	39.09	164.78
Total			421.55		164.78

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



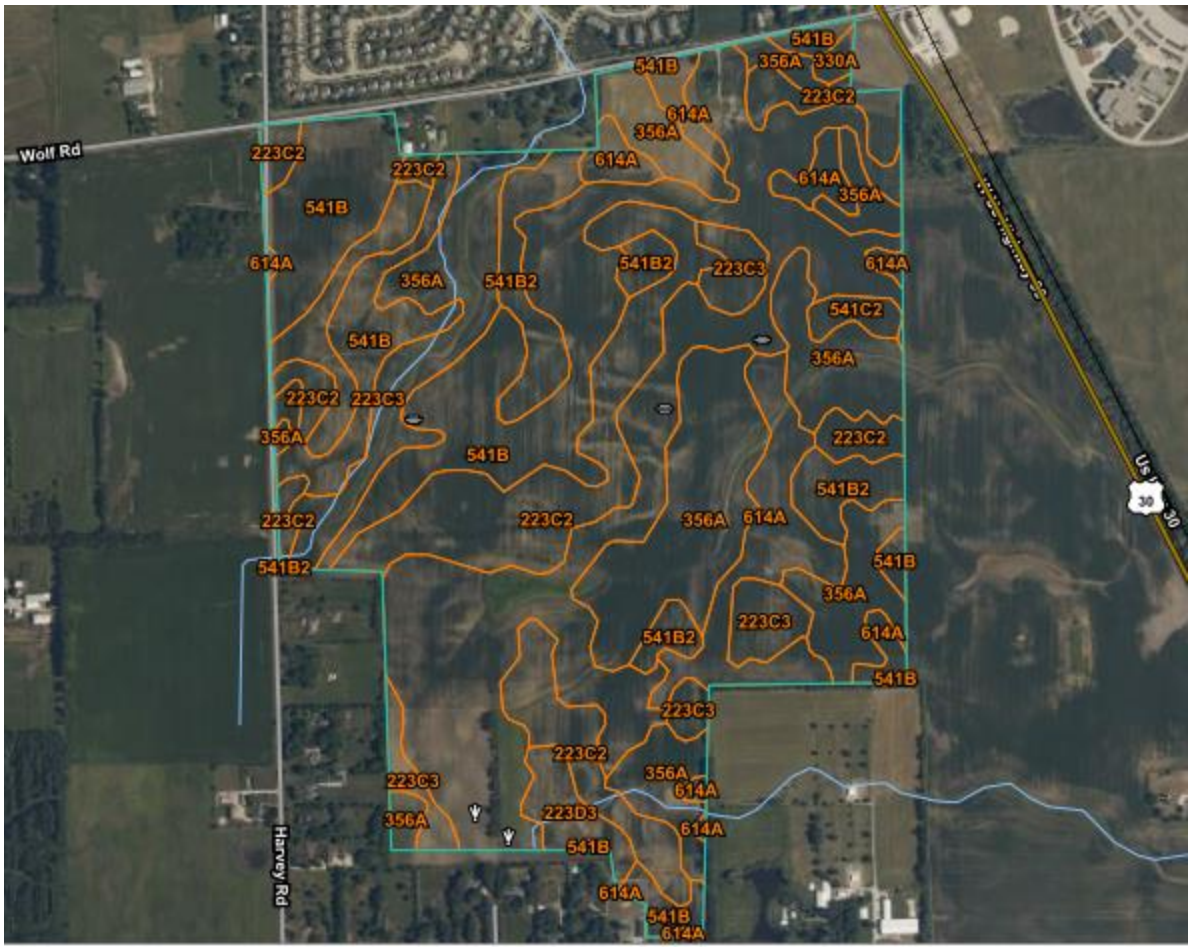
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

METAL LOADING RECORD

SITE NUMBER: KE Lincolnway 1
ACREAGE: 282.35
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 13

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
7	Nov-23	0.020	2.490	2.750	0.240	0.620	5.260	0.020	0.000	0.060	0.100					3520.94	838.73
3	Nov-23	0.003	0.018	0.262	0.009	0.003	0.031	0.000	0.000	0.000	0.000	0.005				1004.58	336.13
	TOTAL	0.130	19.480	33.860	1.740	3.340	32.890	0.290	0.000	0.400	0.610	0.061	pci/g				
	%of LIMIT	1.3	7.8	3.8	1.7	0.3	6.6	0.3	0	5	3.8						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.061	pci/g
4	% of Total Cumulative Limit	53.05	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Cryder

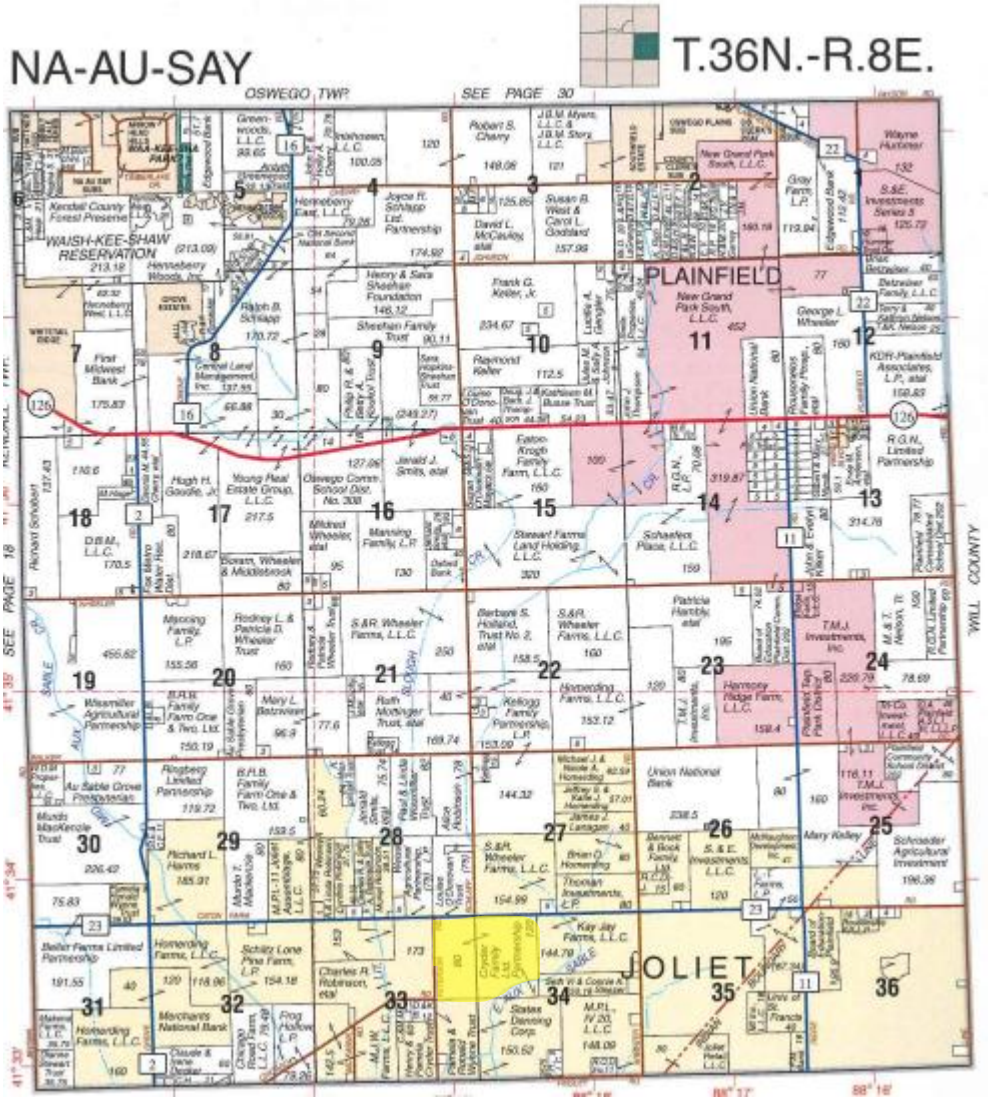
KE Cryder 7-1

157 acres

Kendall County

Na-Au-Say Township

Section 33,34



Cryder Cryder 7-1 Home

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	29.3%	0.60 to 2.00 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	22.0	36.3%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Cryder 7-1
ACREAGE: 157

COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 33 and 34

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	November-23	0.008	0.049	0.724	0.025	0.008	0.085	0	0	0	0	0.014	8.5 pci/g
	TOTAL	0.01	0.05	0.72	0.03	0.01	0.09	0	0	0	0	0.014	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

1	Background Radium	1.530	pci/g
2	Site Limit	2.530	pci/g
3	Cumulative Total to Date	1.544	pci/g
4	% of Total Cumulative Limit	61.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Cryder

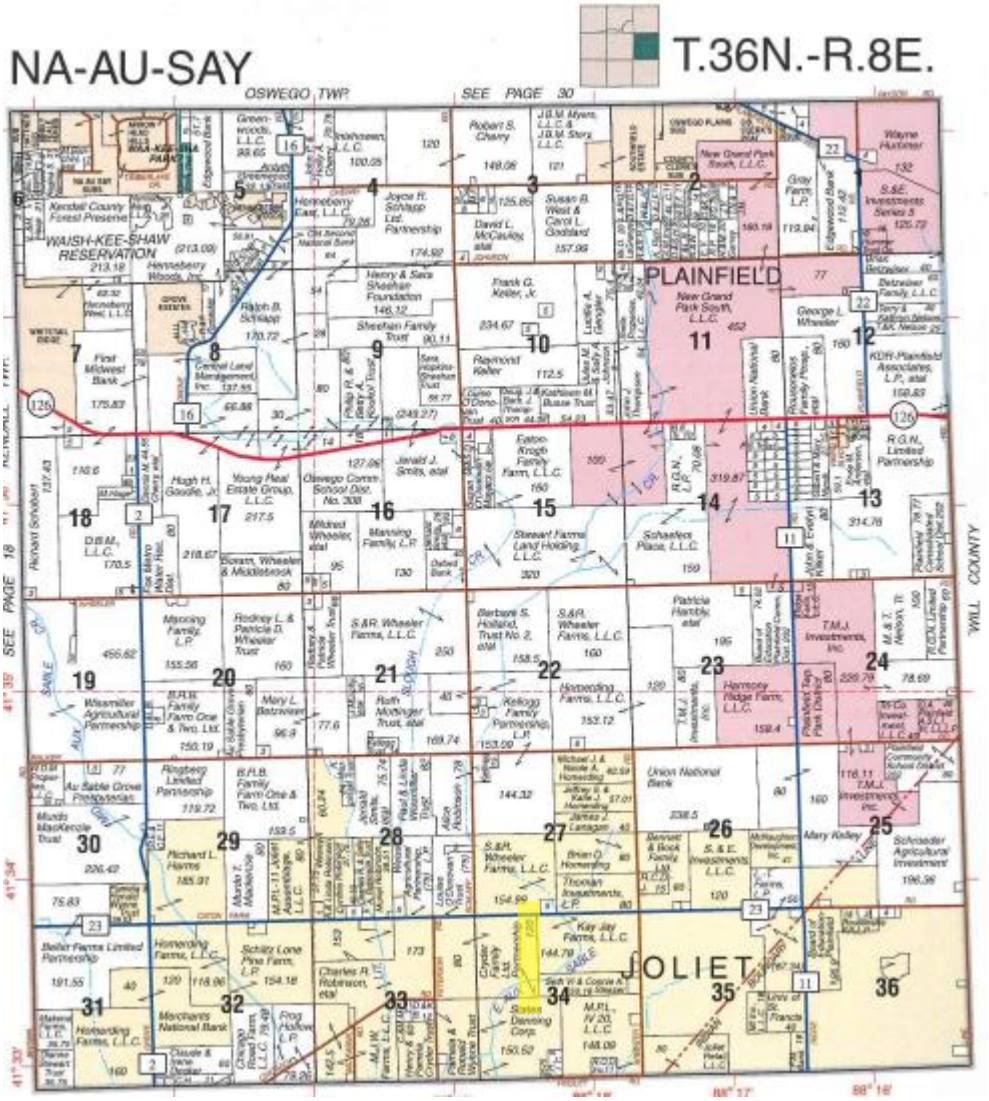
KE Cryder 7-2

20 acres

Kendall County

Na-Au-Say Township

Section 34



Cryder Cryder 7-2 Home

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Cryder 7-2
ACREAGE: 20
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 34

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**November-23**	0.008	0.049	0.724	0.025	0.008	0.085	0	0	0	0	0.014	8.5 pci/g
	TOTAL	0.01	0.05	0.72	0.03	0.01	0.09	0	0	0	0	0.014	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

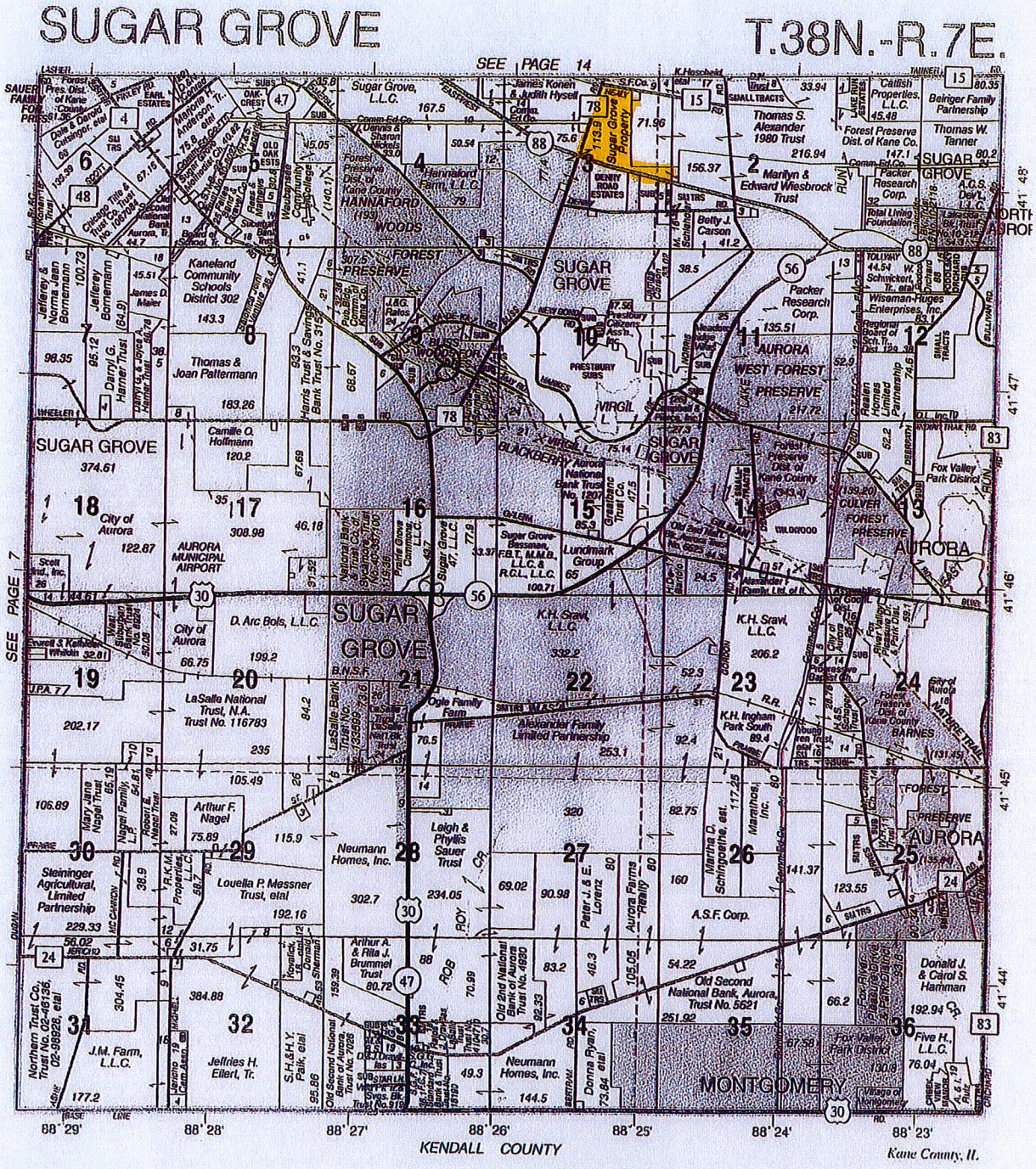
1	Background Radium	1.530	pci/g
2	Site Limit	2.530	pci/g
3	Cumulative Total to Date	1.544	pci/g
4	% of Total Cumulative Limit	61.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Plat Map

Matt Kellogg
9724 Schlapp Road
Yorkville, IL 60560

Field 23
109 Acres
Kane County
Sugar Grove Township
Section 3


SUGAR GROVE
T.38N.-R.7E.
SEE PAGE 14
SEE PAGE 7
KENDALL COUNTY
Kane County, IL
88° 29'
88° 28'
88° 27'
88° 26'
88° 25'
88° 24'
88° 23'
41° 47'
41° 46'
41° 45'
41° 44'
SUGAR GROVE
AURORA
MONTGOMERY
AURORA MUNICIPAL AIRPORT
Sugar Grove Property
Kaneland Community Schools District 302
Thomas & Joan Paltermann
Camille Q. Hoffmann
City of Aurora
D. Arc Bois, L.L.C.
LaSalle National Trust, N.A. Trust No. 116783
Arthur F. Nagel
Steininger Agricultural, Limited Partnership
Louella P. Messner Trust, etal
Neumann Homes, Inc.
Leigh & Phyllis Sauer Trust
Ogle Family Farm
Alexander Family Limited Partnership
Lundmark Group
K.H. Gravl, L.L.C.
K.H. Ingham Park South
Packer Research Corp.
Marilyn & Edward Wiesbrock Trust
Thomas S. Alexander 1980 Trust
Catfish Properties, L.L.C.
Beiriger Family Partnership
Thomas W. Tanner
Forest Preserve Dist. of Kane Co.
Hannaford Farm, L.L.C.
Betty J. Carson
Wiseman-Hughes Enterprises, Inc.
Fox Valley Park District
Old Second National Bank, Aurora, Trust No. 5621
A.S.F. Corp.
Donald J. & Carol S. Hamman
Five H, L.L.C.
Jeffries H. Eiteri, Tr.
J.M. Farm, L.L.C.
Northern Trust Co. Trust No. 02-46136, 02-98928, etal
Donna Ryan, etal
Aurora Farms Realty
Martha D. Schingoethe, est.
Marathon, Inc.
Peter J. & E. Lorenz
Arthur A. & Rita J. Brummel Trust
Old 2nd National Bank of Aurora Trust No. 4980
Old Second National Bank of Aurora, Trust No. 7028
Sugar Grove, L.L.C.
James Konen & Judith Hysell
Dennis & Sharon Nickels
Forest Preserve Dist. of Kane County
Waubonsee Community College
Harris Trust & Savings Bank Trust No. 31547
Darryl G. Harner Trust
Jeffery & Norma Jean Bornemann
Jeffery Bornemann
James D. Maier
Chicago Title & Trust Co. Trust No. 106705
Suburban Bank & Trust Co. Trust No. 2-2-1
Board of School Tr.
Anderson Tr. etal
Meadow Ridge Estates
Old Oak Estates
Oak Crest
Denny Road Estates
Prestbury Subs
Virgil L.
Blackberry Creek
Wildwood
Gullver Forest Preserve
Barnes
Nature Trail
Rob Roy
Virgil
Wheeler
Jericho
Jericho Tr.
Cam Ann Dr.
Sherman
Donald
Sauer Family Foundation
Earl Estates
Scott Trust, Inc.
Sweet & Kelleher
Whalen
Aurora National Bank Trust No. 120
Aurora National Bank Trust No. 1201
Sugar Grove Bassman, F.B.T., M.M.B., L.L.C. & R.C.L., L.L.C.
Sugar Grove 47, L.L.C.
Prairie Grove Commons, L.L.C.
Old 2nd Nat'l Bank Trust No. 6805
Old 2nd Nat'l Bank Trust No. 6806
Old 2nd Nat'l Bank Trust No. 6807
Old 2nd Nat'l Bank Trust No. 6808
Old 2nd Nat'l Bank Trust No. 6809
Old 2nd Nat'l Bank Trust No.

Matt Kellogg
9724 Schlapp Road
Yorkville, IL 60560

KA Kellogg 23
Kane County
Sugar Grove Township
Section 3

152A	Drummer silty clay loam, 0 to 2 percent slopes	1.5	(0.60 to 2.00 in/hr)
171A	Catlin silt loam, 0 to 2 percent slopes	37.6	(0.20 to 0.60 in/hr)
198A	Elburn silt loam, 0 to 2 percent slopes	64.2	(0.60 to 2.00 in/hr)
512B	Danabrook silt loam, 2 to 5 percent slopes	8.2	(0.20 to 0.60 in/hr)



METAL LOADING RECORD

SITE NUMBER: KA Kellog 23
ACREAGE: 109
COUNTY: Kane
TOWNSHIP: Sugar Grove
SECTION: 3

FARMER: Matt Kellogg
9724 Schlapp Rd
Yorkville, IL 60560

Source of biosolids
1 Geneva
2 Glenbard
3 Wheaton
4 Aurora - Lime
5 Bensensville
6 Huntley East
7 DuPage
8 FRWRD

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Nov-13	0.011	1.210	1.370	0.060	0.050	2.070	0.020	0.003	0.000	0.020	0.021	
2	Nov-13	0.010	5.870	1.430	0.140	0.260	8.250	0.010	0.026	0.040	0.070		
3	Nov-13	0.013	4.460	2.490	0.140	0.250	7.060	0.000	0.000	0.000	0.000		
4	11/13/013	0.003	0.027	0.459	0.013	0.008	0.240					0.008	
5	Apr-14	0.010	14.340	8.280	0.340	0.570	9.320	0	0.004293	0.11	0.13		
2	Apr-14	0	1.87	0.4	0.04	0.06	1.87	0	0.002554	0.02	0.02		
6	Apr-14	0	0.25	0.09	0	0	0.18	0.01	0	0.01	0	0.0026	
4	10/27/2014	0.001	0.006	0.119	0.006	0.001	0.056					0.0020	4.3000
7	Nov-14	0	1.96	1.49	0.06	0.1	2.45	0.01	0	0.02	0.03		
8	Nov-14	0	0.35	0.21	0.02	0.01	0.34	0	0	0	0.01	0.0244	
2	DEC-14	0.01	4.25	1.14	0.09	0.13	4.64	0.0143	0.0079	0.06	0.06	0.0008	
7	Sept 15	0	0.36	0.36	0.01	0.02	0.49	0	0	0	0.01		
3	November 2015	0.01	4.34	2.96	0.11	0.21	6.98	0.03	0.01	0.03	0.09	0.0100	
2	November 2015	0	0.57	0.14	0.01	0.02	0.64	0.0015	0.0023	0.01	0.01		
7	November 2015	0	0.92	0.91	0.03	0.05	1.25	0	0	0.01	0.02		
7	July 2019	0	0.24	0.19	0.99	0.28	0	0	0	0	0		
5	July 2019	0	1.1	2.11	0.08	0.13	1.27	0.01	0	0.02	0.03		
8	September 2019	0	0.64	0.56	0.04	0.03	0.76	0.01	0	0.01	0.02	0.0015	
4	November 2023	0.004	0.023	0.337	0.012	0.004	0.039	0	0	0	0	0.0070	8.5 pci/g
	TOTAL	0.070	42.790	25.040	2.190	2.180	47.900	0.120	0.060	0.340	0.520	0.077	pci/g
	%of LIMIT	0.7	17.1	2.8	2.2	0.2	9.6	0.1	0.1	4.3	3.2		

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.077	pci/g
4	% of Total Cumulative Limit	53.85	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pitstick

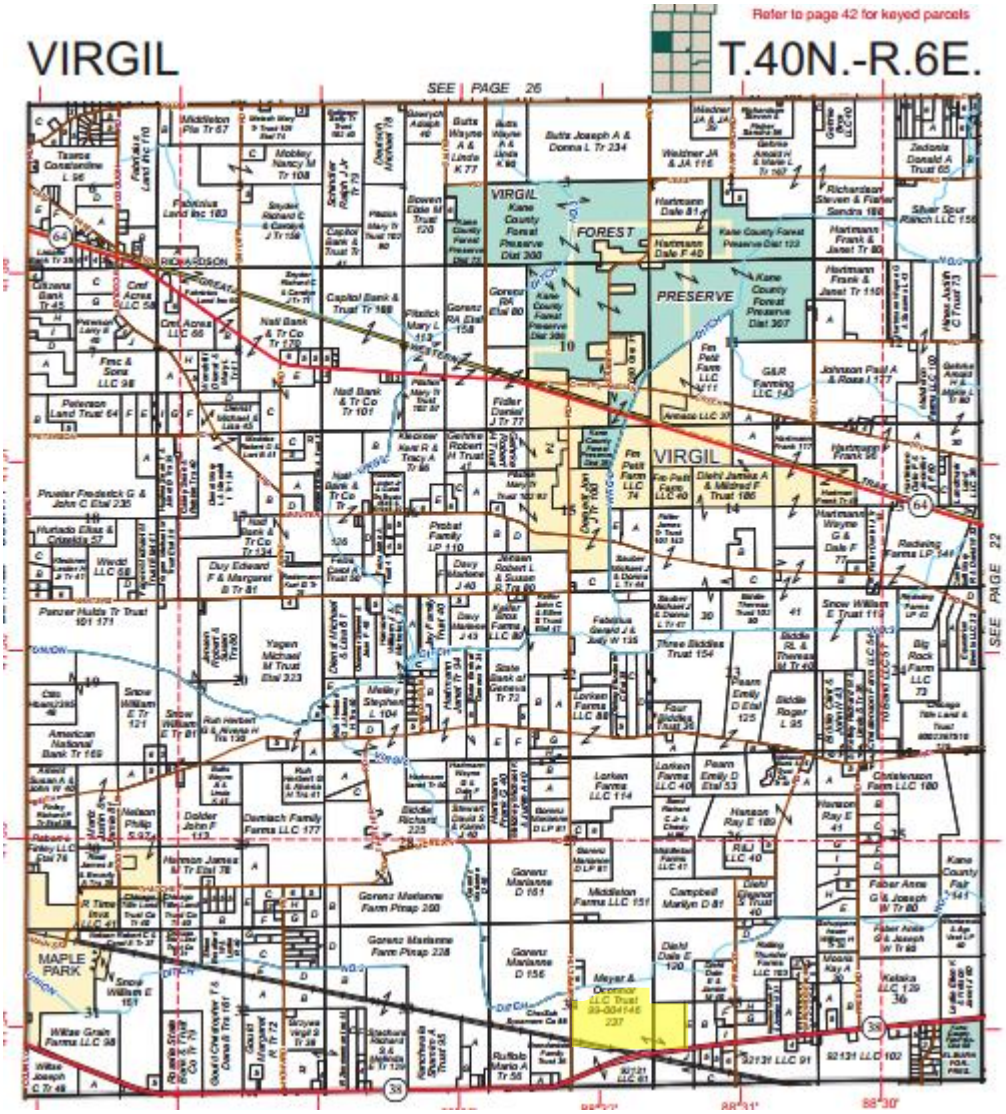
Pitstick 155

152 acres

Kane County

Virgil Township

Sections 34,35



	Pitstick	Pitstick 155			
67A	Harpster silty clay loam, 0 to 2 percent slopes	34.1	22.8%		0.60 to 2.00 in/hr
134C2	Camden silt loam, 5 to 10 percent slopes, eroded		3.6	2.4%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	69.7	46.6%		0.60 to 2.00 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	5.7	3.8%		0.20 to 0.57 in/hr
193C2	Mayville silt loam, 5 to 10 percent slopes, eroded		8.1	5.4%	0.20 to 0.57 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes	0.1	0.1%		0.60 to 2.00 in/hr
527B	Kidami silt loam, 2 to 4 percent slopes	2.1	1.4%		0.20 to 0.60 in/hr
527C2	Kidami loam, 4 to 6 percent slopes, eroded	5.7	3.8%		0.20 to 0.60 in/hr
668B	Somonauk silt loam, 2 to 5 percent slopes	20.5	13.7%		0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KA Pitstick 155
ACREAGE: 152
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 34 and 35

FARMER: Dale Pitstick
ADDRESS: 2N118 Pouley Rd
Elburn, IL 60119
630-816-0223

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.004	0.024	0.361	0.012	0.004	0.042	0	0	0	0	0.0070	8.5 pci/g			576.15	249.88
	TOTAL	0	0.02	0.36	0.01	0	0.04	0	0	0	0	0.007	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative total to Date	1.937	pci/g
4	% of Total Cumulative Limit	66.11	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Nichols

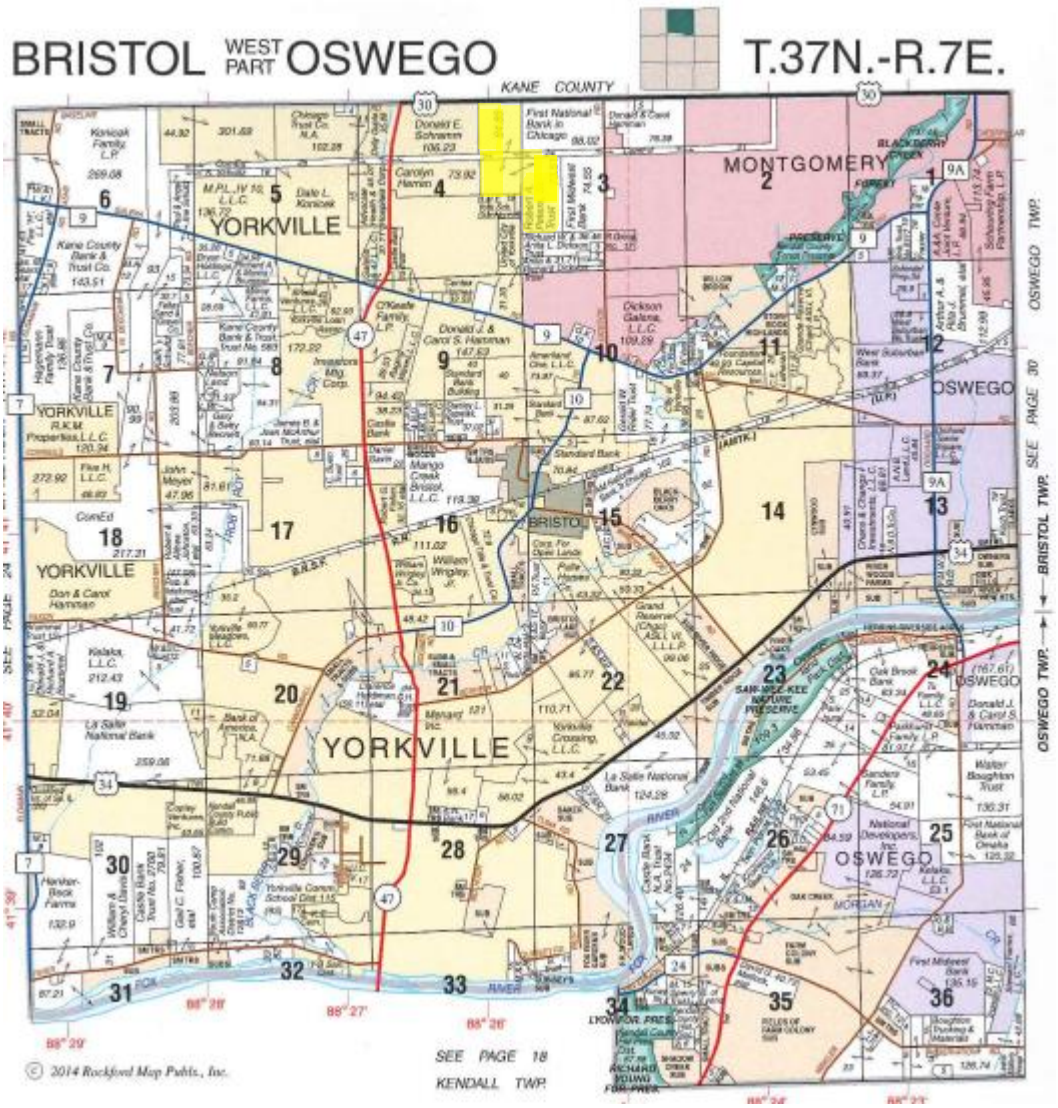
Nichols 160

160 acres

Kendall County

Bristol Township

Section 3,4



Nichols Nichols 160

59A	Lisbon silt loam, 0 to 2 percent slopes	15.1	9.5%		0.20 to 0.60 in/hr
67A	Harpster silty clay loam, 0 to 2 percent slopes		4.4	2.8%	.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.5	3.5%		0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes		86.1	54.2%	0.60 to 2.00 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	34.7	21.8%		0.06 to 0.20 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		13.1	8.2%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Nichols 160
ACREAGE: 160
COUNTY: Kendall
TOWNSHIP: Bristol
SECTION: 3 and 4

FARMER: Denny Nichols
ADDRESS: 45 W 045 Scott Road
Sugar Grove, IL 60554
630-675-1258

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.0160	8.5 pci/g			1597.56	599.90
	TOTAL	0.01	0.06	0.83	0.03	0.01	0.1	0	0	0	0	0.016	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

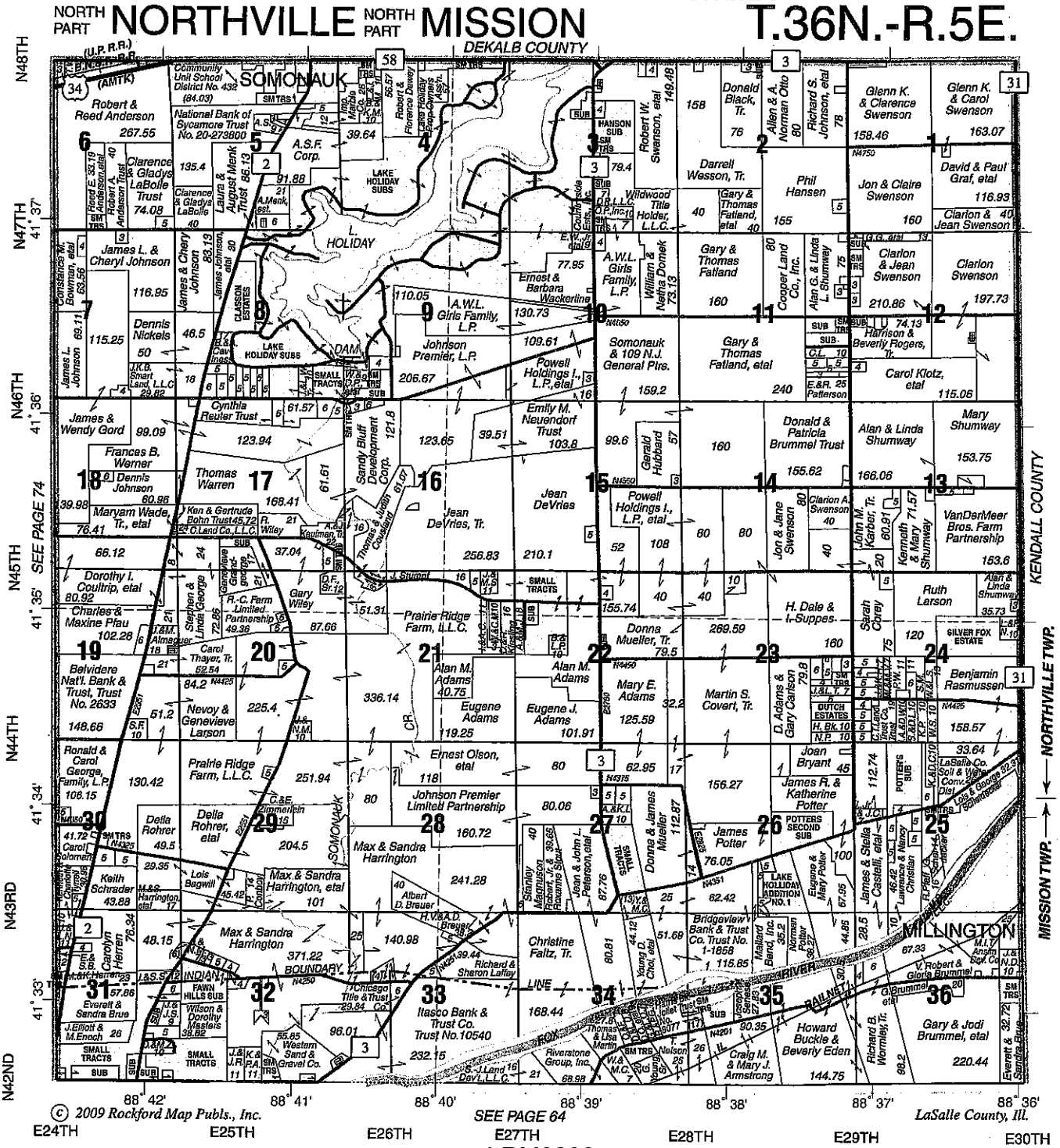
1	Background Radium	2.010	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.026	pci/g
4	% of Total Cumulative Limit	67.53	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1

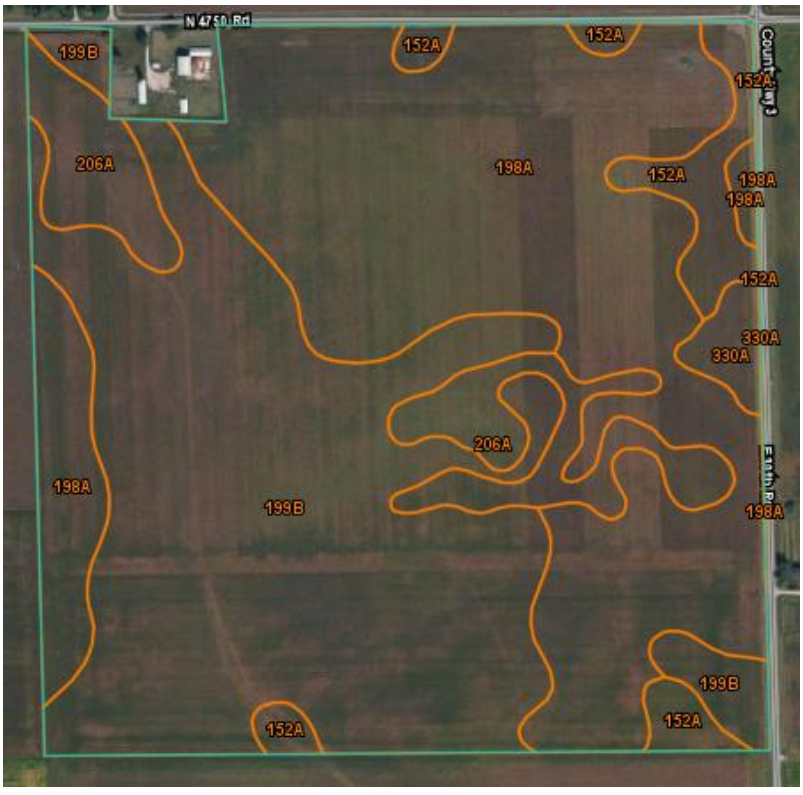


LRM0290

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime
2 Glendale Heights
3 DuPage
4 Marseilles
5 Sandwich
6 Hinckley
7 Village of Plainfield

Metal Loadings in Pounds per Acr

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
2	**Aug-23**	0	0.07	0.09	0.01	0	0.16	0	0	0	0			
3	**Aug-23**	0.01	1.49	0.92	0.05	0.06	2.09	0.01	0	0.01	0.03			
2	**Sep-23**	0	0.09	0.12	0	0	0.21	0	0	0	0			
2	**Oct-23**	0	0.11	0.13	0.01	0	0.23	0	0	0	0			
2	**Nov-23**	0	0.07	0.04	0.01	0.02	0.11	0	0	0	0			
4	**Nov-23**	0.02	0.34	4.79	0.06	0.04	0.36	0.04	0	0.06	0.02	0.040		
5	**Nov-23**	0	0.35	0.34	0.12	0.08	0.54	0.01	0	0	0.04	0.010		
6	**Nov-23**	0	0.24	0.02	0.01	0	0.12	0	0	0	0	0.020		
1	**Oct-23**	0.006	0.038	0.57	0.02	0.006	0.067	0	0	0	0	0.011	8.5 pci/g	
7	**Oct.Nov-23**	0.004	0.34	0.21	0.02	0.01	0.55	0.01	0	0.01	0.01			
1	**Nov-23**	0.008	0.05	0.746	0.026	0.008	0.087	0	0	0	0	0.015	8.5 pci/g	
	TOTAL	0.08	3.35	10.23	0.44	0.25	4.93	0.07	0.00	0.08	0.10	0.125	pci/g	
	%of LIMIT	0.8	1.3	1.1	0.4	0	1	0.1	0	1	0.6			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.746	pci/g
4	% of Total Cumulative Limit	91.53	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Friested

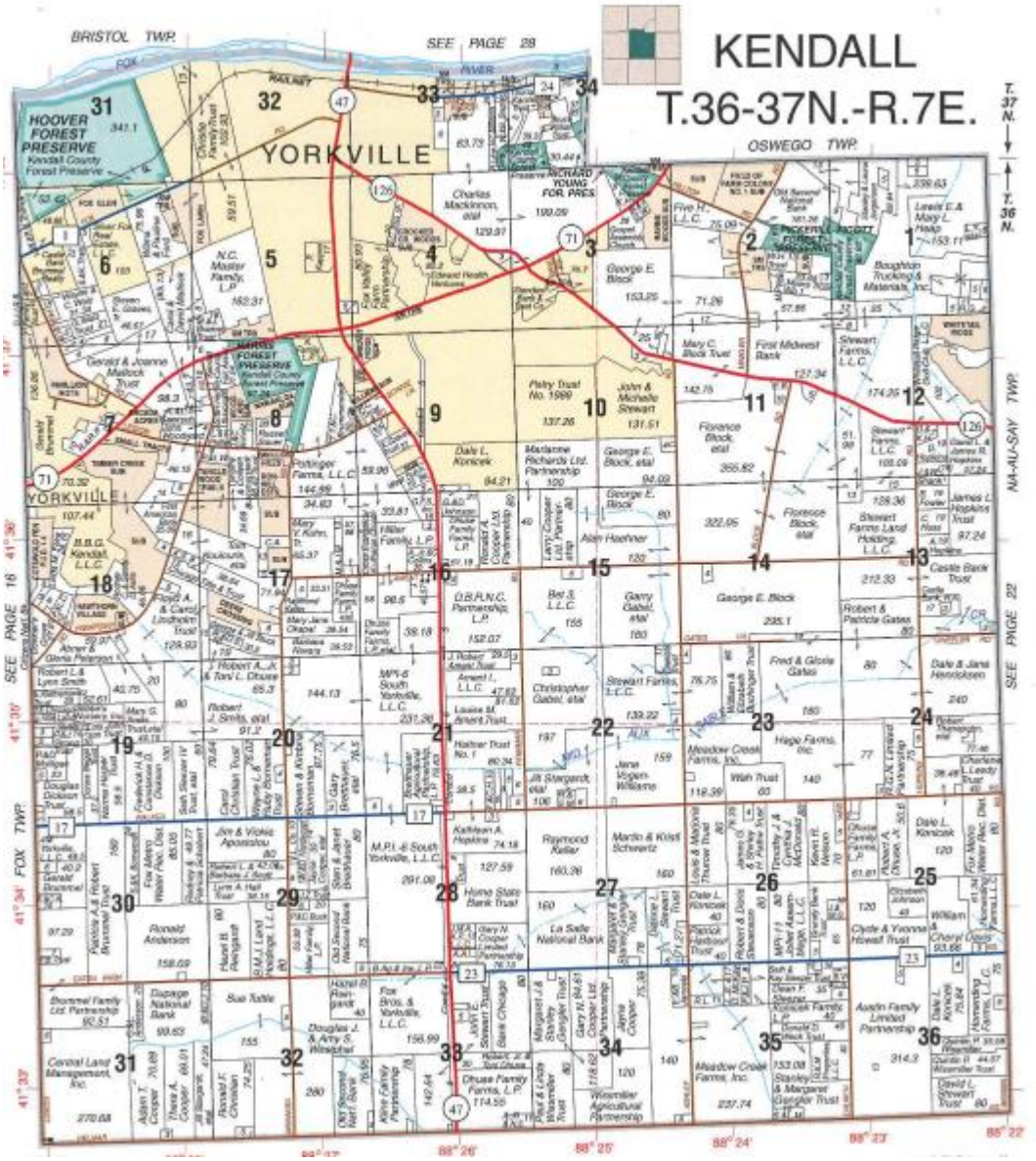
KE Friested 25

74.8 acres

Kendall County

Kendall Township

Section 26



Friested

KE Friested 25

74.8 acres

Kendall County

Kendall Township

Section 26

148B	Proctor silt loam, 2 to 5 percent slopes	1.8	2.3%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.6	6.9%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.0	20.8%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	34.8	42.6%	0.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	21.3	26.0%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.2	1.5%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 25
ACREAGE: 74.8
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 26

FARMER: Kirk Friested
ADDRESS: 10065 Chicago Road
Newark, IL 60541
815-736-6165

Source of biosolids
1 Naperville-Stockpile 2
2 Lasma lagoon 28
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0	1.17	0.59	0.04	0.02	1.73	0.01	0	0.01	0.02				350		63.59
2	Nov-23	0.050	6.390	7.070	0.620	1.600	13.510	0.050	0.010	0.150	0.260					2317.43	583.99
3	Nov-23	0.010	0.060	0.893	0.031	0.010	0.105	0.000	0.000	0.000	0.000	0.018	8.5 pci/g			797.5	303.41
TOTAL		0.06	7.62	8.55	0.69	1.63	15.35	0.06	0.01	0.16	0.28	0.018	pci/g				
%of LIMIT		0.6	3	1	0.7	0.2	3.1	0.1	0	2	1.7						

1	Background Radium	1.870	pci/g
2	Site Limit	2.870	pci/g
3	Cumulative total to Date	1.888	pci/g
4	% of Total Cumulative Limit	65.78	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Andy Lenkaitis

6N707 Cornron Rd

Saint Charles, IL 60175

630-200-8617

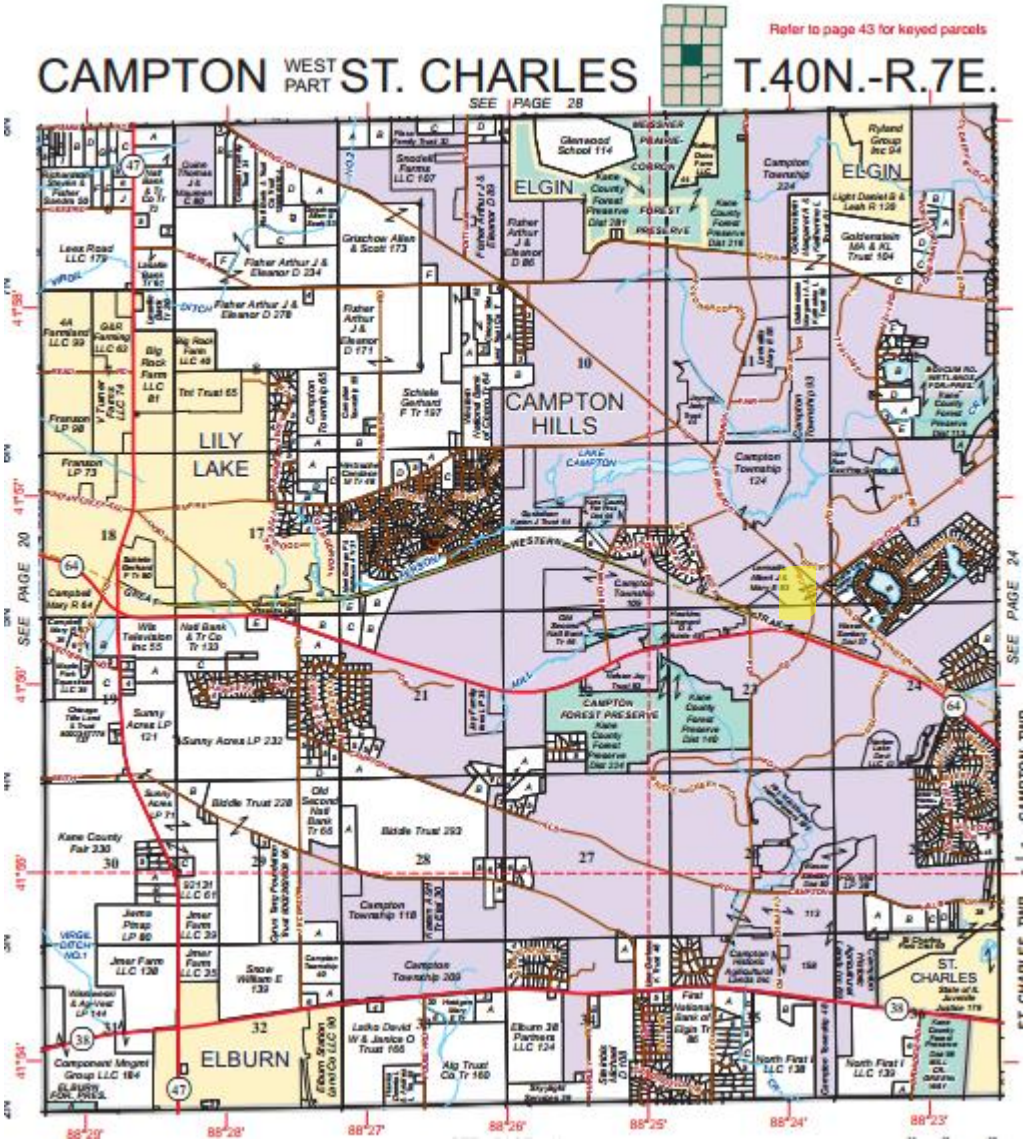
KA Lenkaitis 20

20 acres

Kane County

Campton Township

Section 14,23



Lenkatits Lenkatits 20

152A	Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0%	0.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	2.5	13.0%	0.60 to 2.00 in/hr
512B	Danabrook silt loam, 2 to 5 percent slopes	11.2	58.2%	0.20 to 0.60 in/hr
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	5.4	28.0%	0.20 to 0.60 in/hr
663B	Clare silt loam, 2 to 5 percent slopes	0.1	0.7%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KA Lenkaitas 20
ACREAGE: 20

COUNTY: Kane
TOWNSHIP: Campton
SECTION: 14 and 23

FARMER: Andy Lenkaitis
ADDRESS: 6N707 Cornron Rd
Saint Charles, IL 60175
630-200-8617

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.011	0.063	0.935	0.032	0.011	0.11	0	0	0	0	0.0180	8.5 pci/g			217.56	85.04
	TOTAL	0.01	0.06	0.94	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.000	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.018	pci/g
4	% of Total Cumulative Limit	67.27	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Scott Cryder

17160 Brisbin Road

Minooka, IL 60447

815-405-9744

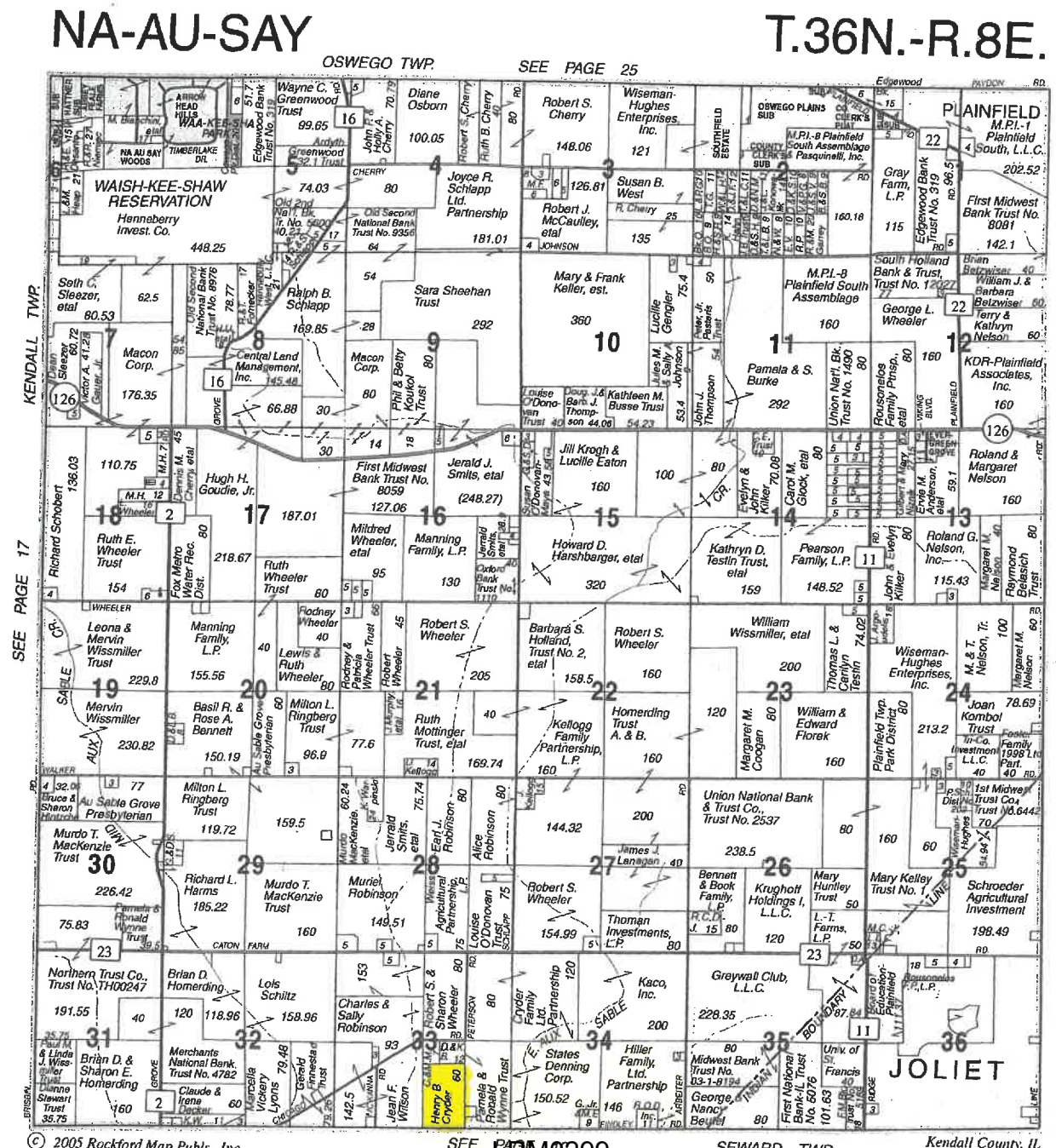
KE Cryder 60

60 Acres

Kendall County

Na-Au-Say Township

Section 33



LRM0299

Cryder Cryder 60

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	29.3%	0.60 to 2.00 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	22.0	36.3%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Cryder 60
ACREAGE: 60

COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 33

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**November-23**	0.007	0.041	0.605	0.021	0.007	0.071	0	0	0	0	0.012	8.5 pci/g
	TOTAL	0.01	0.04	0.61	0.02	0.01	0.07	0	0	0	0	0.012	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

1	Background Radium	2.160	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.172	pci/g
4	% of Total Cumulative Limit	72.40	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0302

KE Lincolnway 1

6/15/2022
3/15/2023
9/15/23

LINCOLNWAY CROSSING LLC
1N220 INDIAN KNOLL RD
WEST CHICAGO IL 60185

Lincoln Prairie Aurora LLC
6275 STATE RTE 71
OSWEGO IL 60543

SCHWEGLER EDWARD F
11152 S HEGGS RD
PLAINFIELD IL 60585

GARDINER CHRISTOPHER J
45 HEGGS RD
OSWEGO IL 60543

NGH Farms LLC
13351b Faxon RD
Plano IL 60545

John Greene
34 RANCE RD
OSWEGO IL 60543

% PROPERTY SPECIALISTS INC
5999 S NEW WILKIE RD #108
ROLLING MEADOWS, IL, 60008

VINNIE J & JANNES E EMRICH
809 WOLF RD
OSWEGO, IL, 60543

HARVEY ROAD 09 LLC
13 SHELBURNE DR.
OAK BROOK, IL, 60523

DOLORES Y TRUST & OLD SECOND NATIONAL BANK MITCHELTREE
37 S RIVER ST
AURORA, IL, 60507

JAMES & DORA A MANZO
2700 HARVEY RD
OSWEGO, IL, 60543

% PROPERTY TAX DEPARTMENT
PO BOX 2168
HOUSTON, TX, 772522168

NICOLAS & SANDRA BARRIOS
2724 HARVEY RD
OSWEGO, IL, 60543

GRANADOS, ALFREDO DURAN, MARIO & SARA
2750 HARVEY RD
OSWEGO, IL, 60543

MARTIN J KRUG
2515 SADDLEBROOK DR
NAPERVILLE, IL, 60564

CHAS E & NANCY J HANNA
2826 HARVEY RD
OSWEGO, IL, 60543

ROSENDO & ANA HURTADO
2866 HARVEY RD
OSWEGO, IL, 60543

MARK J & SHARON A BERGMAN
573 RANCE RD
OSWEGO, IL, 60543

DAVID G & INGRID DICKINSON
551 RANCE RD
OSWEGO, IL, 60543

HARRY M & ANITA B MARSH TR
475B RANCE RD
OSWEGO, IL, 60543

GENO & CARY MURTAUGH
435 RANCE RD
OSWEGO, IL, 60543

THOS & SANDRA ROHRBACHER
335 RANCE RD
OSWEGO, IL, 60543

WALTER N MCNALLY
1601 W ADAMY CT
ADDISON, IL, 60101

PEREZ CYNTIA GARCIA HULVA GREG
12 PIONEER CT
OSWEGO, IL, 60543

MARK G & LAURA LYNN MIDDENDORF
101 WOLF RD
OSWEGO, IL, 60543

KE Cryder 7-1
06-33-200-001
06-34-100-001

KE Cryder 7-2
06-34-100-001

CRYDER FAMILY LTD PARTNERSHIP, % HENRY CRYDER
1090 JONES RD
MINOOKA, IL, 60447

CRYDER FAMILY LTD PARTNERSHIP, % HENRY CRYDER
1090 JONES RD
MINOOKA, IL, 60447

ROBINSON, CHARLES R ET AL
10289 CATON FARM RD
MINOOKA, IL, 60447

WISSMILLER PAUL LIV TR & WISSMILLER LINDA LIV TR &, WISSMILLER QUINTIN P & STACI M
% PAUL WISSMILLER
9511 GROVE RD

ODONOVAN, LOUISE REVOC TRUST
2875 W ROUTE 126
PLAINFIELD, IL, 60544

S & R WHEELER FARMS LLC
2324 W WHEELER RD
PLAINFIELD, IL, 60544

KAY JAY FARMS LLC, % ROBERT JR & TONI DHUSE
9096 IMMANUEL RD
YORKVILLE, IL, 60560

SLEEZER, SETH VI & CONNIE K
7214 CATON FARM RD
YORKVILLE, IL, 60560

STATES DENNING CORP
426 HILL ST
BOONTON, NJ, 07005

STATES DENNING CORP
426 HILL ST
BOONTON, NJ, 07005

WYNNE, RONALD TRUST 052843 & WYNNE PAMELA TRUST 031444
2585 GROVE RD
MINOOKA, IL, 60447-8521

BUNDY, DEAN A & KAROL J
3380 CHICAGO RD
MINOOKA, IL, 60447

KA Kellog 23

9/15/23

Norris Seavey LLC
P.O. Box 831
Aurora IL 60507-831

Kane County Health Dept
1240 N Highland Ave
Aurora, Il 60506

Sugar Grove Township
PO Box 465
Sugar Grove, IL 60554

Com Ed Tax Service
P.O. Box 767
Chicago, IL 60690

Deleted
.Cary Corners LLC
3909 Three Oaks Rd
Cary, IL 60013-1804

Konen-Hysell TR
4S110 Bliss Road
2333 E. Bombay Rd
Midland MI 43642-3354

Old Second Bank TR 333249%
Weisbrook
E 37 S River St.
Aurora IL 60506

KE Pitstick 155
07-34-400-002
07-34-400-005
07-34-200-004

07-35-300-023

10/26/2023

TRUST # 99-004146
JOHN MEYER
90 SHORE DR
OGDEN DUNES, IN, 46368-1007

DIEHL, DALE E & JANICE M
2N590 FRANCIS RD
MAPLE PARK, IL, 60151-8885

COSMOPOLITAN BANK & TRUST TR# 23858
PERVAN MANAGEMENT
2220 WOODVIEW LN
PARK RIDGE, IL, 60068-1042

CHS-SUB SYCAMORE CO
PO BOX 64089
ATTN: PROPERTY TAX
SAINT PAUL, MN, 55164-0089

DIEHL, DALE E
2N590 FRANCIS RD
MAPLE PARK, IL, 60151-8885

ROTH, ANN R, ZIMMERMAN, R L & DURAN, J E
JOSE E DURAN
811 DOGWOOD DR
NORTH AURORA, IL, 60542-3025

GORENZ, MARIANNE D
48W729 THATCHER RD
MAPLE PARK, IL, 60151

92131 LLC
GORDON STADE, MANAGER
5680 N RUTH AVE
MONROE CENTER, IL, 61052-9473

BRANDONISIO FAMILY TRUST
47W614 IL ROUTE 38
MAPLE PARK, IL, 60151-9129

MARLER, ERIC J & LAURA A
2N681 MEREDITH RD
MAPLE PARK, IL, 60151-9389

KE Nichols 160		10/26/2023
02-04-200-001 02-04-200-002 02-03-100-002 02-03-300-001		
PETERS, ROBERT A SR, TRUST 12 HEATON CT SUGAR GROVE, IL, 60554		KELAKA LLC JOHN P DUGAN 181 S LINCOLNWAY NORTH AURORA, IL, 60542-1609
SCHRAMM, EDWARD A & BARBARA N5119 HWY H DEERBROOK, WI, 54424		KELAKA LLC JOHN P DUGAN 161 S LINCOLNWAY NORTH AURORA, IL, 60542-1609
COMMONWEALTH EDISON THREE LINCOLN CENTRE 4TH FL OAK BROOK TERRACE, IL, 60181		
TARDIO, DAVID E & LYNN J 4646 PLYMOUTH AVE YORKVILLE, IL, 60560	FIRST MIDWEST BANK, TRUST: 72-11660 2801 W JEFFERSON ST JOLIET, IL, 60435	
HPA JV BORROWER 2019-1 ATH LLC 120 S RIVERSIDE PLAZA SUITE 2000 CHICAGO, IL, 60606	FIRST NATIONAL BANK IN CHGO, %NORTH STAR TRUST COMPANY % MARY KATTOS 4401 W 95 ST OAK LAWN, IL, 60453	
UNITED CITY OF YORKVILLE 800 GAME FARM RD YORKVILLE, IL, 60560	BLACKBERRY CROSSING WEST HOMEOWNER ASSOC. 50 E COMMERCE DR STE 110 SCHAUMBURG, IL, 60173	
BOARD OF EDUCATION YORKVILLE UNIT SCHOOL DIST 115 602 CENTER PKWY UNIT A YORKVILLE, IL, 60560	FOX VALLEY PARK DISTRICT 101 W ILLINOIS AVE AURORA, IL, 60506	
ROBLES, JOSE L JR & YOLANDA 4638 PLYMOUTH AVE YORKVILLE, IL, 60560	DICKSON, RICHARD WAYNE & ANITA LOUISE TRUST 927 B DICKSON RD BRISTOL, IL, 60512	

Otto Farms
506 E Pleasant Ave
Sandwich, IL 60548

Dan Terlap
6911 Meadow Dr
Crystal Lake, IL 60012

LS SWENSON 8

Glen Swenson
2953 N 4750th Rd
Sandwich, IL 60548

Norman Otto
6190 Millington Rd
Sandwich, IL 60548

Land Owner
Swenson, Claire & Kristie S
13620 Lisbon Rd
Newark, IL 60541

Sent 9.15.23

LaSalle County Health Department
717 E Etna Rd
Ottawa, IL 61350

Township
John Middleton
4404 E. 2552nd Rd
Leland, IL 60531
815-786-8919

KE Friestad 25
05-26-300-004

04/5/2023
10/15/2023

KEJ FRIESTAD FARMS
10065 CHICAGO RD
NEWARK, IL, 60541

PATRICK C DEC TRUST HARBOUR
10842 ASHLEY RD
YORKVILLE, IL, 60560

JAMES L LEEDY TR
11663 STATE RT 71
YORKVILLE, IL, 60560

LOUIS J & MARJORIE A LIV TR THUROW
4040 CANNONBALL TR APT 202
YORKVILLE, IL, 60560

TIMOTHY S WEIDERT
1030 NW 12TH ST APT A
PENDLETON, OR, 97801

TIMOTHY J & CYNTHIA J MCDONALD
7315 W INDIAN TRAIL RD
VERONA, IL, 60479

MPI-11 JOLIET ASSEMBLAGE LLC
535 PLAINFIELD RD STE B
WILLOWBROOK, IL, 60527

SETH C VI & CONNIE K SLEEZER
7214 CATON FARM RD
YORKVILLE, IL, 60560

STANLEY K TRUST & GENGLER
MARGARET J TRUST GENGLER
8830 CATON FARM RD
YORKVILLE, IL, 60560

MATTHEW MACFARLANE
7600 CATON FARM RD
YORKVILLE, IL, 60560

IVAN VILLALPANDO
7710 CATON FARM RD
YORKVILLE, IL, 60560

JOHN T JR & DONNA MCKAY
16908 ENNERDALE AVE
LOCKPORT, IL, 60441

LENKAITIS 20	LENKAITIS, ALBERT J & MARY E 6N411 CORRON RD SAINT CHARLES, IL, 60175-8420	10/26/2023
08-23-226-006	LENKAITIS, ANDREW C & SARAH A 6N707 CORRON RD SAINT CHARLES, IL, 60175-8420	CAMPTON TOWNSHIP 4N498 TOWNHALL RD SAINT CHARLES, IL, 60175-7860
BOWGREN, TERRY K & JOAN K PO BOX 101 WASCO, IL, 60183-0101	LENKAITIS, ANDREW C & SARAH A 6N707 CORRON RD SAINT CHARLES, IL, 60175-8420	PRAIRIE LAKES HOMEOWNERS ASSOC OF IL INC ASSOCIA CHICAGOLAND 50 E COMMERCE DR STE 110 SCHAUMBURG, IL, 60173-5615

KE Cryder 60
06-33-400-002

CRYDER FAMILY LTD PARTNERSHIP, % HENRY CRYDER
1090 JONES RD
MINOOKA, IL, 60447

CRYDER, SCOTT A
17160 BRISBIN RD
MINOOKA, IL, 60447

MJW FARMS LLC, % SHERYL L MEYERS
517 PRICE RD
AURORA, IL, 60506

MERRIGAN, CHRISTOPHER & MARJORI
3410 CHICAGO RD
MINOOKA, IL, 60447

BUNDY, DEAN A & KAROL J
3380 CHICAGO RD
MINOOKA, IL, 60447

ROBINSON, CHARLES R ET AL
10289 CATON FARM RD
MINOOKA, IL, 60447

WISSMILLER PAUL LIV TR & WISSMILLER LINDA LIV TR &, WISSMILLER QUINTIN P & STACI M
% PAUL WISSMILLER
9511 GROVE RD

ODONOVAN, LOUISE REVOC TRUST
2875 W ROUTE 126
PLAINFIELD, IL, 60544

S & R WHEELER FARMS LLC
2324 W WHEELER RD
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KAY JAY FARMS LLC, % ROBERT JR & TONI DHUSE
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BOONTON, NJ, 07005

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2585 GROVE RD
MINOOKA, IL, 60447-8521

BUNDY, DEAN A & KAROL J
3380 CHICAGO RD
MINOOKA, IL, 60447

WHITE, MARK J & BOBBI J
11882 PETERSON RD
MINOOKA, IL, 60447

BERNHARD, LEO E & LOIS I
18530 W HOFF RD
ELWOOD, IL, 60421

GONZALEZ, OSCAR & MAGDALENA
12005 PETERSON RD
MINOOKA, IL, 60447

MJW FARMS LLC, % SHERYL L MEYERS
517 PRICE RD
AURORA, IL, 60506

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 5800 wet tons

Years Applied 2021 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

John C. Stuart 3/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 33 and 34 KE Cryder 7-1

6.) Size of Area Where Lime is to be Used: 157 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Scott Cyrl 9-12-23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 34 KE Cryder 7-2

6.) Size of Area Where Lime is to be Used: 20 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Scott Cyrl 9-12-23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 18, 2023

2.) Name of User: Matt Kellogg

3.) Address of User: 9724 Schlapp Road Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: Kendall County, Kane County, Sugar Grove Township, Section 3 KA Kellogg 23

6.) Size of Area Where Lime is to be Used: 109 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

7/18/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 18, 2023

2.) Name of User: Dale Pitstick

3.) Address of User: 2N118 Pouley Rd Elburn, IL 60119

4.) Phone Number of User: 630-816-0223

5.) Location Where Lime is to be Used: Kane County, Blackberry Township, Section 4 KA Pitstick 155

6.) Size of Area Where Lime is to be Used: 152 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is:

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closet edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

9/18/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 9/12/23

2.) Name of User: Denny Nichols

3.) Address of User 45 W 045 Scott Road Sugar Grove, IL 60554

4.) Phone Number of User: 630-675-1258

5.) Location Where Sludge is to be Used: Kendall County, Bristol Township KE Nichols 160

6.) Size of Area Where Lime Residuals are to be Used: 160 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained:

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See Analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 9-12-23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/9/23

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 1400 wet tons

Years Applied 2022 and 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent _____.
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swenson 8/9/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: September 20, 2023

2.) Name of User: Kirk Friested

3.) Address of User: 10065 Chicago Road Newark, IL 60541

4.) Phone Number of User: 815.736.6165

5.) Location Where Sludge is to be Used: Kendall County, Kendall Township KE Friestad 25

6.) Size of Area Where Lime Residuals are to be Used: 74.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X Kirk Imeier 9-20-23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 9/12/23

2.) Name of User: Andy Lenkaitis

3.) Address of User: 6N707 Cornron Rd Saint Charles, IL 60175

4.) Phone Number of User: 630-200-8617

5.) Location Where Sludge is to be Used: Kane County, Campton Township, KA Lenkaitis 20

6.) Size of Area Where Lime Residuals are to be Used: 20 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained:

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See Analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 9/12/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

Andy Lentaitas

LRM0329

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 33 KE Cryder 60

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

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   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Scott Cyrl 9-12-23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

February 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for January 2024. This report includes all land application work done by Stewart Spreading for January 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: January 2024

Billie M Marks

Name	Date	Telephone
	2/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/21/23			Preparation Date: 07/21/23		
Analyzed By: SLO			Prepped By: SLO		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23			Preparation Date: 07/20/23		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

LRM0334

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 > 8.5 <	4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Jan-24**

Biosolids Field Record

KE Scott Cherry 155

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/2/2024	1/2/2024	City of Aurora - Lime	730.52	42.11	307.62
1/4/2024	1/4/2024	City of Aurora - Lime	176.70	35.31	62.39
1/5/2024	1/5/2024	City of Aurora - Lime	152.77	35.31	53.94
Total			1059.99		423.96

Biosolids Field Record

KE Scott Cherry 75

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/5/2024	1/5/2024	City of Aurora - Lime	692.83	35.31	244.64
Total			692.83		244.64

Scott Cherry

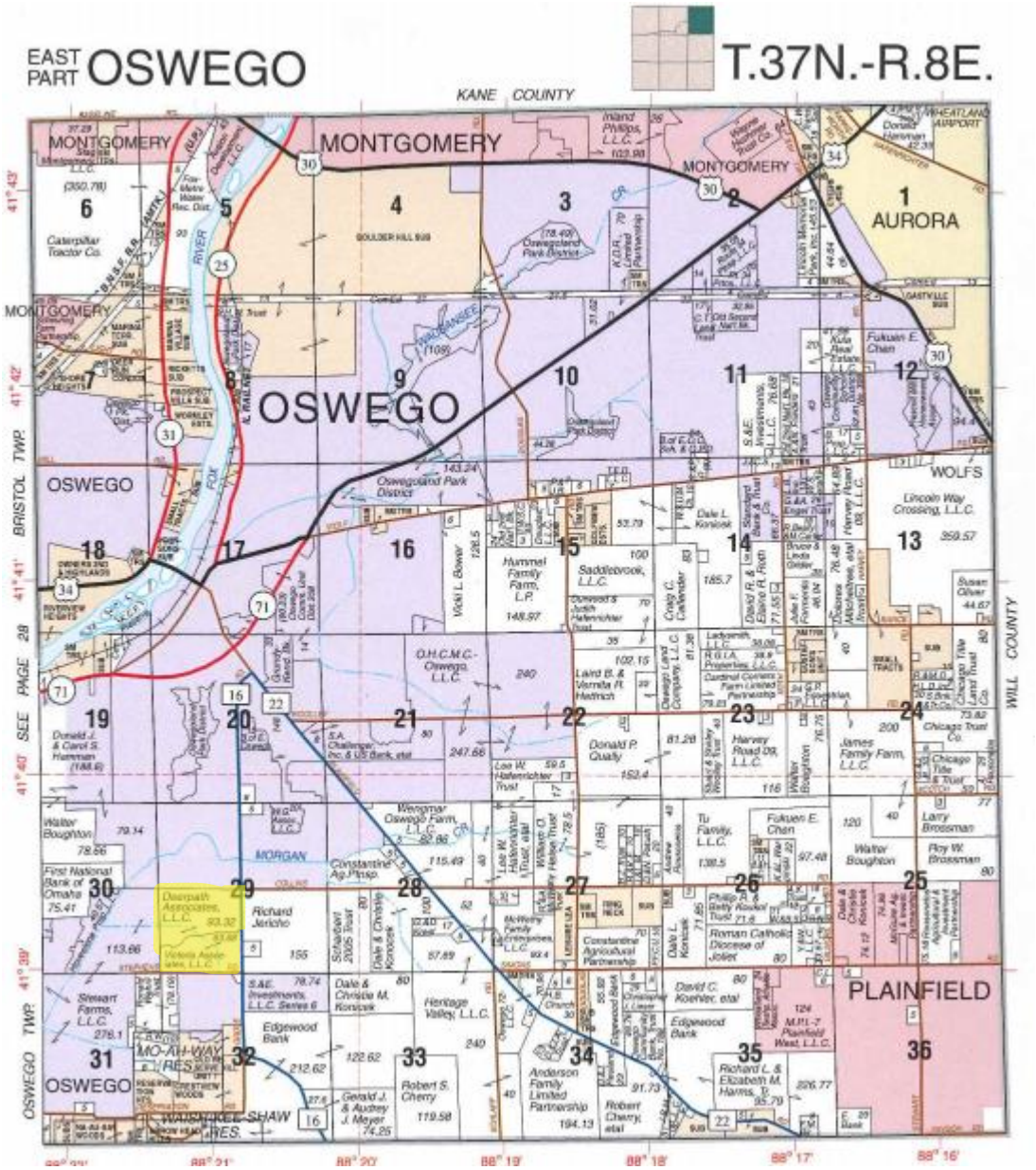
Scott Cherry 155 acres

Acres 136

Kendall County

Oswego Township

Section 29



Scott Cherry Scott Cherry 155 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 155
ACREAGE: 136
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 29

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.008	0.046	0.682	0.024	0.008	0.08	0	0	0.00	0	0.0130				1059.99	423.96
	TOTAL	0.01	0.05	0.68	0.02	0.01	0.08	0	0	0	0	0.013	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.443	pci/g
4	% of Total Cumulative Limit	59.38	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Scott Cherry

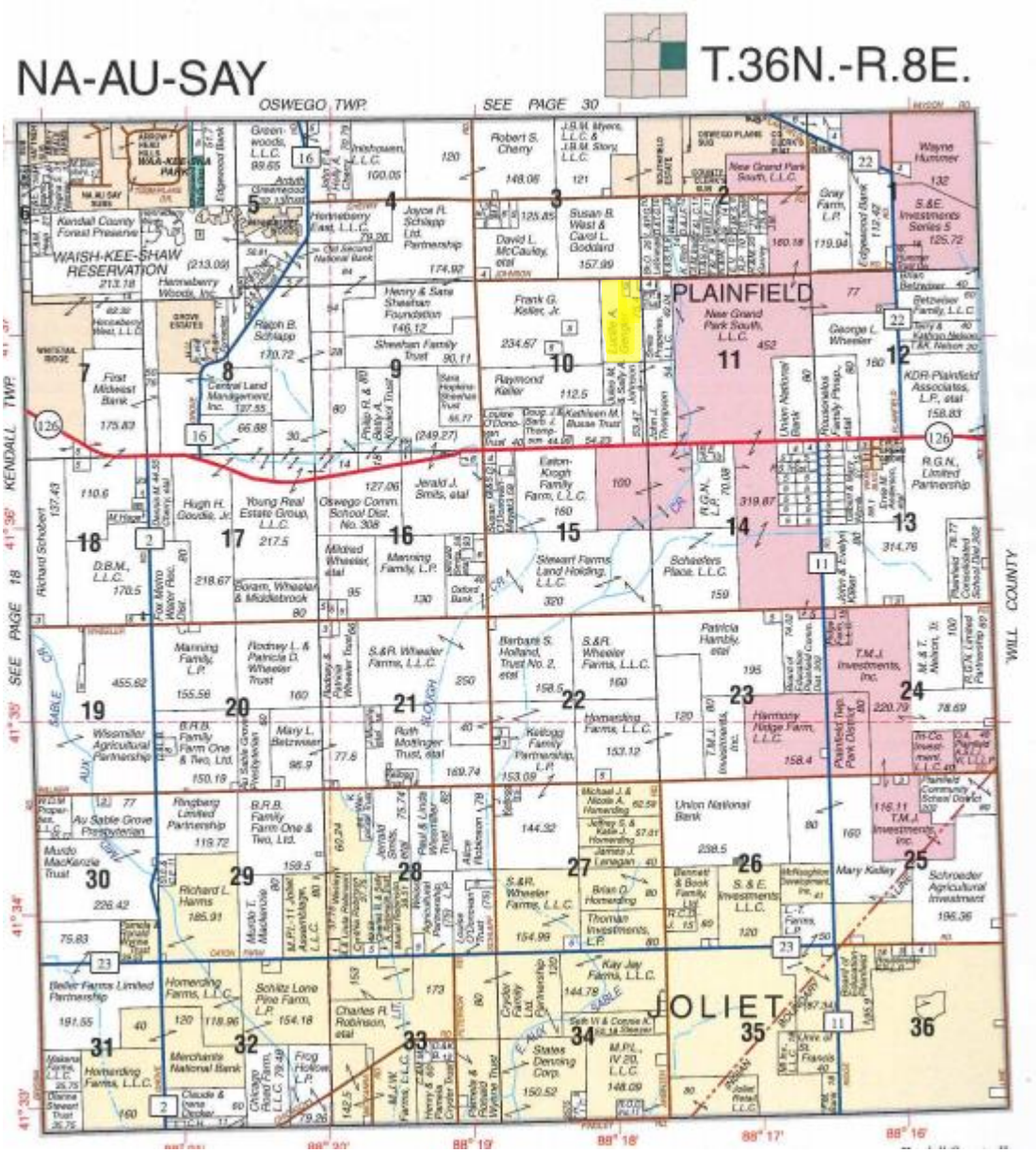
KE Cherry 75

68 acres

Kendall County

Na-Au-Say Township

Section 10


NA-AU-SAY
T.36N.-R.8E.
OSWEGO TWP.
SEE PAGE 30
KENDALL TWP.
SEE PAGE 18
WILL COUNTY
PLAINFIELD
JOLIET
WAISH-KEE-SHAW RESERVATION
Kendall County Forest Preserve
Au Sable Grove Presbyterian
Merchants National Bank
Union National Bank
Oswego Comm. School Dist. No. 308
Plainfield Community School District
Schroeder Agricultural Investment
Harmony Ridge Farm, L.L.C.
Homerding Farms, L.L.C.
Wissmiller Agricultural Partnership
Belter Farms Limited Partnership
Ringberg Limited Partnership
Stewart Farms Land Holding, L.L.C.
Eaton-Krogh Family Farm, L.L.C.
Schaefers Place, L.L.C.
New Grand Park South, L.L.C.
KDR-Plainfield Associates, L.P., etal
R.G.N. Limited Partnership
S.&E. Investments Series 5
S. & E. Investments, L.L.C.
T.M.J. Investments, Inc.
S.&R. Wheeler Farms, L.L.C.
B.R.B. Family Farm One & Two, Ltd.
Kay Jay Farms, L.L.C.
Thomas Investments, L.P.
Kellogg Family Partnership, L.P.
Manning Family, L.P.
Young Real Estate Group, L.L.C.
Central Land Management, Inc.
Hennesberry Woods, Inc.
Sheehan Family Trust
Joyce R. Schlapp Ltd. Partnership
Susan B. West & Carol L. Goddard
David L. McCauley, etal
Robert S. Cherry
Wayne Hummer
Gray Farm, L.P.
George L. Wheeler
Raymond Keller
Frank G. Keller, Jr.
Henry & Sara Sheehan Foundation
Ralph B. Schlapp
Jerald J. Smits, etal
Hugh H. Goodie, Jr.
Richard Schubert
First Midwest Bank
Fox Metro Water Dist.
Boram, Wheeler & Middlebrook
Rodney L. & Patricia D. Wheeler Trust
Barbara S. Holland, Trust No. 2, etal
Ruth Motzinger Trust, etal
Mary L. Betzwieser
Patricia Hambly, etal
Michael J. & Nicole A. Homerding
Jeffrey S. & Katie J. Homerding
James J. Lenagan
Brian D. Homerding
Bennett & Book Family, LLC
Mary Kelley
Richard L. Harms
Murdo T. Mackenzie
Murdo MacKenzie Trust
Schlitz Lone Pine Farm, L.P.
Charles R. Robinson, etal
Cindy Family Ltd. Partnership
States Deming Corp.
Frog Hollow, L.P.
Chicago Road Farm, L.L.C.
Claude & Ivana Decker
Diane Stewart Trust
Richard L. & Mary Ann Hansen
Seth W. & Connie K. Sheeler
Diocese of Joliet
St. Francis
Mokena L.L.C.
Mokena Partners, L.L.C.
Mokena Partners II, L.L.C.
Mokena Partners III, L.L.C.
Mokena Partners IV, L.L.C.
Mokena Partners V, L.L.C.
Mokena Partners VI, L.L.C.
Mokena Partners VII, L.L.C.
Mokena Partners VIII, L.L.C.
Mokena Partners IX, L.L.C.
Mokena Partners X, L.L.C.
Mokena Partners XI, L.L.C.
Mokena Partners XII, L.L.C.
Mokena Partners XIII, L.L.C.
Mokena Partners XIV, L.L.C.
Mokena Partners XV, L.L.C.
Mokena Partners XVI, L.L.C.
Mokena Partners XVII, L.L.C.
Mokena Partners XVIII, L.L.C.
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Mokena Partners XLVI, L.L.C.
Mokena Partners XLVII, L.L.C.
Mokena Partners XLVIII, L.L.C.
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Mokena Partners LXVI, L.L.C.
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Mokena Partners LXVIII, L.L.C.
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Mokena Partners CCXLII, L.L.C.
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Mokena Partners CCLXXXVII, L.L.C.
Mokena Partners CCLXXXVIII, L.L.C.
Mokena Partners CCLXXXIX, L.L.C.
Mokena Partners CCXC, L.L.C.
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Mokena Partners CCXCII, L.L.C.
Mokena Partners CCXCIII, L.L.C.
Mokena Partners CCXCIV, L.L.C.
Mokena Partners CCXCV, L.L.C.
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Mokena Partners CCXCVIII, L.L.C.
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Mokena Partners CCC, L.L.C.
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Mokena Partners CDXVIII, L.L.C.
Mokena Partners CDXIX, L.L.C.
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Scott Cherry Scott Cherry 75 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 75
ACREAGE: 68
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 10

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.009	0.053	0.792	0.027	0.009	0.093	0	0	0.00	0	0.0160				692.83	244.64
	TOTAL	0.01	0.05	0.79	0.03	0.01	0.09	0	0	0	0	0.016	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.446	pci/g
4	% of Total Cumulative Limit	59.51	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0344

Scott Cherry 155
06-03-400-006

12/15/2023

PLAINFIELD LAND LLC
10945 ROYAL PORTHCAWL DR
NAPERVILLE, IL, 60564

R SCOTT CHERRY HOLDINGS LLC
6069 SCHLAPP RD
OSWEGO, IL, 60543

KELLER, FRANK G JR
7426 SCHLAPP RD
OSWEGO, IL, 60543

HERGENHAHN, ADAM & BRITTANY
2018 JOHNSON RD
OSWEGO, IL, 60543

SMITS, JERRALD J TRUST & ET AL
8848 STARK DR
BURR RIDGE, IL, 60527

R SCOTT CHERRY HOLDINGS LLC
6069 SCHLAPP RD
OSWEGO, IL, 60543

PASTERIS, PETER J JR & LAURIE JO
1998 JOHNSON RD
OSWEGO, IL, 60543

THOMPSON, JOHN J & DORIS M
1170 ASTPM CIR 7A
BURNSVILLE, MN, 55337

JOHNSON, JULES M & SALLY A
4385 QUAIL ST
WHEAT RIDGE, CO, 80033

KELLER, RAYMOND
8814 WALKER RD
YORKVILLE, IL, 60560

KELLER, FRANK G JR
7426 SCHLAPP RD
OSWEGO, IL, 60543

JBM PLAINFIELD LLC
4200 CANTERA DR
SUITE 114
WARRENVILLE, IL, 60555

LARSEN, GREGORY L & KRISTINE K JT TEN TR
6475 SOUTHFIELD LN
OSWEGO, IL, 60543

HRYCKIEWICZ, MICHAEL & DANA
2018 DEVONSHIRE CT
OSWEGO, IL, 60543

LEDVINA, EDWARD G & TERRI P
1960 DEVONSHIRE CT
OSWEGO, IL, 60543

GIBSON, LARI & PAULA JT REV LIV TRUST
1962 CHERRY RD
OSWEGO, IL, 60543

BANK ONE LAGRANGE
% ROBERT L SOHOL
1995 JOHNSON RD
OSWEGO, IL, 60543

Scott Cherry 75
06-10-200-003

12/15/2023
3/15/2024

PLAINFIELD LAND LLC
10945 ROYAL PORTHCAWL DR
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KELLER, FRANK G JR
7426 SCHLAPP RD
OSWEGO, IL, 60543

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 155

6.) Size of Area Where Lime is to be Used: 136 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

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2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 75

6.) Size of Area Where Lime is to be Used: 68 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Robert Scott Ch 12/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

March 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for February 2024. This report includes all land application work done by Stewart Spreading for February 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: February 2024

Billie M Marks

Name	Date	Telephone
	3/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/21/23			Preparation Date: 07/21/23		
Analyzed By: SLO			Prepped By: SLO		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23			Preparation Date: 07/20/23		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038** Analysis Date: 07/20/23 Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011** Analysis Date: 07/24/23 Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B** Analysis Date: 07/26/23 Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011** Analysis Date: 07/20/23 Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R** Analysis Date: 08/30/23 Analyzed By: MICROB				
Radium 226 > 8.5	< 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0** Analysis Date: 08/07/23 Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0** Analysis Date: 08/07/23 Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Feb-24**

Biosolids Field Record

KE Scott Cherry 150

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/19/24 and 2/20/24	City of Aurora - Lime	1141.62	40	456.65
Total			1141.62		456.65

Biosolids Field Record

KE Scott Cherry 130

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/20/2024	City of Aurora - Lime	401.65	40	160.66
Total			401.65		160.66

Biosolids Field Record

KE Scott Cherry 100

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/20/24 and 2/21/24	City of Aurora - Lime	179.53	40	71.81
2/20/2024	2/20/24 and 2/21/24	City of Aurora - Lime	124.02	46.93	58.20
2/20/2024	2/20/24 and 2/21/24	City of Aurora - Lime	545.72	37.57	205.03
2/21/2024	2/20/24 and 2/21/24	City of Aurora - Lime	305.77	45.11	137.93
Total			1155.04		472.97

Biosolids Field Record

KE G Brummel 105

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/22/2024	2/22/2024	City of Aurora - Lime	1261.16	42.98	542.05
Total			1261.16		542.05

Biosolids Field Record

KE G Brummel 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/22/2024	2/23/2024	City of Aurora - Lime	326.27	42.98	140.23
2/23/2024	2/23/2024	City of Aurora - Lime	1029.88	37.29	384.04
Total			1356.15		524.27

Biosolids Field Record

KE Santoro 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/21/2024	2/23/2024	City of Aurora - Lime	233.91	45.11	105.52
2/23/2024	2/23/2024	City of Aurora - Lime	226.10	37.29	84.31
2/26/2024	2/26/2024	City of Aurora - Lime	453.75	40.14	182.14
Total			913.76		371.96

Biosolids Field Record

KE G Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/26/2024	2/26/2024	City of Aurora - Lime	160.91	40.14	64.59
Total			160.91		64.59

Biosolids Field Record

KE Scott Cherry 75

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/19/2024	City of Aurora - Lime	87.50	40	35.00
Total			87.50		35.00

Scott Cherry

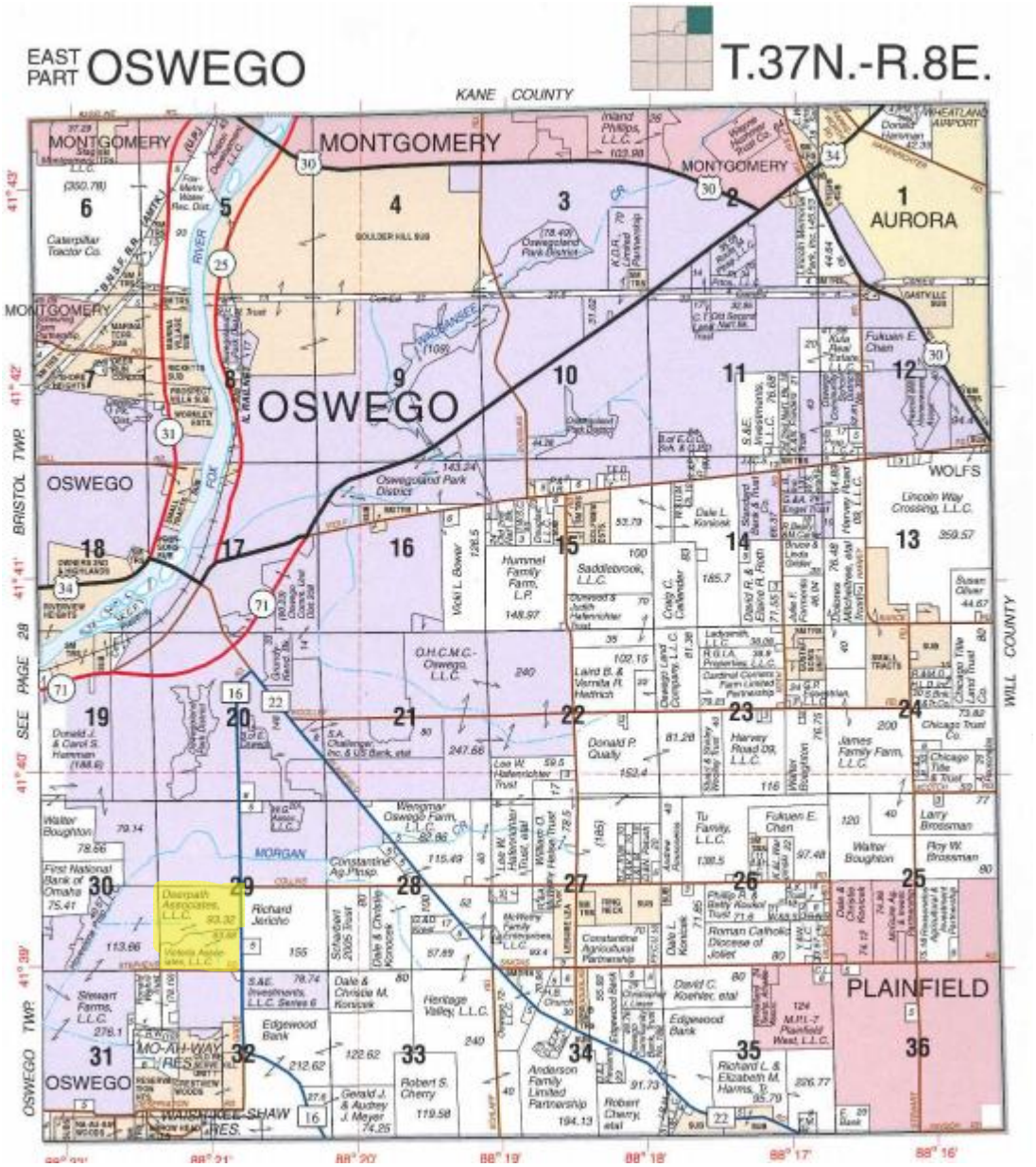
Scott Cherry 150 acres

Acres 136

Kendall County

Oswego Township

Section 29



Scott Cherry

Scott Cherry 150 acres

Acres 136

Kendall County

Oswego Township

Section 29

59A	Lisbon silt loam, 0 to 2 percent slopes	10.4	6.3%	.20 to 0.60 in/hr
60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	0.5	0.3%	.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.7	11.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.9	2.3%	0.06 to 0.60 in/hr
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	10.3	6.2%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	43.9	26.5%	.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	23.2	14.0%	.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	24.0	14.5%	.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	0.4	0.2%	.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	30.3	18.3%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 150
ACREAGE: 136
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 29

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.008	0.05	0.739	0.026	0.008	0.087	0	0	0.00	0	0.0150				1141.62	456.65
	TOTAL	0.01	0.05	0.74	0.03	0.01	0.09	0	0	0	0	0.015	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative total to Date	1.945	pci/g
4	% of Total Cumulative Limit	66.38	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Scott Cherry

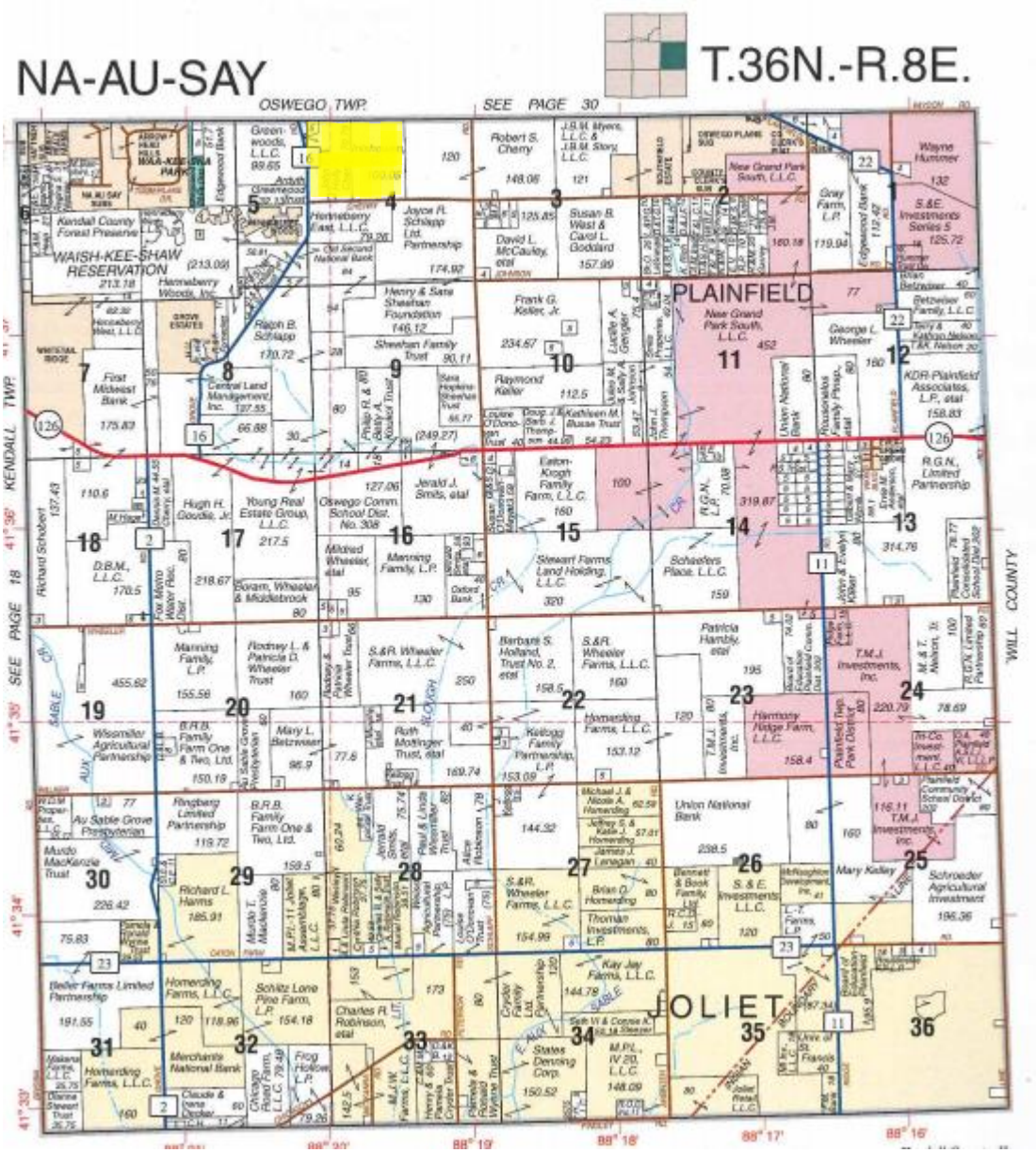
KE Cherry 130

150 acres

Kendall County

Na-Au-Say Township

Section 4



Scott Cherry

Scott Cherry 130 acres

Acres 150

Kendall County

Na-Au-Say Township

Section 4

59A	Lisbon silt loam, 0 to 2 percent slopes	10.4	6.3%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.7	11.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.9	2.3%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	0.6	0.4%	06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	0.2	0.2%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	2.1	1.3%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	70.6	44.9%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.2	1.4%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 130
ACREAGE: 150
COUNTY: Kendall
TOWNSHIP: Na-Au-Say Township
SECTION: 4

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.003	0.016	0.235	0.008	0.003	0.028	0	0	0.00	0	0.0050				401.65	160.66
	TOTAL	0	0.02	0.24	0.01	0	0.03	0	0	0	0	0.005	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	1.010	pci/g
2	Site Limit	2.010	pci/g
3	Cumulative total to Date	1.015	pci/g
4	% of Total Cumulative Limit	50.49	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Scott Cherry

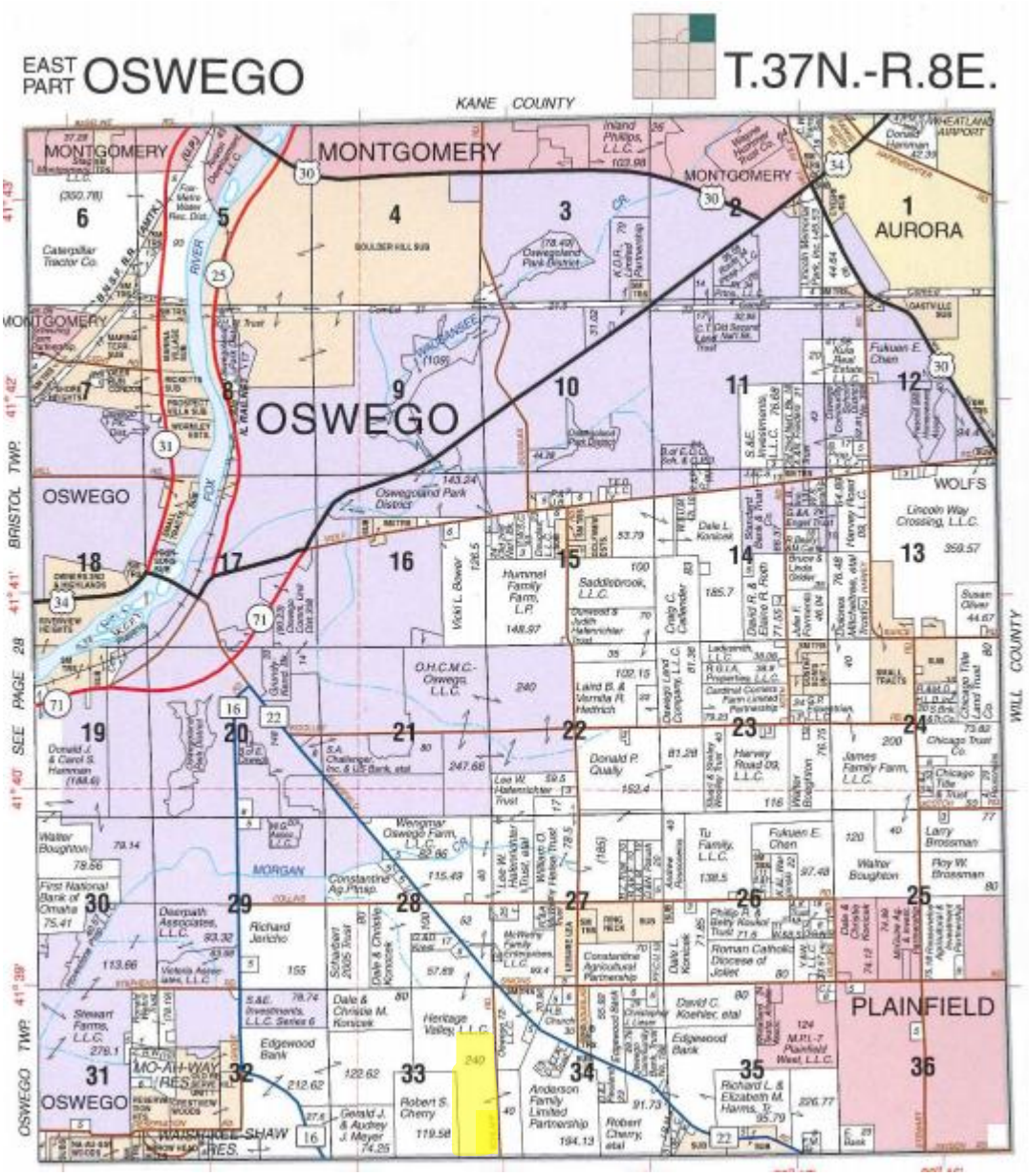
KE Cherry 100

115 acres

Kendall County

Oswego Township

Section 33



Scott Cherry

KE Cherry 100

115 acres

Kendall County

Oswego Township

Section 33

59A	Lisbon silt loam, 0 to 2 percent slopes	14.3	11.5%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	6.6	5.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	39.2	31.6%	.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	7.0	5.6%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	11.4	9.2%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.1	26.7%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	12.7	10.2%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 100
ACREAGE: 115
COUNTY: Kendall
TOWNSHIP: Oswego Township
SECTION: 33

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.01	0.061	0.904	0.031	0.01	0.106	0	0	0.00	0	0.0180				1155.04	472.97
	TOTAL	0.01	0.06	0.9	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.378	pci/g
4	% of Total Cumulative Limit	79.27	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Gerry Brummel

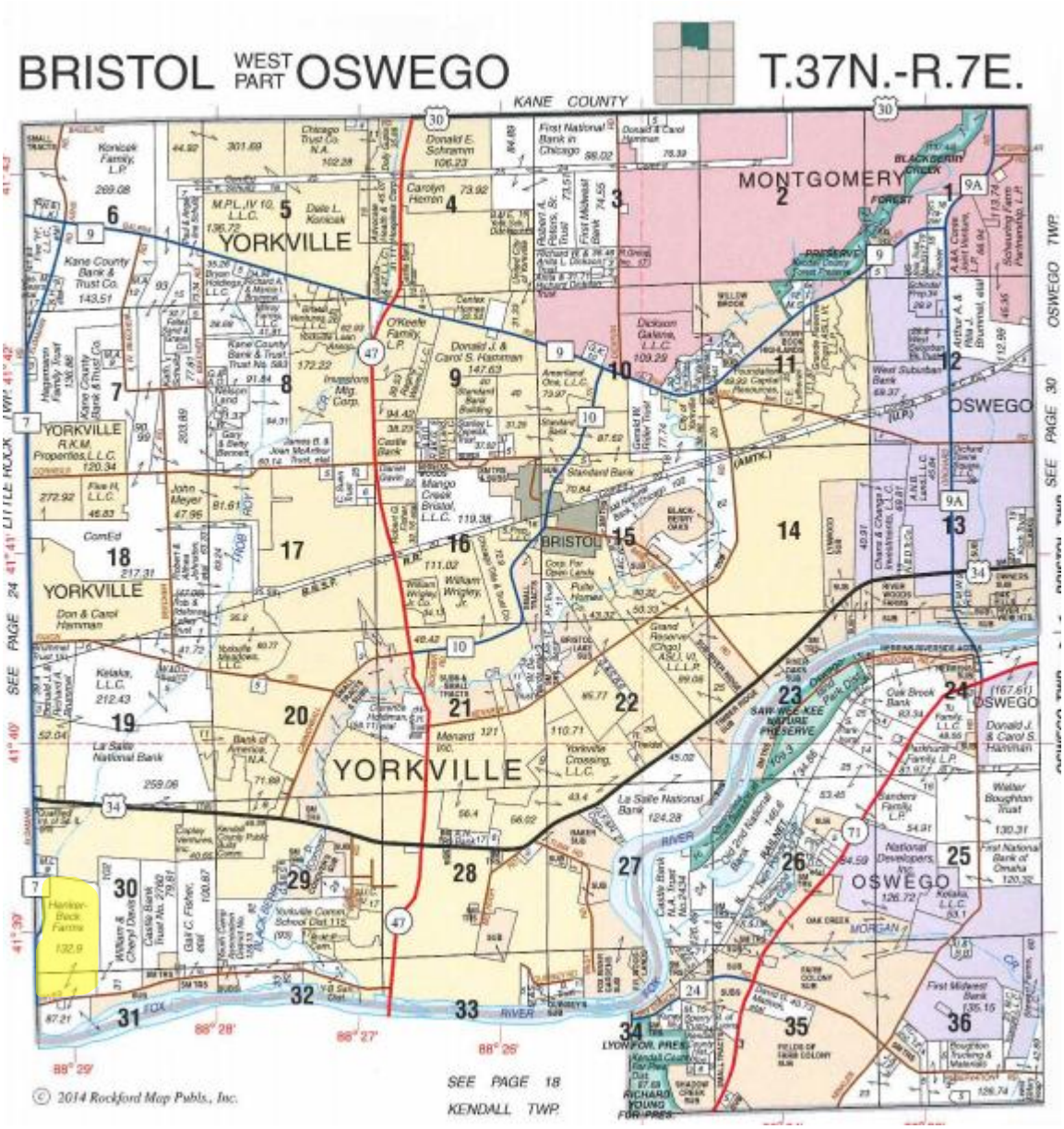
KE G Brummel 10

115 acres

Kendall County

Bristol Township

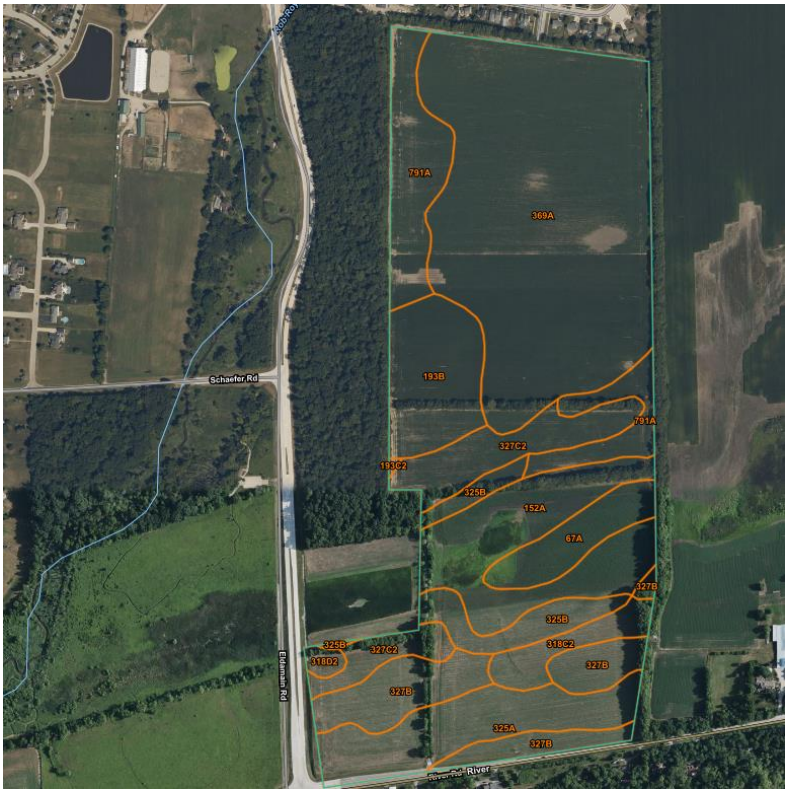
Section 30



Gerry Brummel

KE G Brummel 10
115 acres
Kendall County
Bristol Township
Section 30

67A	Harpster silty clay loam, 0 to 2 percent slopes	4.5	3.8%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	13.2	11.1%	.60 to 2.00 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	8.3	7.0%	.06 to 0.60 in/hr
193C2	Mayville silt loam, 5 to 10 percent slopes, eroded		0.1	0.1% .06 to 0.60 in/hr
318C2	Lorenzo loam, 4 to 6 percent slopes, eroded	3.2	2.7%	.60 to 2.00 in/hr
318D2	Lorenzo loam, 6 to 12 percent slopes, eroded	0.6	0.5%	.60 to 2.00 in/hr
325A	Dresden silt loam, 0 to 2 percent slopes	9.9	8.3%	.60 to 2.00 in/hr
325B	Dresden silt loam, 2 to 4 percent slopes	5.2	4.4%	.60 to 2.00 in/hr
327B	Fox silt loam, 2 to 4 percent slopes	10.3	8.6%	.60 to 2.00 in/hr
327C2	Fox silt loam, 4 to 6 percent slopes, eroded	8.7	7.2%	.60 to 2.00 in/hr
369A	Waupecan silt loam, 0 to 2 percent slopes	45.0	37.5%	.60 to 2.00 in/hr
791A	Rush silt loam, 0 to 2 percent slopes	10.7	8.9%	.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE G Brummel 10 (105) COUNTY: Kendall

ACREAGE: 115 TOWNSHIP: Bristol

SECTION: 30

FARMER: Gerry Brummel

ADDRESS:

PHONE #:

Source of biosolids

1 Aurora Lime

2 City of Naperville-pile 1

3 City of Naperville-pile 2

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Feb.24	0.012	0.07	1.034	0.036	0.012	0.121	0	0	0	0	0.020	
2	April.24	0.01	4.58	2.3	0.14	0.09	6.48	0.04	0.01	0.06	0.08		
3	April.24	0	1.94	0.97	0.06	0.04	2.75	0.02	0	0.03	0.03		
	TOTAL	0.02	6.59	4.3	0.24	0.14	9.35	0.06	0.01	0.09	0.11		pci/g
	%of LIMIT	0.2	2.6	0.5	0.2	0	1.9	0.1	0	1.1	0.7		

Background Radium	2.090	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.110	pci/g
% of Total Cumulative Limit	70.33	%

1 Background Radium determined from soil test results

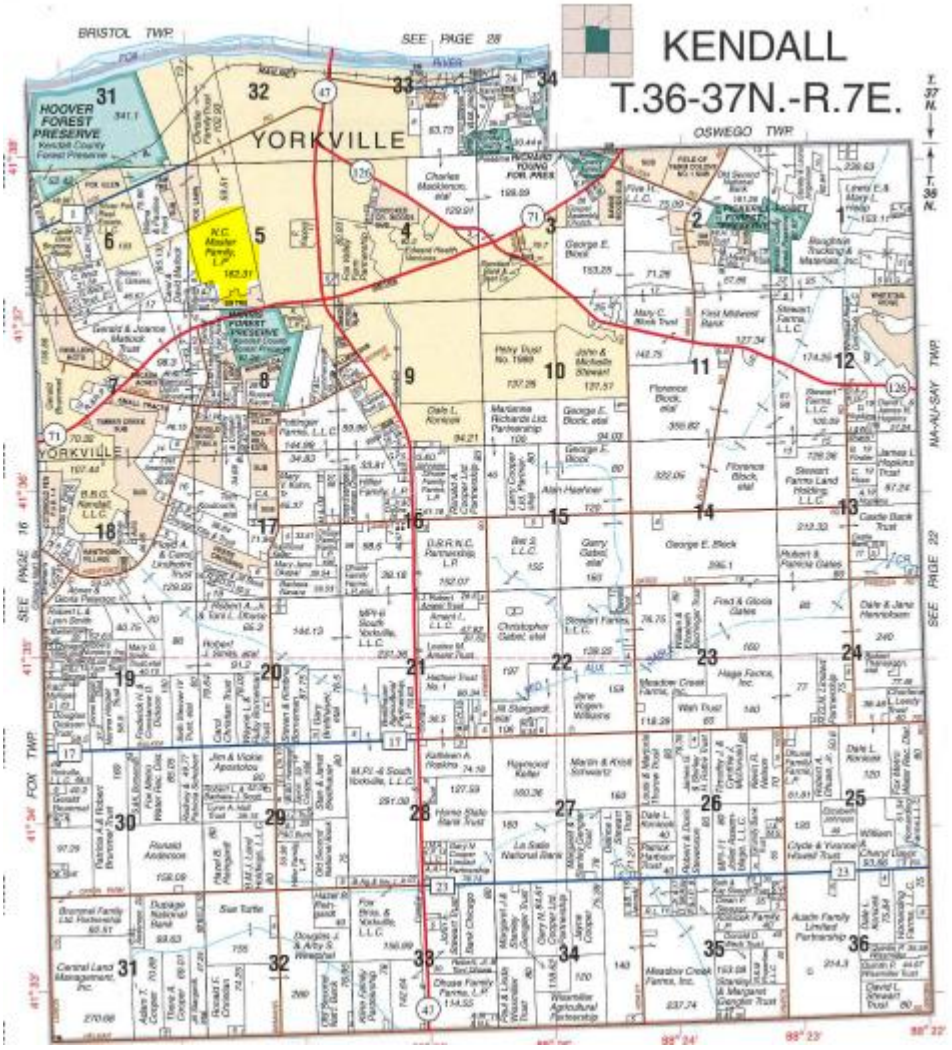
2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Gerry Brummel

KE Gerry Brummel 5
131 acres
Kendall County
Kendall Township
Section 5



Gerry Brummel

KE Gerry Brummel 5
131 acres
Kendall County
Kendall Township
Section 5

59A	Lisbon silt loam, 0 to 2 percent slopes 0.20 to 0.60 in/hr	12.8	9.6%
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 131.59
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 5

Source of biosolids
1 Plainfield
2 Aurora Lime
3 Lasma Lagoon 28
4 Lasma Cell 5
5 Harlem
6 Glendale Heights
7 Naperville

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	12/1/2019	0.21	0.98	0.64	0.07	0.03	1.22	0.01	0.002	0.02	0.03				1975		269.79	
2	12/1/2020	0.007	0.026	0.534	0.025	0.007	0.064	0	0	0	0	0.005	6.25 pci/g			602.36	218.66	
3	21-May	0.02	4.39	5.03	0.48	0.78	7.4	0.12	0	0.1	0.14					3135.98	636.61	
4	21-May	0.010	2.000	2.840	0.190	0.450	4.000	0.1	0	0.05	0.06					1156.29	315.67	
3	Nov-21	0	0.34	0.39	0.03	0.07	0.68	0.01	0	0.01	0.01					225.03	50.18	
5	Nov-21	0.04	6.13	6.06	0.65	1.32	12.4	0.15	0.01	0.14	0.24					3843.44	922.42	
2	Nov-21	0.005	0.022	0.58	0.02	0.005	0.052	0	0	0	0	0.003	3.57 pci/g			821.23	243.17	
6	May-23	0	0.03	0.05	0	0	0.05	0	0	0	0				40		5.40	
7	May-23	0.02	9.08	4.35	0.3	0.2	13.18	0.07	0.01	0.12	0.16				5826.00		969.47	
2	Feb.23	0.01	0.059	0.88	0.03	0.01	0.103	0	0	0	0	0.017				1356.15	524.27	
	TOTAL	0.32	23.06	21.35	1.8	2.87	39.15	0.46	0.02	0.44	0.64	0.025	pci/g					
	%of LIMIT	3.2	9.2	2.4	1.8	0.3	7.8	0.5	0	5.5	4							

Background Radium	1.220	pci/g
Site Limit	2.220	pci/g
Cumulative Total to Date	1.245	pci/g
% of Total Cumulative Limit	56.08	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Santoro

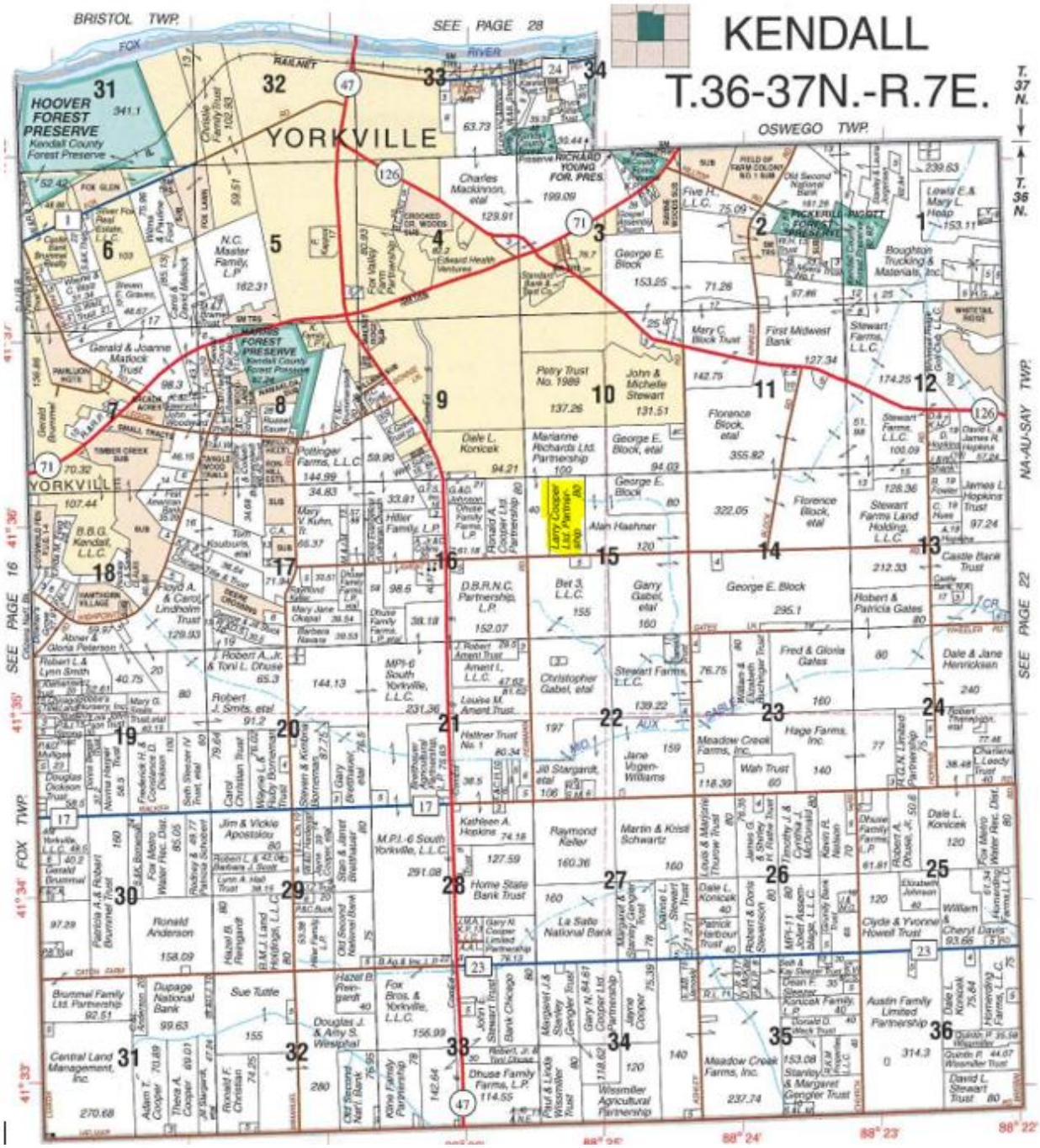
KE Santoro 3

65 acres

Kendall County

Kendall Town ship

Section 15



Santoro

KE Santoro 3

65 acres

Kendall County

Kendall Town ship

Section 15

59A	Lisbon silt loam, 0 to 2 percent slopes	15.4	18.6%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	12.7	15.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.8	4.6%	.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	9.9	11.9%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	25.6	30.9%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	8.2	9.9%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	7.3	8.8%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Santoro 3
ACREAGE: 65
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 15

FARMER: Frank Santoro
ADDRESS: 2080 Simons Rd
Oswego, IL 60543
PHONE #:

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Feb.24	0.014	0.085	1.258	0.043	0.014	0.148	0	0	0	0	0.025	
TOTAL		0.01	0.09	1.26	0.04	0.01	0.15	0	0	0	0		pci/g
%of LIMIT		0.1	0	0.1	0	0	0	0	0	0	0		

Background Radium	2.090	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.110	pci/g
% of Total Cumulative Limit	70.33	%

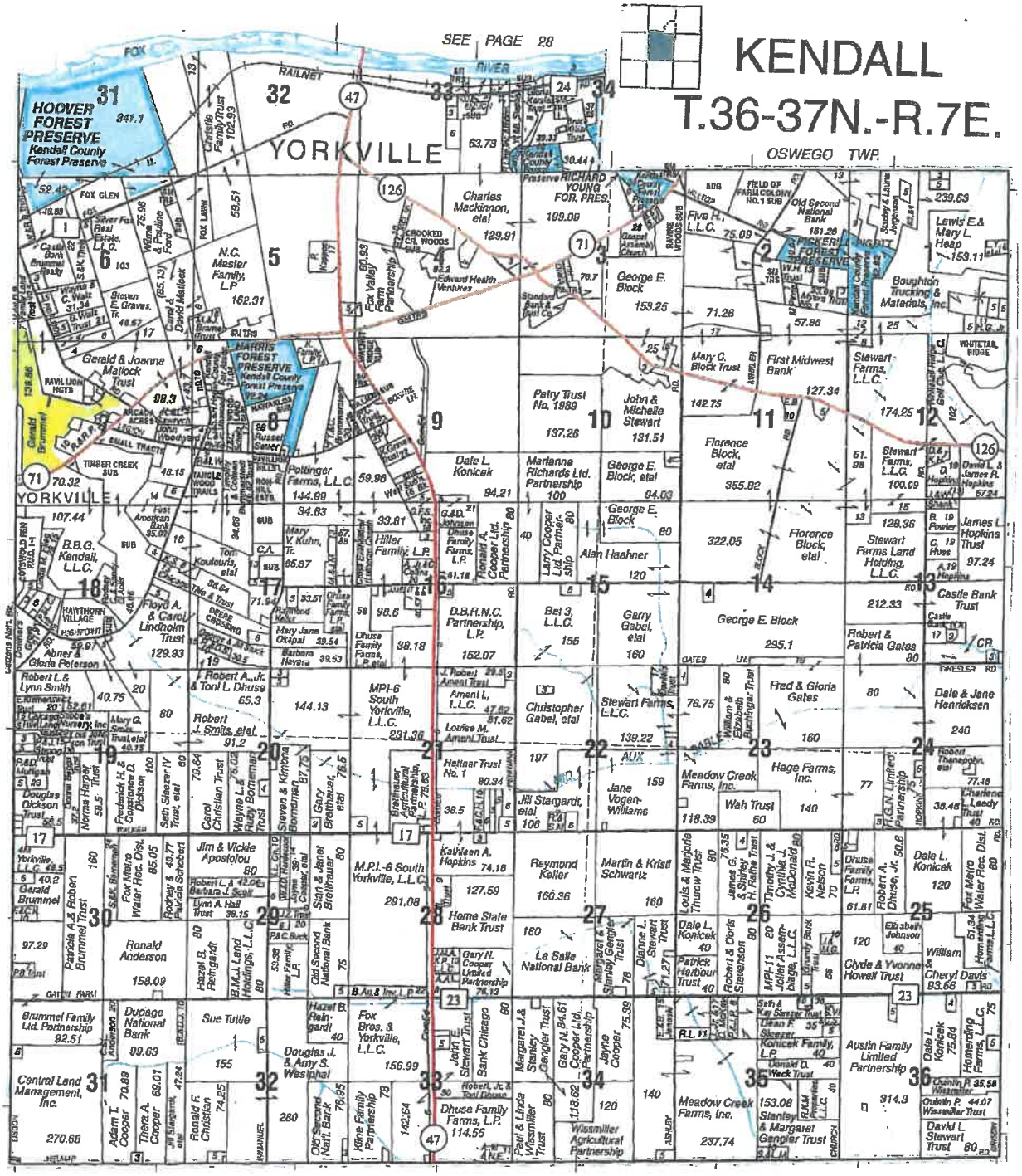
1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Gerry Brummel

KE Gerry Brummel 1

70 acres

Kenadall Township



LRM0375

Gerry Brummel

KE Gerry Brummel 1
70 acres
Kendall County
Kendall Township
Section 7

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	25.6	17.6%
224D3	Strawn clay loam, 10 to 18 percent slopes, severely eroded (0.06 to 0.60 in/hr)	0.4	0.3%
325B	Dresden silt loam, 2 to 4 percent slopes (0.60 to 2.00 in/hr)	12.0	8.2%
330A	Peotone silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	1.7	1.2%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 70
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

Source of biosolids
1 LASMA Lagoon 28
2 Aurora
3 Plainfield
4 Marathon lag 25 and cells 2,3,4
5 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
40 acres 1	8/1/2016	0.1	8.62	8.63	0.8	1.62	15.06	0.1	0.01	0.1	0.38		
40 acres 2	11/1/2016	0.018	0.054	0.97	0.032	0.021	0.186	0	0	0	0	0.009	pci/g
40 acres 3	5/1/2018	0.047	2.78	1.45	0.14	0.06	3.69	0.01	0.005	0.04	0.08		
40 acres 3	12/1/2019	0.041	1.950	1.270	0.150	0.050	2.440	0.01	0.004	0.03	0.05		
40 acres 2	Nov-20	0.024	0.095	1.93	0.089	0.024	0.231	0	0	0	0	0.019	6.25 pci/g
40 acres 1	May-21	0.04	8.92	10.23	0.98	1.59	15.04	0.24	0.01	0.2	0.29		
40 acres 1	Nov-21	0.1	8.56	9.89	0.85	1.68	17.27	0.19	0.01	0.19	0.35		
70 acres 4	May-23	0.06	10.25	14.43	0.88	1.98	17.387	0.06	0.01	0.21	0.27		
70 acres 5	May-23	0	0.12	0.06	0	0	0.14	0	0	0	0		
2	Feb.24	0.002	0.014	0.202	0.007	0.002	0.024	0	0	0	0	0.004	
	TOTAL	0.43	41.35	48.86	3.92	7.03	71.44	0.61	0.05	0.77	1.42	0.032	pci/g
	%of LIMIT	4.3	16.5	5.4	3.9	0.7	14.3	0.6	0.1	9.6	8.8		

4.7 pci/g

Background Radium	1.665	pci/g
Site Limit	2.665	pci/g
Cumulative Total to Date	1.697	pci/g
% of Total Cumulative Limit	63.67	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Scott Cherry

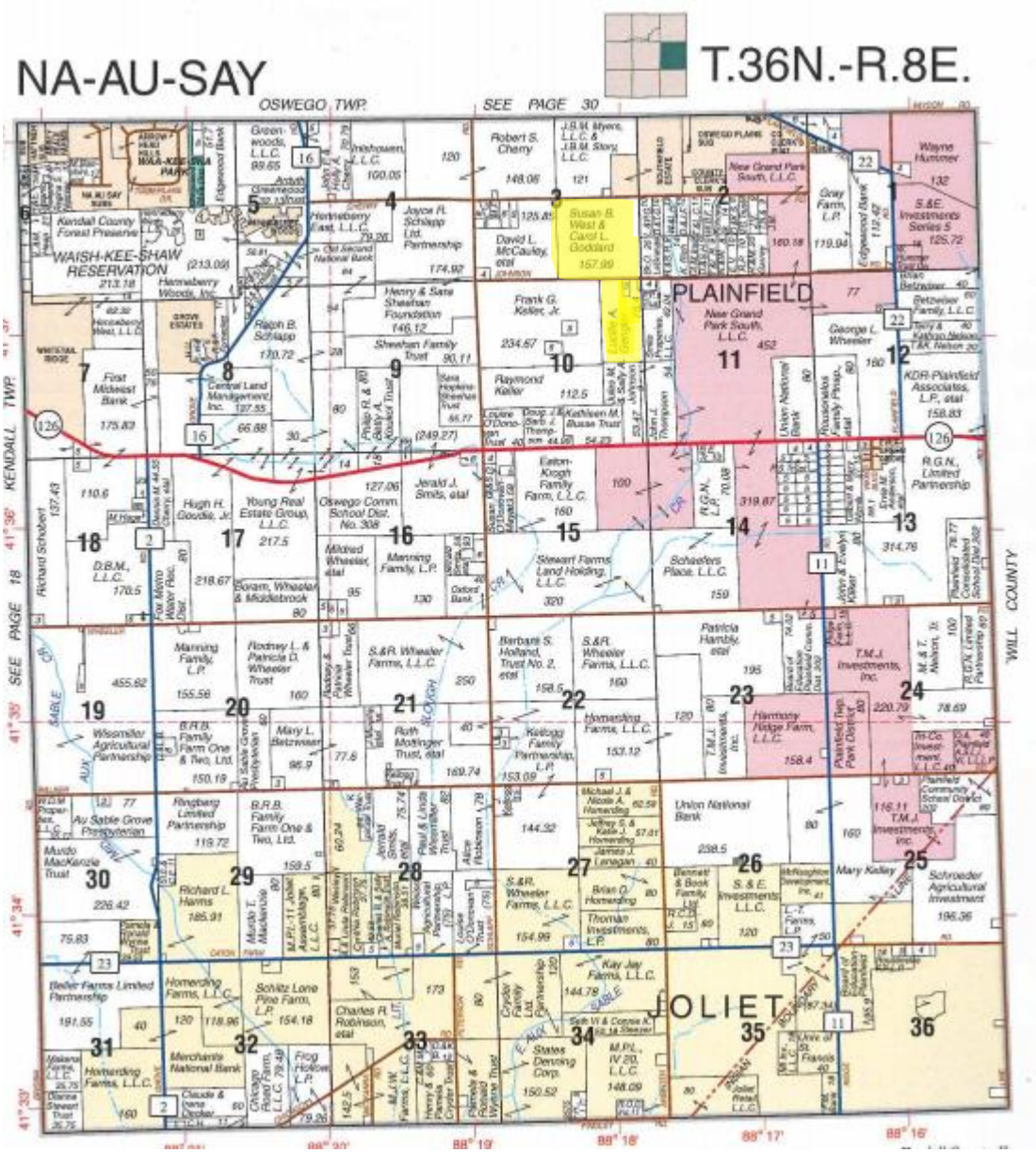
KE Cherry 75, KE Cherry 155

230 acres

Kendall County

Na-Au-Say Township

Section 10


NA-AU-SAY
T.36N.-R.8E.
OSWEGO TWP.
SEE PAGE 30
SEE PAGE 18
KENDALL TWP.
WILL COUNTY
PLAINFIELD
JOLIET
WAISH-KEE-SHAW RESERVATION
Kendall County Forest Preserve
Au Sable Grove Presbyterian
Merchants National Bank
Union National Bank
Oswego Comm. School Dist. No. 308
Plainfield Community School District
Schroeder Agricultural Investment
Wisemiller Agricultural Partnership
Homerding Farms, L.L.C.
Stewart Farms Land Holding, L.L.C.
Eaton-Krogh Family Farm, L.L.C.
Schaefers Place, L.L.C.
Harmony Ridge Farm, L.L.C.
Homarding Farms, L.L.C.
S.&R. Wheeler Farms, L.L.C.
Kay Jay Farms, L.L.C.
Thomas Investments, L.P.
S. & E. Investments, L.L.C.
T.M.J. Investments, Inc.
S.&E. Investments Series 5
KDR-Plainfield Associates, L.P., etal
R.G.N. Limited Partnership
Robert S. Cherry
Susan R. West & Carol L. Goddard
Joyce R. Schlapp Ltd. Partnership
Henry & Sara Sheehan Foundation
Sheehan Family Trust
Frank G. Keller, Jr.
Raymond Keller
Jerald J. Smits, etal
Ruth Motzinger Trust, etal
Barbara S. Holland, Trust No. 2, etal
Patricia Hambly, etal
Mary Kelley
Richard L. Harms
Charles R. Robinson, etal
States Deming Corp.
Wayne Hummer
George L. Wheeler
Gray Farm, L.P.
Hugh H. Goudie, Jr.
Young Real Estate Group, L.L.C.
Boram, Wheeler & Middlebrook
Manning Family, L.P.
Rodney L. & Patricia D. Wheeler Trust
Mary L. Betzwieser
B.R.B. Family Farm One & Two, Ltd.
Ringberg Limited Partnership
Mudo MacKenzie Trust
Belter Farms Limited Partnership
Schlitz Lone Pine Farm, L.P.
Frog Hollow L.P.
Chicago Road Farm, L.L.C.
Homarding Farms, L.L.C.
Michael J. & Nicole A. Homarding
Jeffrey S. & Katie J. Homarding
James J. Lenagan
Brian D. Homarding
Bennett & Book Family, LLC
McNaughton Development, Inc.
Seth W. & Connie K. Sheeler
Diocese of Joliet
Catholic Bishop of Chicago
Fox Metro Water Dist.
Plainfield Twp. Park District
Plainfield Twp. Road District
Richard Schubert
Ringberg Limited Partnership
Green-woods L.L.C.
Hennebery West, L.L.C.
Hennebery Woods, Inc.
Grove Estates
Ralph B. Schlapp
Philip R. & Betty A. Kruckeberg Trust
Central Land Management, Inc.
First Midwest Bank
Old Second National Bank
Edgewood Bank
Aztalan Greenwood Trust
Yeshouwen, L.L.C.
Arrow Head Hills Maa-Kee-Wa Park
Nu Au Say Subd.
Susan Hopkins-Sheehan Trust
Louise O'Donoghue Trust
Douglas J. & Barb J. Thompson
Kathleen M. Busse Trust
Lucy M. & Sally A. Johnson
John J. Thompson
Union National Bank
Plainfield Township Road District
Plainfield Consolidated School Dist. 202
Plainfield Community School District
Plainfield Township Park District
Board of Education Plainfield Community School Dist. 202
Board of Education Plainfield Community School Dist. 202
Diocese of Joliet
Catholic Bishop of Chicago
Fox Metro Water Dist.
Oswego Fire Protection Dist. No. 1
Oswego Fire Protection Dist. No. 1
Oswego Fire Protection Dist. No. 1

Scott Cherry Scott Cherry 75 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 75
ACREAGE: 68
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 10

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.009	0.053	0.792	0.027	0.009	0.093	0	0	0.00	0	0.0160				692.83	244.64
1	Feb.24	0.001	0.01	0	0.004	0.001	0.01	0	0	0.00	0	0.0020				87.5	35
TOTAL		0.01	0.06	0.9	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
%of LIMIT		0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.448	pci/g
4	% of Total Cumulative Limit	59.58	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0381

KE Scott Cherry 150
03-29-300-007
03-29-300-005

HP ILLINOIS I LLC
120 S RIVERSIDE PLAZA STE 2000
CHICAGO, IL, 60606

HOWARD, JAMES R & ANNE E TRUST
422 SUDBURY CIR
OSWEGO, IL, 60543

CARDENAS, MANUEL & PAULINE
424 SUDBURY CIR
OSWEGO, IL, 60543

BONENBERGER, THOMAS & LINNEA
416 SUDBURY CIR
OSWEGO, IL, 60543

GOODALL, JAMES E JR & KIMBERLY A
418 SUDBURY CIR
OSWEGO, IL, 60543

VICTORIA ASSOCIATES LLC
% KRILL & KRILL ATTY AT LAW
18 S FIFTH ST
GENEVA, IL, 60134

GRIFFIN BRETT &, NORRIS KATHLEEN
412 SUDBURY CIR
OSWEGO, IL, 60543

HACKER, MERRILL R & KAY L
414 SUDBURY CIR
OSWEGO, IL, 60543

VILLAGE OF OSWEGO
100 PARKERS MILL
OSWEGO, IL, 60543

PEARAH, GEORGE & BARBARA
PO BOX 825
OSWEGO, IL, 60543

KOSNIK, RICHARD
410 SUDBURY CIR
OSWEGO, IL, 60543

LINDSEY, NINA
546 SUDBURY CIR
OSWEGO, IL, 60543

ANDERSON, DAMON A &, MILLS, KATHRYN E
404 SUDBURY CIR
OSWEGO, IL, 60543

LOPEZ KAREN &, GALENO IVONNE
406 SUDBURY CIR
OSWEGO, IL, 60543

BRAUN, LESLIE
544 SUDBURY CIRCLE
OSWEGO, IL, 60543

MARQUIS, DAWN G
402 SUDBURY CIR
OSWEGO, IL, 60543

LUNN ANNE M &, POPPE KRIS E
400 SUDBURY CIR
OSWEGO, IL, 60543

LOCHINVAR INVESTMENTS LLC
18 S FIFTH ST 1ST FLR
GENEVA, IL, 60134

SUDBURY INVESTMENTS LLC
PO BOX 509
MONTGOMERY, IL, 60538

DEERPATH CREEK HOMEOWNERS
18 S FIFTH ST
GENEVA, IL, 60134

LOCHINVAR INVESTMENTS LLC
18 S FIFTH ST 1ST FLR
GENEVA, IL, 60134

SKOLEK, JEFFREY & JEANNINE
516 SUDBURY CIR
OSWEGO, IL, 60543

ZERNA, ELMER V & BARBARA
512 SUDBURY CIR
OSWEGO, IL, 60543

RODRIGUEZ, DIANA & RUDOLPH JR
526 SUDBURY CIR
OSWEGO, IL, 60543

APIQUIAN, HEIDI MARIE
520 SUDBURY CIR
OSWEGO, IL, 60543

COYLE, PATRICIA J
514 SUDBURY CIR
OSWEGO, IL, 60543

CHICAGO TITLE LAND TRUST COMPANY, TR TRUST: 8002365966
% CAROL I MAZZA
524 SUDBURY CIR
OSWEGO, IL, 60543

OWENS, CHARLES T & ANNE C
522 SUDBURY CIR
OSWEGO, IL, 60543

GREENWOOD, CYNTHIA
518 SUDBURY CIR
OSWEGO, IL, 60543

POLONUS, RICHARD B & ARETHA
426 SUDBURY CIR
OSWEGO, IL, 60543

CHMIELEWSKI, JANE L & STEVE
428 SUDBURY CIR
OSWEGO, IL, 60543

WILLHITE, JAMES R REVOC TR
430 SUDBURY CIR
OSWEGO, IL, 60543

KE Scott Cherry 150 Pg 2		2/12/2024
SCHWANZ, JOAN CHERYL & RICHARD 4822 GROVE RD OSWEGO, IL, 60543	S & E INVESTMENTS LLC SERIES 6 2411 DORINA DR NORTHFIELD, IL, 60093	HADDADIN, OMAR 5050 HALF ROUND RD OSWEGO, IL, 60543
UMANA FREDYS MARTINEZ &, VALERA MARIA DEL CARMEN LOPEZ 568 CHESTNUT DR OSWEGO, IL, 60543	IANNELLO, ROBERT & VALERIE N 5019 GROVE RD OSWEGO, IL, 60543	GARCIA, ANTHONY J & JENNIFER M 5060 HALF ROUND RD OSWEGO, IL, 60543
CONROY, MARGARET A TRUST 566 CHESTNUT DR OSWEGO, IL, 60543	SCHRAMM, KEVIN E & KENDRA R 5510 BLUESTEM CT OSWEGO, IL, 60543	NELSON, PAUL E & AMY L 5070 HALF ROUND RD OSWEGO, IL, 60543
SCHWANZ, E RICHARD & JOAN 4822 GROVE RD OSWEGO, IL, 60543	SCIBIOR HENRYK &, SKRZYPEK ELZBIETA 5040 HALF ROUND RD OSWEGO, IL, 60543	SMITH, MICHAEL J & ANDREA R 5085 HALF ROUND RD OSWEGO, IL, 60543
WEHRLI, RONALD J TR 4900 PRAIRIE CROSSING OSWEGO, IL, 60543	WEHRLI, RONALD TRUST 4900 PRAIRIE CROSSING OSWEGO, IL, 60543	
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KE Scott Cherry 130
06-04-100-010
06-04-100-007

2/12/2024

INISHOWEN LLC
1107A S BRIDGE ST
YORKVILLE, IL, 60560

CHERRY FAMILY TRUST, LAURA J BURK TTEE
% HOLLY A CHERRY
6230 GROVE RD
OSWEGO, IL, 60543

CHERRY FAMILY TRUST LAURA J BURK TTEE, % AT & T NETWORK REAL ESTATE ADMIN.
16TH FLOOR RE 10074462
754 PEACHTREE ST

TURVEY, RAYMOND T & ANGELA L
6022 GROVE RD
OSWEGO, IL, 60543

MEYER, GERALD J & AUDREY J TRUST: LIV TR
5826 GROVE RD
OSWEGO, IL, 60543

CHERRY, ROBERT SCOTT
6069 SCHLAPP RD
OSWEGO, IL, 60543

SCHLAPP, JOYCE R LTD PARTSHIP
% GAEBLER GAIL
202 E MAIN ST
YORKVILLE, IL, 60560

KHATER, KEVIN A & MAYA B
50 RUE FORET
LAKE FOREST, IL, 60045

HENNEBERRY WOODS INC
401 S MAIN ST STE 300
NAPERVILLE, IL, 60540

BURK, DAVID A & LAURA C
3867 CHERRY RD
OSWEGO, IL, 60543

GREENWOOD, ARDYTH L TRUST
% GREENWOOD ARDYTH L
6425 GROVE RD
OSWEGO, IL, 60543

GREENWOODS LLC
6425 GROVE RD
OSWEGO, IL, 60543

KE Cherry 100 03-33-200-001		2/12/2024
HERITAGE VALLEY LLC, % LAND PRO LLC 2681 US HWY 34 OSWEGO, IL, 60543		
CHERRY, ROBERT SCOTT 6069 SCHLAPP RD OSWEGO, IL, 60543	SPECIALTY OSWEGO LLC 150 PAULARINO AVE BLDG C COSTA MESA, CA, 92626	MCWETHY FAMILY ENTERPRISES LLC 12762 YACHT CLUB CIR FORT MYERS, FL, 33919-4530
WENGMAR ASHCROFT FARM LLC, % LAND PRO LLC 2681 US HWY 34 OSWEGO, IL, 60543		

KE G Brummel 10		3/15/2024
BECK DAVID &, BECK RYAN & PATRICK 11836 RIVER RD PLANO, IL, 60545	BECK, ELAINE H LIV TRUST ETAL, DBA HENKER-BECK FARMS 406 CORRI LN PLANO, IL, 60545	BECK, JAMES 11748 RIVER RD PLANO, IL, 60545
KEANE, MICHAEL P & MARTA M 11714 RIVER RD PLANO, IL, 60545	COLWELL, MARION 1212 EVERGREEN LN YORKVILLE, IL, 60560	CYKO, JAMES L & KRISTIN L 1210 EVERGREEN LN YORKVILLE, IL, 60560
BROWN, BRIAN A & HALEY R 1208 EVERGREEN LN YORKVILLE, IL, 60560	FORBES, JUSTIN EUGENE 1206 EVERGREEN LN YORKVILLE, IL, 60560	KOCUR, MARKIAN & HEATHER 1204 EVERGREEN LN YORKVILLE, IL, 60560
COURTWRIGHT, CRAIG & MAUREEN 1202 EVERGREEN LN YORKVILLE, IL, 60560	LEE, CHRISTINA E 1201 WILLOW WAY YORKVILLE, IL, 60560	VANMETER, BRIAN L & LISA A 1203 WILLOW WAY YORKVILLE, IL, 60560
JENSEN, DIANE M 1207 WILLOW WAY YORKVILLE, IL, 60560	ORLOVE, DAREN J & KRISTI L 1205 WILLOW WAY YORKVILLE, IL, 60560	SCHUERMAN, JOSEPH ROBERT & KRISTI RENEE 1209 WILLOW WAY YORKVILLE, IL, 60560
WRAY, AMANDA L 1211 WILLOW WAY YORKVILLE, IL, 60560	DJIDIC, DENIS & KAYLA 1213 WILLOW WAY YORKVILLE, IL, 60560	MOLKENTINE, PATRICK L JR 4378 ELDAMAIN RD PLANO, IL, 60545
4334 ELDAMAIN FARM LLC % MARIANA SOLARI 1425 N JACKSON RIVER FOREST, IL, 60305	KENDALL COUNTY FOREST PRESERVE 1 110 W MADISON ST YORKVILLE, IL, 60560	ADAMCZYK, DEREK M & BEATA K 12025 RIVER RD PLANO, IL, 60545

UNITED CITY OF YORKVILLE
800 GAME FARM RD
YORKVILLE, IL 60560

MCCRACKEN, HAROLD L & MARY R
506 WALSH CT
YORKVILLE, IL 60560

RIVA, BRUCE A & TANYA L
1833 WALSH DR
YORKVILLE, IL 60560

UNITED CITY OF THE VILLAGE OF YORKVILLE
800 GAME FARM RD
YORKVILLE, IL 60560

DEARBORN, ROBERT JR & DEBRA
503 GREENBRIAR RD
YORKVILLE, IL 60560

STANLEY, TIMOTHY & WENDY
1849 WALSH ST
YORKVILLE, IL 60560

PARK NATIONAL BANK
C/O RAXANNE PILAT
2271 PALMER CIR
NAPERVILLE, IL 60564

COLLINS, MICHAEL S & JENNIE K
498 SUNFLOWER CT
YORKVILLE, IL 60560

WILLIAMSON BRENDAN P &, PHILLIPS RACHEL M
1863 WALSH DR
YORKVILLE, IL 60560

HENRIKSEN, MARTIN P & JERITHA
1828 WALSH DR
YORKVILLE, IL 60560

BASS, MIKE & AMY
1782 WALSH DR
YORKVILLE, IL 60560

JOHNSON LEVON JR &, TART-JOHNSON NEKESHA AKIYA
1867 WALSH DR
YORKVILLE, IL 60560

NICKELS, MICHAEL J & ELIZABETH
1873 WALSH DR
YORKVILLE, IL 60560

WEISS, BRIAN R & JENNETTE A
476 WALSH CIR
YORKVILLE, IL 60560

TAFT, CHRISTOPHER JOHN
1869 WALSH DR
YORKVILLE, IL 60560

WELSH, PEGGY J
1875 WALSH DR
YORKVILLE, IL 60560

BARNETT, TERRI L
1877 WALSH DR
YORKVILLE, IL 60560

STEVENS, CYNTHIA P
1879 WALSH DR
YORKVILLE, IL 60560

KLASINSKI, ANGELLICA M & AHNG MICHAEL J
1887 WALSH CIR
YORKVILLE, IL 60560

BAUDER, JASON S
1881 WALSH CIR
YORKVILLE, IL 60560

GRUBAR, MICHAEL J & KATHY A
1885 WALSH CIR
YORKVILLE, IL 60560

NOLE, CHRISTOPHER & KIMBERLY K
1866 WALSH DR
YORKVILLE, IL 60560

MAGNUSSEN, SCOTT & MARGARET
1862 WALSH DR
YORKVILLE, IL 60560

DURANCIK, DANIEL & ADRIENE
1889 WALSH DR
YORKVILLE, IL 60560

CHERNEY, RYAN J
1676 WALSH DR
YORKVILLE, IL 60560

RAYBURN, STEVEN L & HELEN K
1844 WALSH DR
YORKVILLE, IL 60560

KORMENAKER, CLARK M & DANA E
1883 WALSH DR
YORKVILLE, IL 60560

GENGLER, JOHN RANDALL & VALHERIA L
1674 WALSH DR
YORKVILLE, IL 60560

MCCARTY, JAMES & BARBARA
1608 WALSH DR
YORKVILLE, IL 60560

DEARBORN, ROBERT JR & DEBRA
503 GREENBRIAR RD
YORKVILLE, IL 60560

KE Santoro 3
05-15-100-002

2/12/2024

CLASSIC INVESTMENTS LLC
640 B RANCE RD
OSWEGO, IL, 60543

RICHARDS, MARIANNE LTD PTNRSHP
1012 VISTA CIR
FRANKLIN, TN, 37067

HAEHNER, ALAN R REV TR
9304 VIKING HILLS CT APT #D
INDIANAPOLIS, IN, 46250

BET3 LLC
9095 IMMANUEL RD
YORKVILLE, IL, 60560

RUMSHAS, DENNIS
8614 AMENT RD
YORKVILLE, IL, 60560

KE J. Brummel 1
05-07-326-003

BRUMMEL, GERALD
13205 CHURCH RD
MINOOKA, IL 60447

Kendal County Health Dept.
811 John St,
Yorkville, IL 60560

Sent 3/15/2023
9/15/2023 and 12/15/23

Kendall Township
9925 Route 47
Yorkville, IL 60560

BORNEMAN, NEIL L & BEVERLY L & CRAIG L
12403 BUDD RD
YORKVILLE, IL 60560

LEEDY, JAMES L & BARBARA R
11663 STATE RTE 71
YORKVILLE, IL 60560

BBG KENDALL LLC, % BRIDGEVIEW BANK GROUP
4753 N BROADWAY
CHICAGO, IL 60640

PIERCE, ESTHER J
222 A HILLCREST AVE
YORKVILLE, IL 60560

SAAR, MICHAEL O & DAYLE E
14 TIMBERCREEK DR
YORKVILLE, IL 60560

LOPEZ, CATARINO &, GUTIERREZ, SERGIO
1011 GREENVIEW DR
AURORA, IL 60505

BRONGIEL, GERALD & CONNIE
9120 RT 34
YORKVILLE, IL 60560

BRONGIEL, GERALD & CONNIE
9120 RT 34
YORKVILLE, IL 60560

Scott Cherry 75
06-10-200-003

12/15/2023
3/15/2024

PLAINFIELD LAND LLC
10945 ROYAL PORTHCAWL DR
NAPERVILLE, IL, 60564

KELLER, FRANK G JR
7426 SCHLAPP RD
OSWEGO, IL, 60543

HERGENHAHN, ADAM & BRITTANY
2018 JOHNSON RD
OSWEGO, IL, 60543

SMITS, JERRALD J TRUST & ET AL
8848 STARK DR
BURR RIDGE, IL, 60527

R SCOTT CHERRY HOLDINGS LLC
6069 SCHLAPP RD
OSWEGO, IL, 60543

PASTERIS, PETER J JR & LAURIE JO
1998 JOHNSON RD
OSWEGO, IL, 60543

THOMPSON, JOHN J & DORIS M
1170 ASTPM CIR 7A
BURNSVILLE, MN, 55337

JOHNSON, JULES M & SALLY A
4385 QUAIL ST
WHEAT RIDGE, CO, 80033

KELLER, RAYMOND
8814 WALKER RD
YORKVILLE, IL, 60560

KELLER, FRANK G JR
7426 SCHLAPP RD
OSWEGO, IL, 60543

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 150

6.) Size of Area Where Lime is to be Used: 136 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 130

6.) Size of Area Where Lime is to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 100

6.) Size of Area Where Lime is to be Used: 115 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Robert Scott Ch 12/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Rd Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 10

6.) Size of Area Where Lime is to be Used: 115 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Rd Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 5

6.) Size of Area Where Lime is to be Used: 131 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied Approx 1400 wet tons

Years Applied 2020 and 2021

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 1/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 9, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 3

6.) Size of Area Where Lime is to be Used: 65 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent _____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss; as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

1/9/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 1

6.) Size of Area Where Lime Residuals are to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 850 wet tons

Years Applied 2020

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 1/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 75

6.) Size of Area Where Lime is to be Used: 68 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

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   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Robert Scott Ch 12/13/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

April 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for March 2024. This report includes all land application work done by Stewart Spreading for March 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: March 2024

Billie M Marks

Name	Date	Telephone
	4/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/21/23			Preparation Date: 07/21/23		
Analyzed By: SLO			Prepped By: SLO		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23			Preparation Date: 07/20/23		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

LRM0407

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
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Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

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IL ELAP / NELAC Accreditation # 100292
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Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Mar-24**

Biosolids Field Record

KE Jim Brummel 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	163.42	35.92	58.70
3/13/2024	3/13/2024	City of Aurora - Lime	917.89	50.97	467.85
Total			1081.31		526.55

Biosolids Field Record

KE Gerry Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	938.25	35.92	337.02
Total			938.25		337.02

Biosolids Field Record

KE Jim Brummel 2 (24)

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	260.91	35.92	93.72
Total			260.91		93.72

Biosolids Field Record

KE Seth Sleezer 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/13/2024	3/13/2024	City of Aurora - Lime	479.45	50.97	244.38
Total			479.45		244.38

Biosolids Field Record

KE Swenson 25

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/13/2024	3/19/2024	City of Aurora - Lime	250.11	50.97	127.48
3/19/2024	3/19/2024	City of Aurora - Lime	586.31	44.71	262.14
Total			836.42		389.62

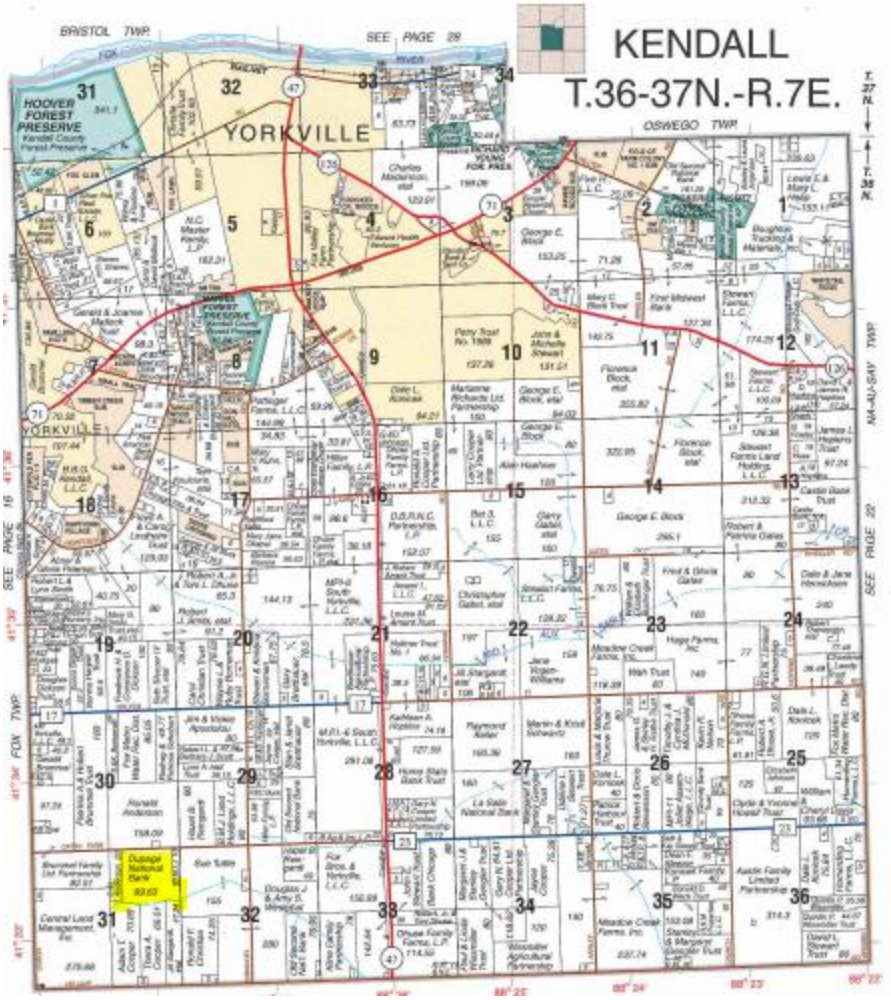
Biosolids Field Record

KE G Brummel 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/19/2024	3/19/2024	City of Aurora - Lime	194.11	44.71	86.79
Total			194.11		86.79

Jim Brummel

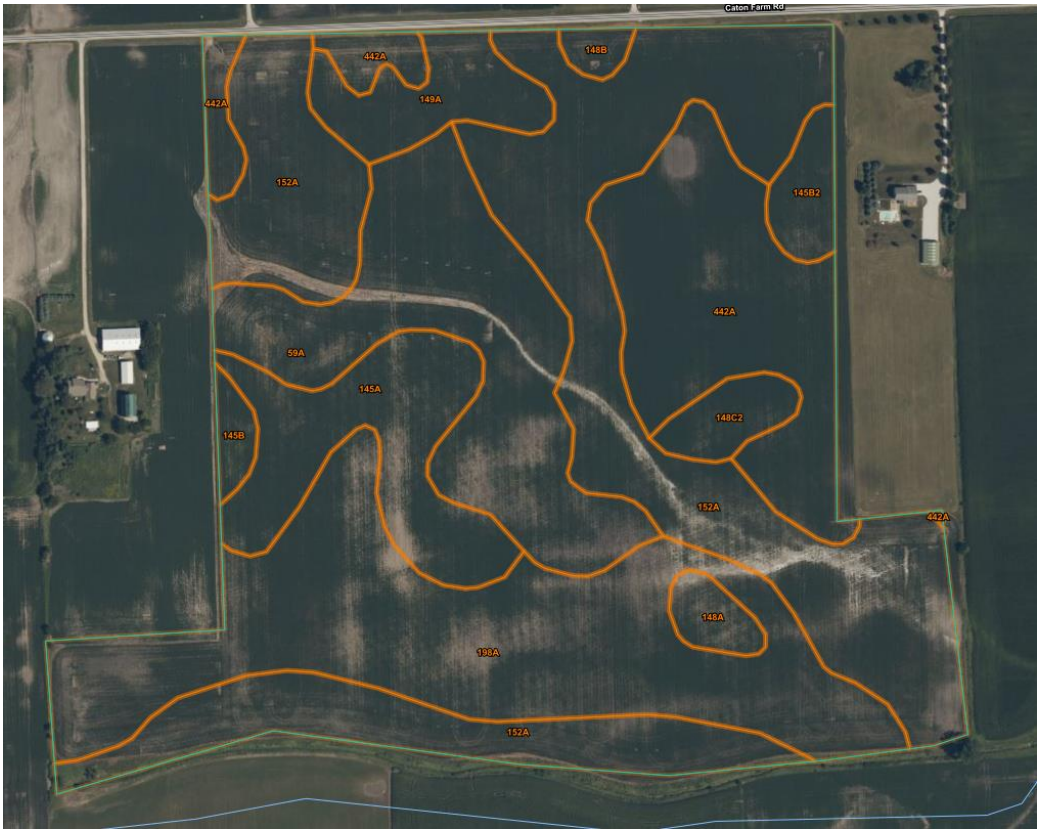
KE J Brummel 3
93 acres
Kendall County
Kendall Township
Section 31



Jim Brummel

KE Jim Brummel 3
93 Acres
Kendall County
Kendall Township
Section 31

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr
59A	Lisbon silt loam, 0 to 2 percent slopes	13.2	13.8%	0.20 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	7.3	7.7%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	0.7	0.8%	0.06 to 0.60 in/hr
148A	Proctor silt loam, 0 to 2 percent slopes	1.0	1.1%	0.60 to 2.00 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	0.6	0.6%	0.20 to 0.60 in/hr
148C	Proctor silt loam, 5 to 10 percent slopes, eroded	1.5	1.6%	0.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	0.7	3.4%	3.6 60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	32.4	33.8%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 3
ACREAGE: 93
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 31

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Vulcan
3 City of Naperville-pile 1
4 City of Naperville-pile 2
5 DuPage
6 Aurora Lime
7 Plainfield

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April 2021	0.04	7.62	8.88	0.86	1.39	13.02	0.23	0	0.18	0.27					2422.09	489.27
2	April 2021	0.02	3.19	4.53	0.3	0.71	6.39	0.16	0	0.07	0.1					1299.01	354.63
3	December 2021	0.01	4.57	2.14	0.12	0.09	6.02	0.03	0	0.05	0.06				1798		302.25
4	December 2021	0	3	1.39	0.08	0.06	4.12	0.02	0	0.04	0.04				1370		214.01
5	December 2021	0	0.4	0.25	0.02	0.02	0.52	0	0	0	0.01				200		26.15
6	December 2021	0.001	0.005	0.128	0.004	0.001	0.012	0	0	0	0	0.001				126.8	37.91
7	May-23	0.038	2.48	1.28	0.15	0.04	3.54	0.08	0.004	0.08	0.08				4062		453.50
1	Nov.23	0.02	3.38	3.74	0.33	0.85	7.14	0.02	0	0.08	0.14					1492.49	376.11
6	March.24	0.014	0.084	1.245	0.043	0.014	0.146	0	0	0	0	0.0250	8.5 pci/g			1081.31	526.55
3	April.24	0	2.46	1.23	0.08	0.05	3.49	0.02	0	0.03	0.04				1320.00		209.57
4	April.24	0	1.04	0.5	0.03	0.02	1.38	0.01	0	0.01	0.02				606.00		96.72
	Cumulative Total	0.14	28.23	25.31	2.02	3.25	45.78	0.57	0	0.54	0.76	0.026					
	%of LIMIT	1.4	11.3	2.8	2	0.3	9.2	0.6	0	6.8	4.7						

1	Background Radium	2.390	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.416	pci/g
4	% of Total Cumulative Limit	80.53	%

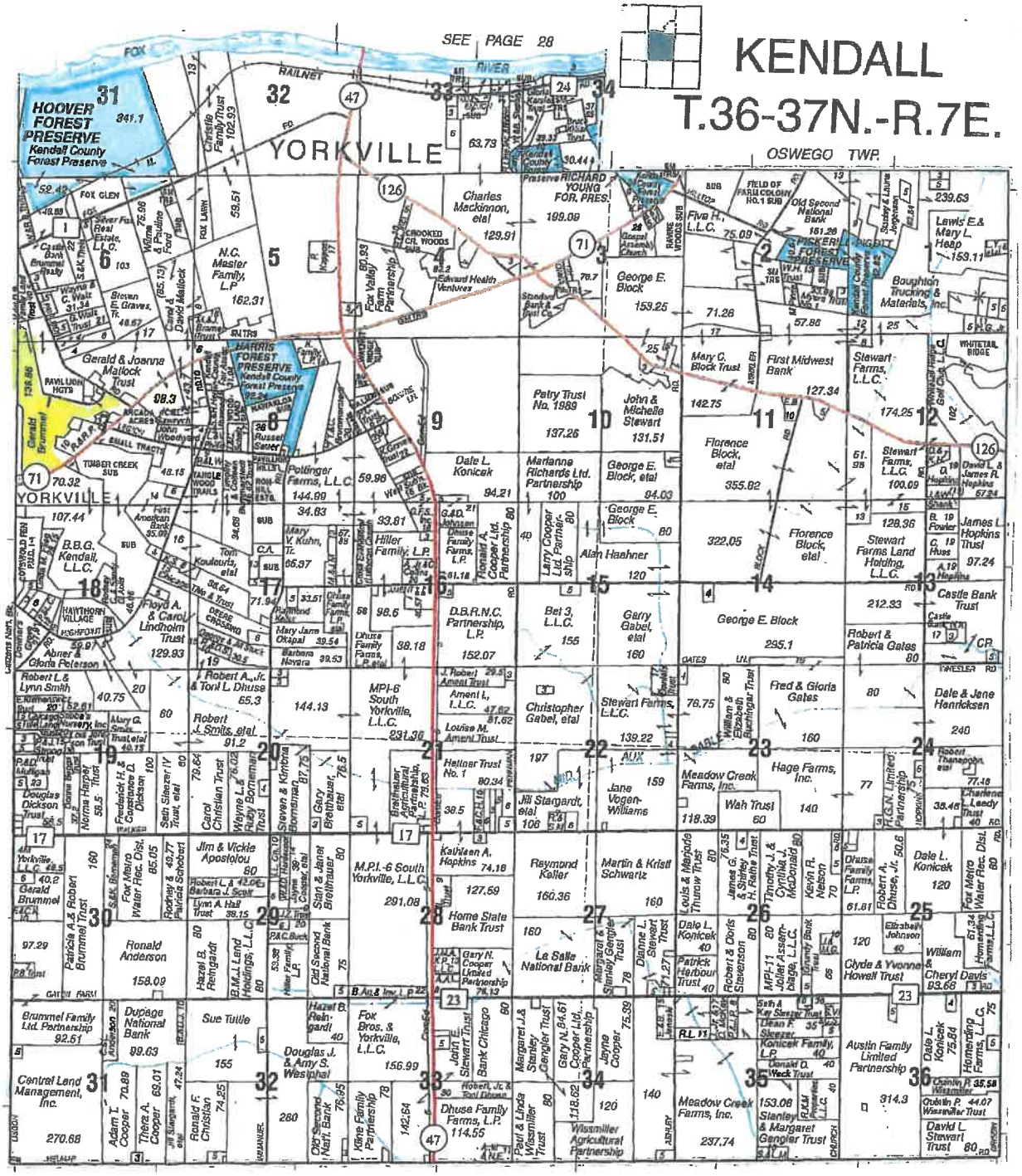
1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Gerry Brummel

KE Gerry Brummel 1

70 acres

Kenadall Township



LRM0415

Gerry Brummel

KE Gerry Brummel 1
70 acres
Kendall County
Kendall Township
Section 7

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	25.6	17.6%
224D3	Strawn clay loam, 10 to 18 percent slopes, severely eroded (0.06 to 0.60 in/hr)	0.4	0.3%
325B	Dresden silt loam, 2 to 4 percent slopes (0.60 to 2.00 in/hr)	12.0	8.2%
330A	Peotone silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	1.7	1.2%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 70
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

Source of biosolids
1 LASMA Lagoon 28
2 Aurora
3 Plainfield
4 Marathon lag 25 and cells 2,3,4
5 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
40 acres 1	8/1/2016	0.1	8.62	8.63	0.8	1.62	15.06	0.1	0.01	0.1	0.38		
40 acres 2	11/1/2016	0.018	0.054	0.97	0.032	0.021	0.186	0	0	0	0	0.009	pci/g
40 acres 3	5/1/2018	0.047	2.78	1.45	0.14	0.06	3.69	0.01	0.005	0.04	0.08		
40 acres 3	12/1/2019	0.041	1.950	1.270	0.150	0.050	2.440	0.01	0.004	0.03	0.05		
40 acres 2	Nov-20	0.024	0.095	1.93	0.089	0.024	0.231	0	0	0	0	0.019	6.25 pci/g
40 acres 1	May-21	0.04	8.92	10.23	0.98	1.59	15.04	0.24	0.01	0.2	0.29		
40 acres 1	Nov-21	0.1	8.56	9.89	0.85	1.68	17.27	0.19	0.01	0.19	0.35		
70 acres 4	May-23	0.06	10.25	14.43	0.88	1.98	17.387	0.06	0.01	0.21	0.27		
70 acres 5	May-23	0	0.12	0.06	0	0	0.14	0	0	0	0		
2	Feb.24	0.002	0.014	0.202	0.007	0.002	0.024	0	0	0	0	0.004	8.5 pci/g
2	March.24	0.012	0.071	1.058	0.037	0.012	0.124	0	0	0	0	0.021	8.5 pci/g
	TOTAL	0.44	41.43	50.12	3.97	7.04	71.59	0.61	0.05	0.77	1.42	0.053	pci/g
	%of LIMIT	4.4	16.6	5.6	4	0.7	14.3	0.6	0.1	9.6	8.8		

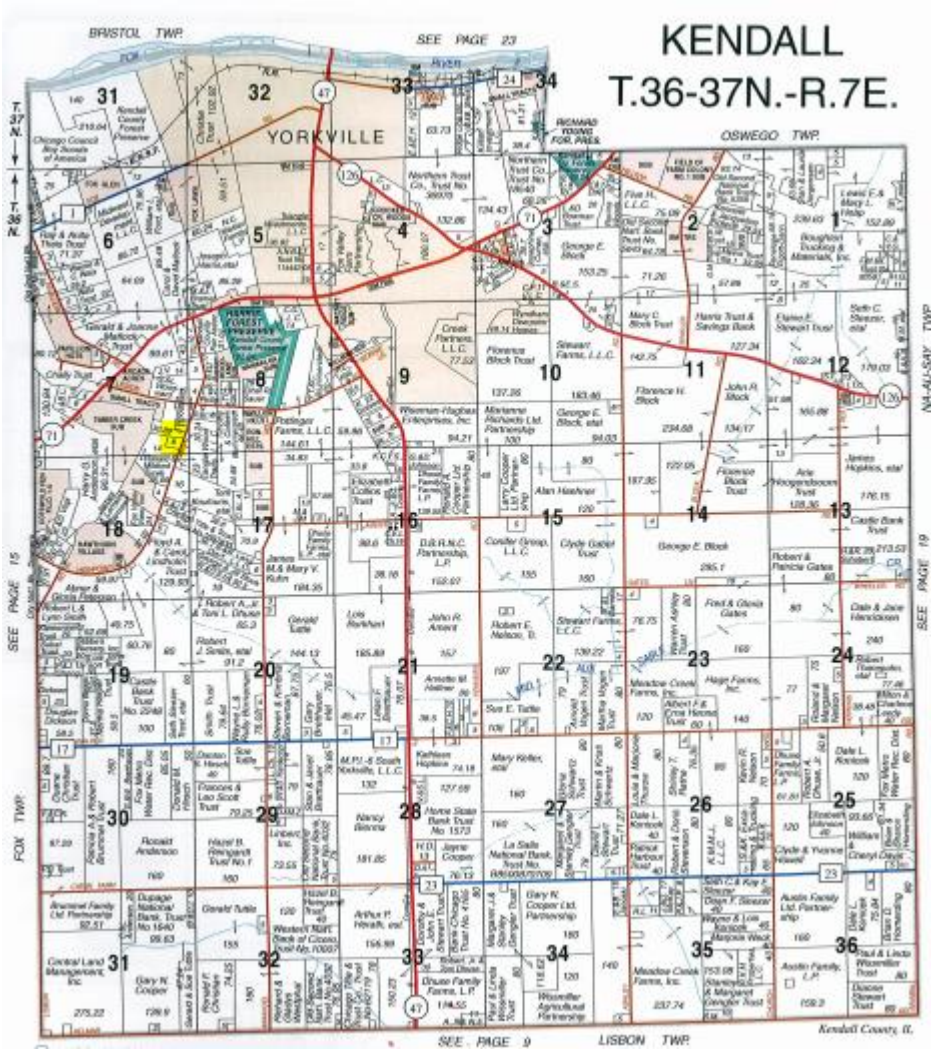
Background Radium	1.665	pci/g
Site Limit	2.665	pci/g
Cumulative Total to Date	1.718	pci/g
% of Total Cumulative Limit	64.46	%

4.7 pci/g

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2 Radium concentration in soil can not exceed this limit
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4 Includes Background and Applied Radiums

Jim Brummel

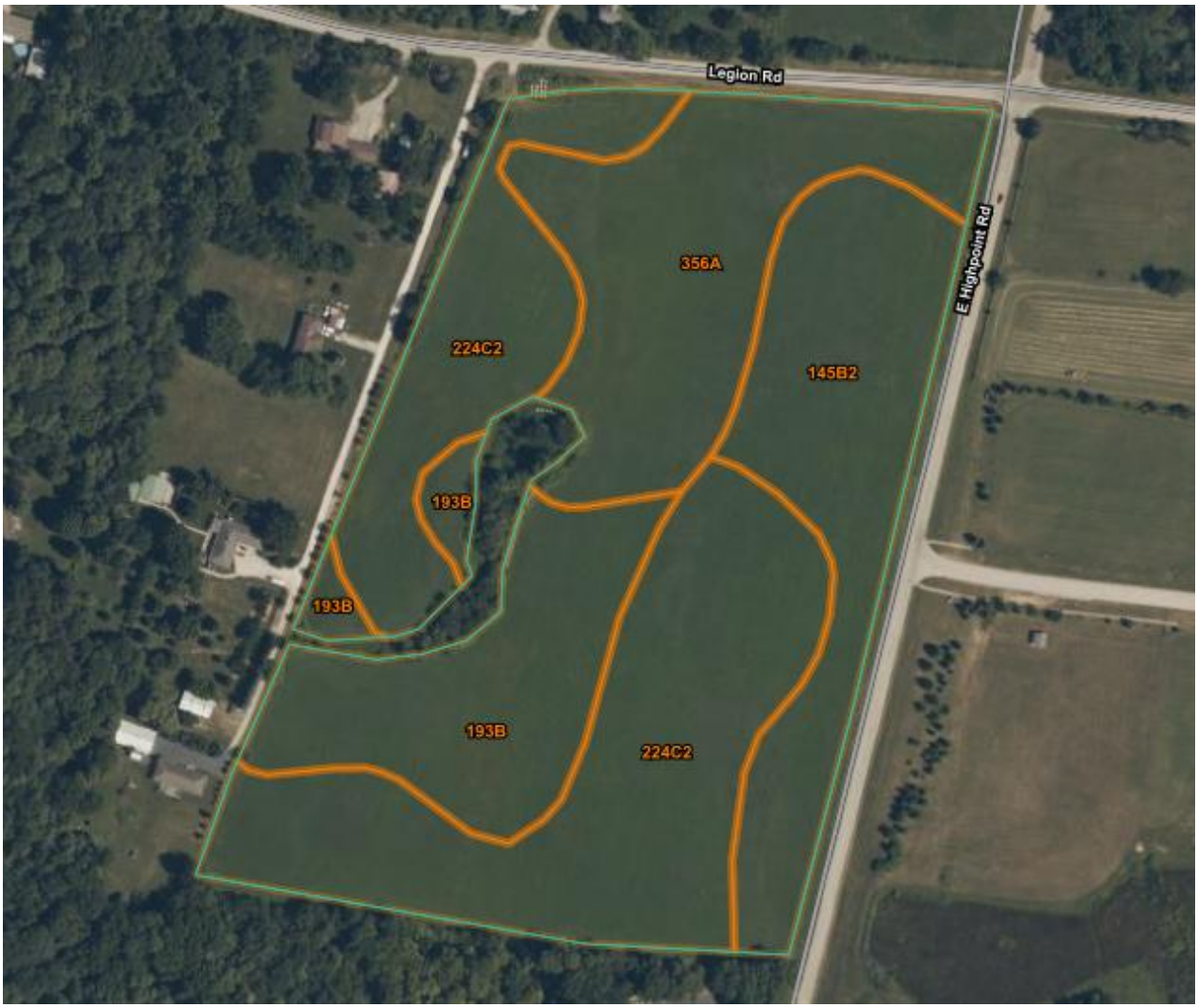
KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7



Jim Brummel

KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	10.6	41.4%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 2
ACREAGE: 25
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Marathon lag 25 cells 2,3,4
4 DuPage

Metal Loadings in Pounds per Acre

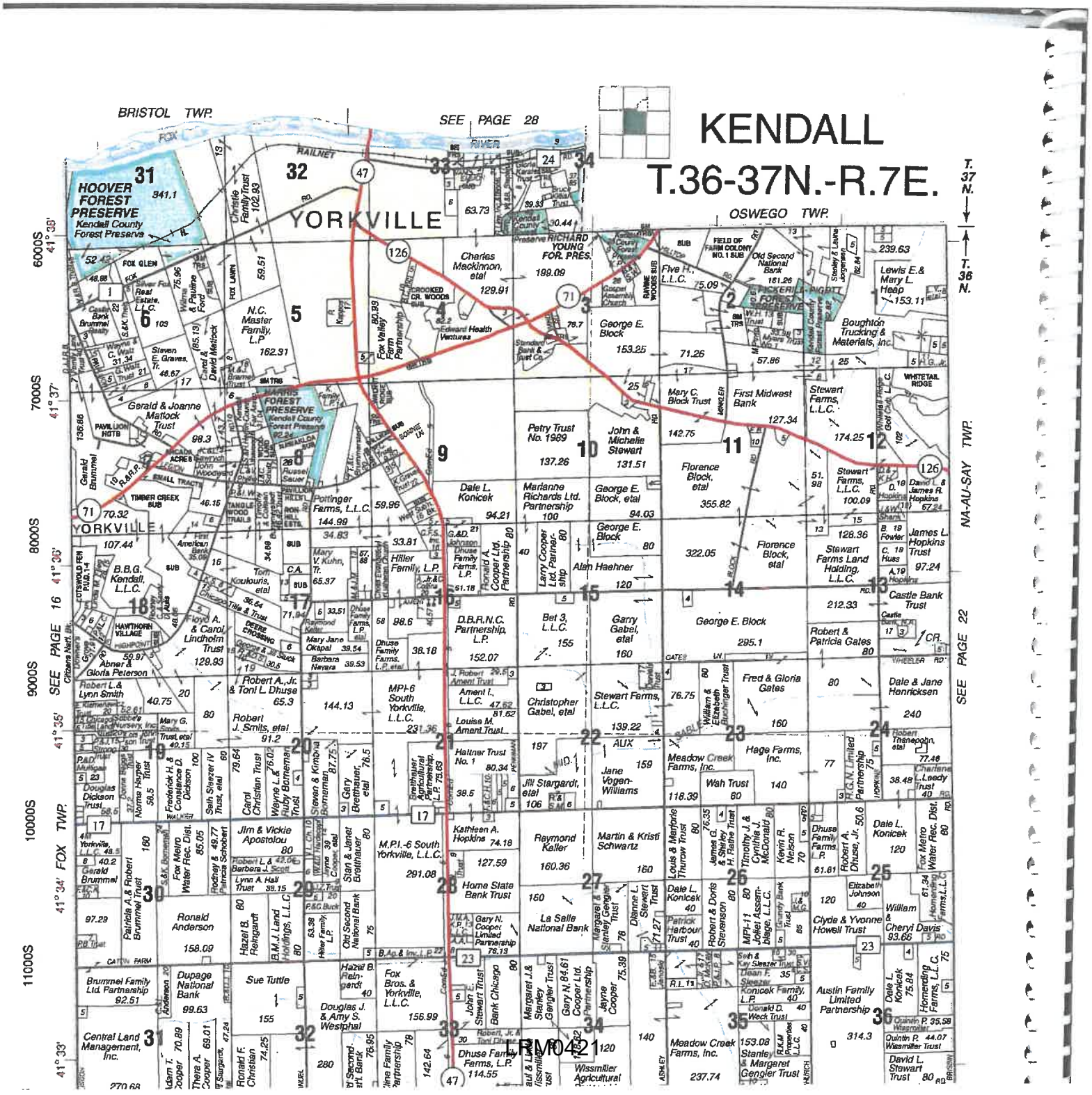
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.011	0.043	0.87	0.04	0.011	0.104	0	0	0	0	0.009				189.35	68.02
2	April 2021	0.03	6.15	7.17	0.69	1.12	10.51	0.19	0	0.14	0.22					891.71	180.13
2	June 2022	0.04	4.46	4.87	0.45	0.8	8.18	0.04	0	0.12	0.17					776.73	151.46
3	May-23	0.06	9.76	13.75	0.84	1.88	16.55	0.06	0.01	0.2	0.26					847.84	250.11
4	May-23	0	0.18	0.09	0.01	0.01	0.21	0	0	0	0					25	3.14
1	March.24	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.016	8.5 pci/g			260.91	93.72
	Cumulative Total	0.15	20.65	27.58	2.06	3.83	35.65	0.29	0.01	0.46	0.65	0.025					
	%of LIMIT	1.5	8.3	3.1	2.1	0.4	7.1	0.3	0	5.8	4						

1	Background Radium	1.410	pci/g
2	Site Limit	2.410	pci/g
3	Cumulative total to Date	1.435	pci/g
4	% of Total Cumulative Limit	59.54	%

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2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Seth Sleezer

Field 6
Acres 38.27
Kendal County
Township
Section 32



Seth Sleezer

Field 6

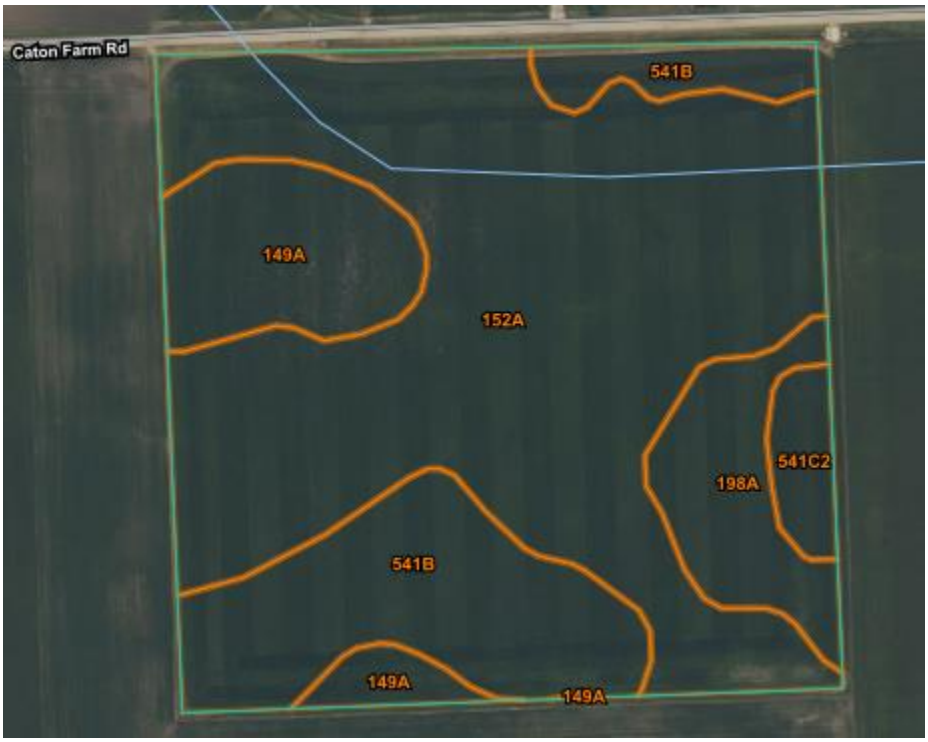
Acres 38.27

Kendal County

Kendall Township

Section 32

149A	Brenton silt loam, 0 to 2 percent slopes	4.3	11.2%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	22.7	59.4%	.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	2.9	7.7%	.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	7.3	19.1%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.0	2.6%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Seth Sleezer 6
ACREAGE: 38.237
COUNTY: Kendall
TOWNSHIP: Bristol Township
SECTION: 32

FARMER: Seth Sleezer
ADDRESS: 7214 Caton Farm Road
Yorkville, IL 60560

Source of biosolids
1 Marathon lagoon 25 cells 2,3,4
2 Lasma Lagoon 28
3 Aurora Lime
4

Metal Loadings in Pounds per Acre

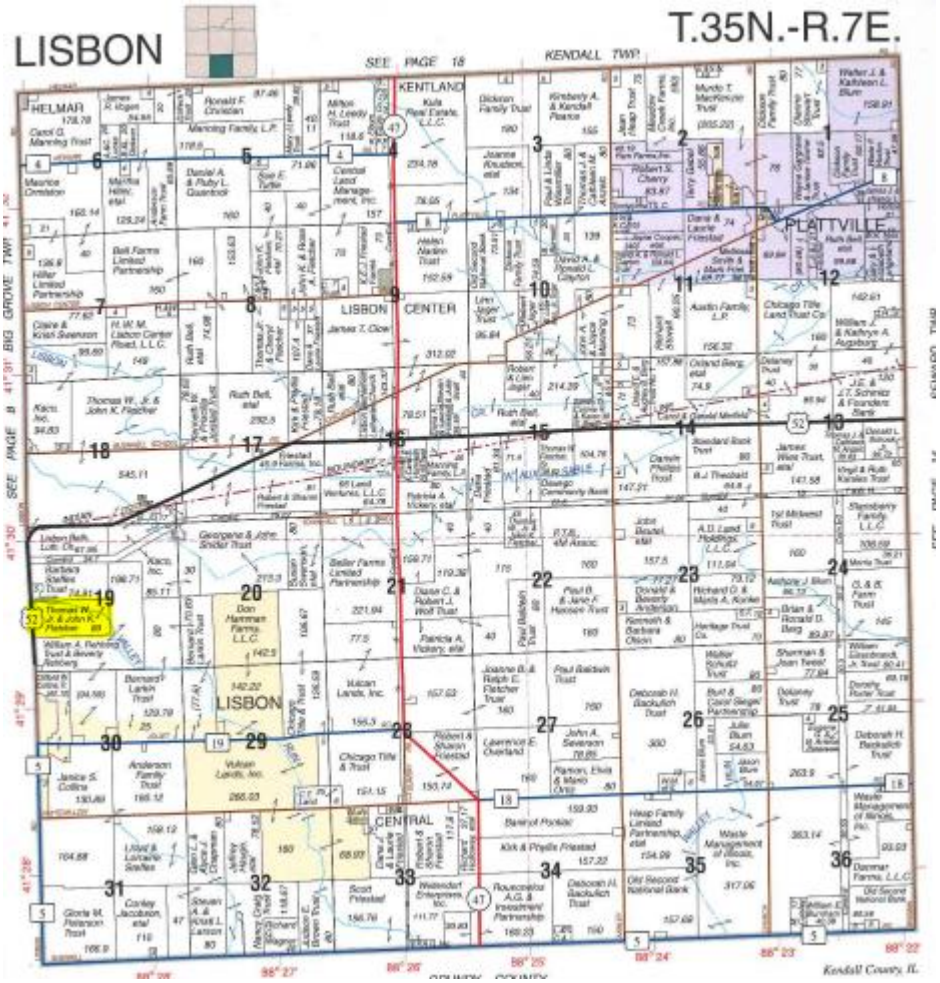
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**May-23**	0.07	10.73	15.12	0.93	2.07	18.21	0.07	0.01	0.22	0.29		
3	**March.24**	0.016	0.095	1.406	0.049	0.016	0.165	0.000	0.000	0.000	0.000	0.028	8.5 pci/g
2	**Apr-24**	0.11	8.01	9.08	0.73	1.42	16.57	0.11	0.01	0.19	0.28		
	TOTAL	0.2	18.84	25.61	1.71	3.51	34.95	0.18	0.02	0.41	0.57		pci/g
	%of LIMIT	2	7.5	2.8	1.7	0.4	7	0.2	0.1	5.1	3.5		

1	Background Radium		pci/g
2	Site Limit		pci/g
3	Cumulative Total to Date		pci/g
4	% of Total Cumulative Limit		%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Swenson

KE Swenson 25
70 acres
Kendall County
Lisbon Township
Section 19



Swenson

KE Swenson 25
70 acres
Kendall County
Lisbon Township
Section 19

59A	Lisbon silt loam, 0 to 2 percent slopes	6.2	8.9%	0.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	6.8	9.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	4.7	6.8%	0.06 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	14.4	20.7%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	25.3	36.4%	0.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	0.0	0.0%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	12.0	17.3%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Sweson 25
ACREAGE: 70
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 19

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

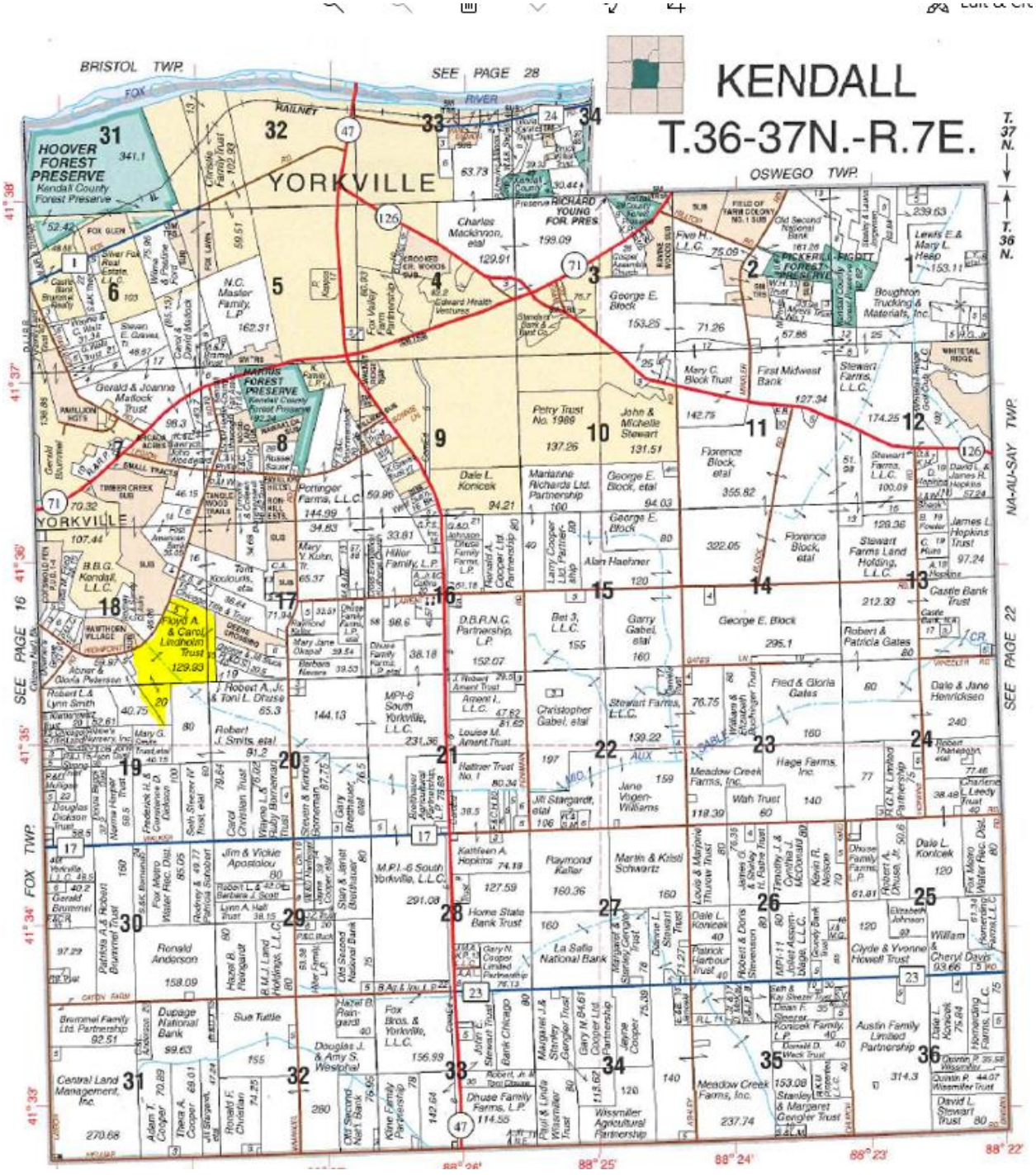
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**Mar-22**	0.01	0.03	0.91	0.03	0.01	0.08	0.00	0.00	0.00	0.00	0.005	
1	**March.24**	0.014	0.082	1.223	0.042	0.014	0.143	0.000	0.000	0.000	0.000	0.024	8.5 pci/g
	TOTAL	0.02	0.12	2.13	0.07	0.02	0.23	0	0	0	0	0.029	pci/g
	%of LIMIT	0.2	0	0.2	0.1	0	0	0	0	0	0		

1	Background Radium	2.160	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.189	pci/g
4	% of Total Cumulative Limit	72.97	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Gerry Brummel

KE Gerry Brummel 9
151 acres
Kendall County
Kendall Township
Section 18,19

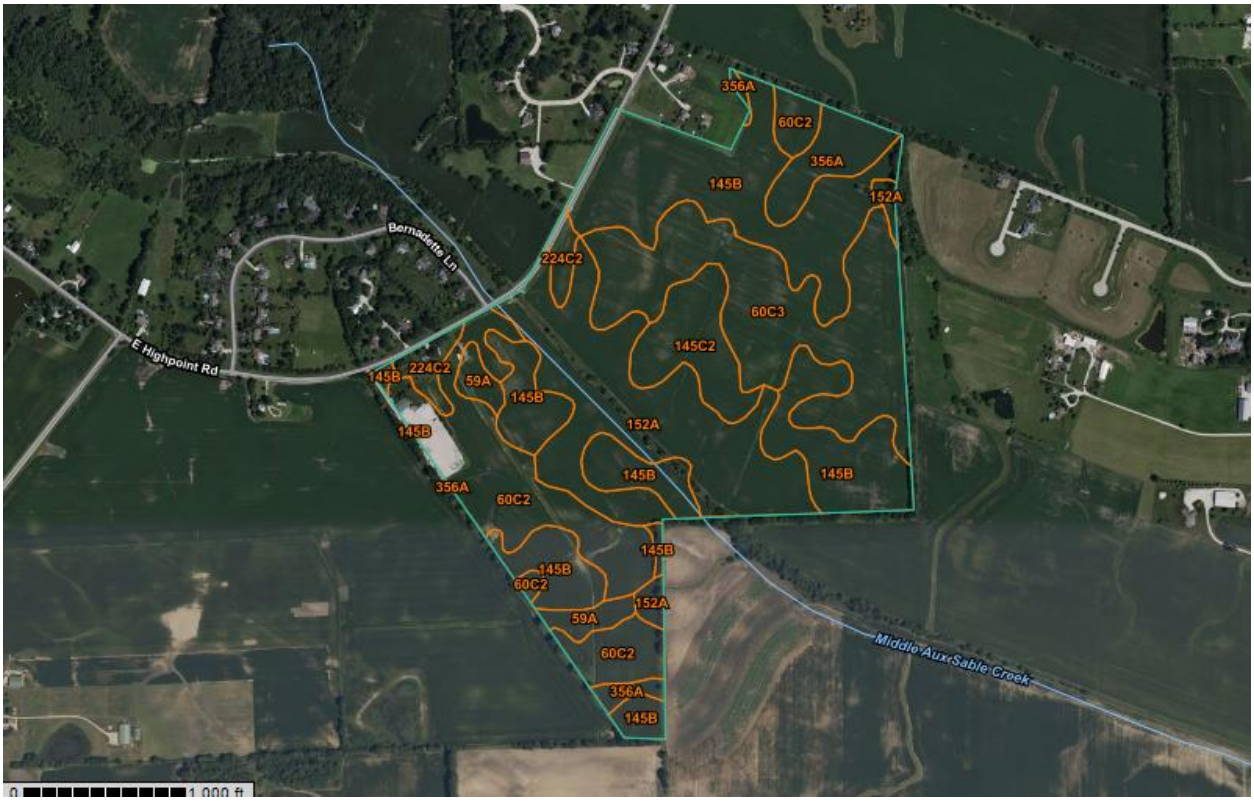


LRM0427

Gerry Brummel KE Gerry Brummel 9

151 acres
Kendall County
Kendall Township
Section 18,19

59A	Lisbon silt loam, 0 to 2 percent slopes	3.7	2.2%		.20 to 0.60 in/hr
145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded	8.9	5.3%		0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%		
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%		
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%		
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%		
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%		
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%		



METAL LOADING RECORD

SITE NUMBER:	9	COUNTY:	Kendall		Source of biosolids
ACREAGE:	151	TOWNSHIP:	Kendall	1	LASMA Lagoon 28
		SECTION:	18 and 19	2	DuPage
FARMER:	Gerry Brummel			3	Aurora Lime
ADDRESS:	13205 Church Road				
	Minooka, IL 60447				
PHONE #:	815-475-4505				

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	5/1/2022	0.01	0.84	0.92	0.09	0.15	1.55	0.01	0	0.02	0.03		
2	5/1/2022	0	0.18	0.12	0.01	0.01	0.24	0	0	0	0		pci/g
3	5/1/2022	0.01	0.047	1.236	0.043	0.01	0.112	0	0	0	0	0.007	3.57 pci/g
2	6/1/2022	0.000	0.100	0.070	0.010	0.000	0.120	0	0	0	0		
1	6/1/2022	0.03	3.97	4.34	0.4	0.71	7.28	0.03	0	0.11	0.15		
3	March.24	0.001	0.008	0.125	0.004	0.001	0.015	0	0	0	0	0.002	8.5 pci/g
	TOTAL	0.05	5.15	6.81	0.56	0.88	9.32	0.04	0	0.13	0.18	0.009	pci/g
	%of LIMIT	0.5	2.1	0.8	0.6	0.1	1.9	0	0	1.6	1.1		

Background Radium	2.520	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.529	pci/g
% of Total Cumulative Limit	84.30	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

LRM0430

KE J Brummel 3

3/15/2024
9/23/2023

Kendall County Health Deparment
811 John St,

Yorkville, IL 60560

Kevin Kunkel Highway Commissioner
14492 Lisbon Road
Newark, IL 60545

BRUMMEL, GERALD LIV TR
10734 LISBON RD
YORKVILLE, IL 60560

4M YORKVILLE LLC,
1649 MONTGOMERY STE 1
AURORA, IL 60504

PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST
1308 SW 96TH ST
GAINESVILLE, FL 32607

BRUMMEL, ROBERT TR & PATRICIA TR
10736 LISBON RD
YORKVILLE, IL 60560

HARPER THOMAS & KING HEATHER HARPER &, MO STEPHANY HARPER
2316 NW PINNACLE DR
PORTLAND, OR 97229

DICKSON, FREDERICK H & CONSTANCE D
29 RIVERWOOD CT
OSWEGO, IL 60543

KALA, FREDERICK N & CHRISTINA
10474 LISBON RD
YORKVILLE, IL 60560

BRUMMEL FAMILY LTD PARTNERSHIP,
10734 LISBON RD
YORKVILLE, IL 60560

BORNEMAN, STEVEN L & KIMBRIA LYNN
9618 IMMANUEL RD
YORKVILLE, IL 60560

PUNKE, JAMES C & CONSTANCE K
10525 LISBON RD
YORKVILLE, IL 60560

CHRISTIAN, WESLEY K
10609 LISBON RD
YORKVILLE, IL 60560

ANDERSON, RONALD
9725 HELMAR RD
NEWARK, IL 60541

BORNEMAN, CLYDE & ELEANOR
10327 LISBON RD
YORKVILLE, IL 60560

GOMOLL, JOSEPH & JENNIFER
10151 LISBON RD
YORKVILLE, IL 60560

PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST
1308 SW 96TH ST
GAINESVILLE, FL 32607

LRM0431

KE J. Brummel 1
05-07-326-003

BRUMMEL, GERALD
13205 CHURCH RD
MINOOKA, IL 60447

Kendal County Health Dept.
811 John St,
Yorkville, IL 60560

Sent 3/15/2024

Kendall Township
9925 Route 47
Yorkville, IL 60560

BORNEMAN, NEIL L & BEVERLY L & CRAIG L
12403 BUDD RD
YORKVILLE, IL 60560

LEEDY, JAMES L & BARBARA R
11663 STATE RTE 71
YORKVILLE, IL 60560

BBG KENDALL LLC, % BRIDGEVIEW BANK GROUP
4753 N BROADWAY
CHICAGO, IL 60640

PIERCE, ESTHER J
222 A HILLCREST AVE
YORKVILLE, IL 60560

SAAR, MICHAEL O & DAYLE E
14 TIMBERCREEK DR
YORKVILLE, IL 60560

LOPEZ, CATARINO &, GUTIERREZ, SERGIO
1011 GREENVIEW DR
AURORA, IL 60505

BRONGIEL, GERALD & CONNIE
9120 RT 34
YORKVILLE, IL 60560

BRONGIEL, GERALD & CONNIE
9120 RT 34
YORKVILLE, IL 60560

KE Jim Brummel 2

3/15/2023
9/15/2023
3/15/2024

JOHN WOODWARD
7595 E HIGHPOINT RD
YORKVILLE, IL 60560

ROBERT G & SANDRA E RUTKAS
11130 B LEGION RD
YORKVILLE, IL 60560

ROBERT & ELIZABETH JACKSON
11150 LEGION RD
YORKVILLE, IL 60560

WALTER A & PAMELA RYBACK
7927 E HIGHPOINT RD
YORKVILLE, IL 60560

JEFFREY L & KAY L HANSEN
11130 C LEGION RD
YORKVILLE, IL 60560

JOHN WOODWARD
7595 E HIGHPOINT RD
YORKVILLE, IL 60560

FIRST AMERICAN BANK
208 COVINGTON CT
OAK BROOK, IL 60523

DUANE E & BETTY COPPES
11130 A LEGION RD
YORKVILLE, IL 60560

KE Sleezer Seth 6 **05-32-200-001**		9/15/2021 3/15/2022 3/15/2024 9/15/2023
SETH C VI & CONNIE K SLEEZER 7214 CATON FARM RD YORKVILLE, IL, 60560	ATTN: RICK FOX FOX BROTHERS/YORKVILLE LLC 818 DIAMSHOREWOOD, IL, 60404OND HEAD EAST	BIERMA AGRICULTURAL & INVESTMENT LP P O BOX 711689 SANTEE, CA, 920721689
VIRGIL N DEC LIV TR & KARALES RUTH KARALES 11350 IMMANUEL RD YORKVILLE, IL, 60560	PR BRENDA CHAVEZ 10037 CATON FARM RD YORKVILLE, IL, 60560	FIRST STATE BANK % HOMERDING SCHINDEL 11002 CATON FARM RD MINOOKA, IL, 60447
	HILLER FAMILY LTD PARTNERSHIP 11408 NEWARK RD NEWARK, IL, 60541	

KE Swenson 25

08-19-300-005

3/1/2022
3/15/3023
9/15/2023
3/15/2024

DANA & LAURIE FRIESTAD
9218 WHITE WILLOW RD
MORRIS, IL, 60450

RAUL A GONZALEZ
15390 LISBON RD
NEWARK, IL, 60541

BARBARA A IRREV TRUST STEFFES
100 N SEQUOIA DR
HORSESHOE BEND, AR, 72512

Kendall County Health Department
811 W. John Street
Yorkville, IL 60560

DENNIS L & KAREN J THOMPSON
271 CYPRESS LAKE DR
GULF SHORES, AL, 36542

REHBERG, BEVERLY REHBERG,
WILLIAM A RESID TR &
225 N CANAL ST
NEWARK, IL, 60541

Kevin Kunkel
Lisbon Highway Commissioner
14492 Lisbon Rd
Newark, IL 60545

JAMES B & CANDY L OLSON
15767 LISBON RD
NEWARK, IL, 60541

KE J. Brummel 9 05-18-400-010 05-19-200-003 05-18-400-006	BRUMMEL, GERALD 13205 CHURCH RD MINOOKA, IL 60447	**Kendal County Health Dept.** **Kendall Township**
05-18-400-013 05-17-300-020 05-18-400-012 05-17-300-019		
05-17-300-020	RODNEY C & SANDY D AULIS 906 STONY CREEK LN YORKVILLE, IL, 60560	HAWTHORNE VILLAGE HOMEOWNERS 2029 BERNADETTE LN YORKVILLE, IL, 60560
ROGER & JO ANN GILBERT 8730 E HIGHPOINT RD YORKVILLE, IL, 60560	RICHARD S & DIANE K SPOULA 2164 BERNADETTE LN YORKVILLE, IL, 60560	CHARLES R KELLER TRUST 8751 E HIGHPOINT RD YORKVILLE, IL, 60560
ABNER & GLORIA PETERSON 33 WYCHWOOD LN SOUTH BARRINGTON, IL, 60010	FLOYD A LV TR & LINDHOLM CAROL JEAN LV TR LINDHOLM 54541 HUNTERS CT ELKHART, IN, 46514	ROBERT J & PAMELA & SMITS JERRALD J ETAL SMITS 8848 STARK DR BURR RIDGE, IL, 60527
GEORGE M & JILL S STUCK 8945 B IMMANUEL RD YORKVILLE, IL, 60560	KEVIN & RACHEL HANSEN 8945 A IMMANUEL RD YORKVILLE, IL, 60560	ROBERT A JR & TONI LYNN DHUSE 9095 IMMANUEL RD YORKVILLE, IL, 60560
B & B LAND DEVELOPMENT LLC 664 WHITE OAK LN YORKVILLE, IL, 60560	CHICAGO TITLE & TRUST PO BOX 488 YORKVILLE, IL, 60560	Sent 3.15.24

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 10/17/23

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd

4.) Phone Number of User: 630-675-7589

5.) Location Where Sludge is to be Used: Field 3, SE ¼ of Section 31, Kendall Township KE Jim Brummel 3

6.) Size of Area Where Lime Residuals are to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is:

15.) Limitations from Site Characteristics: None Observed, Small field entrance, broken tile in NE corner

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 126.8 wet tons

Years Applied 2021

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

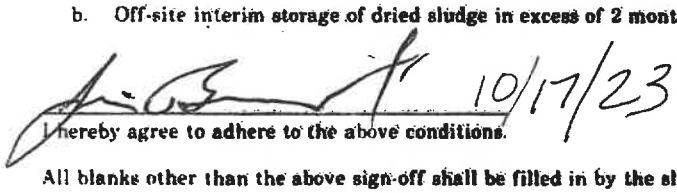
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.



10/17/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

gbrummel@att.net

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 1

6.) Size of Area Where Lime Residuals are to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 850 wet tons

Years Applied 2020

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 1/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 10/17/23

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: KE Jim Brummel 2

6.) Size of Area Where Lime is to be Used: 25 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 189.35 wet tons

Years Applied 2020

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

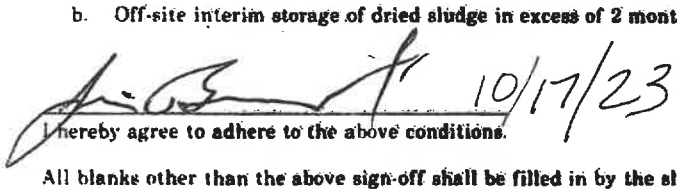
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.



10/17/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

gbrummel@att.net

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: February 2, 2024

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 6

6.) Size of Area Where Lime is to be Used: 38.27 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 318.24 wet tons

Years Applied 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice of snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Seth Sleppy II 2-2-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0444

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2023

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 25

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 498.78 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ____ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swenson 8/15/23

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 9 Kendall County, Kendall Township

6.) Size of Area Where Lime is to be Used: 151 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorporation

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1500 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ____ lbs. per dry ton
Zinc (Zn) ___ lbs per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 1/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

May 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for April 2024. This report includes all land application work done by Stewart Spreading for April 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: April 2024

Billie M Marks

Name	Date	Telephone
	5/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/21/23			Preparation Date: 07/21/23		
Analyzed By: SLO			Prepped By: SLO		
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23			Preparation Date: 07/20/23		
Analyzed By: KJM			Prepped By: KJM		
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

LRM0451

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

LRM0452

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Apr-24**

Biosolids Field Record

KE Dana Friestad 14

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/25/2024	4/25/2024	City of Aurora - Lime	302.52	30.53	92.36
4/26/2024	4/26/2024	City of Aurora - Lime	654.35	43.29	283.27
Total			956.87		375.63

Biosolids Field Record

KE Dana Friestad 15

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/25/2024	4/25/2024	City of Aurora - Lime	489.2	30.53	149.35
Total			489.20		149.35

Biosolids Field Record

KE Dana Friestad 16

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/24/2024	4/24/2024	City of Aurora - Lime	665.16	29.44	195.82
4/25/2024	4/25/2024	City of Aurora - Lime	108.9	30.53	33.25
Total			774.06		229.07

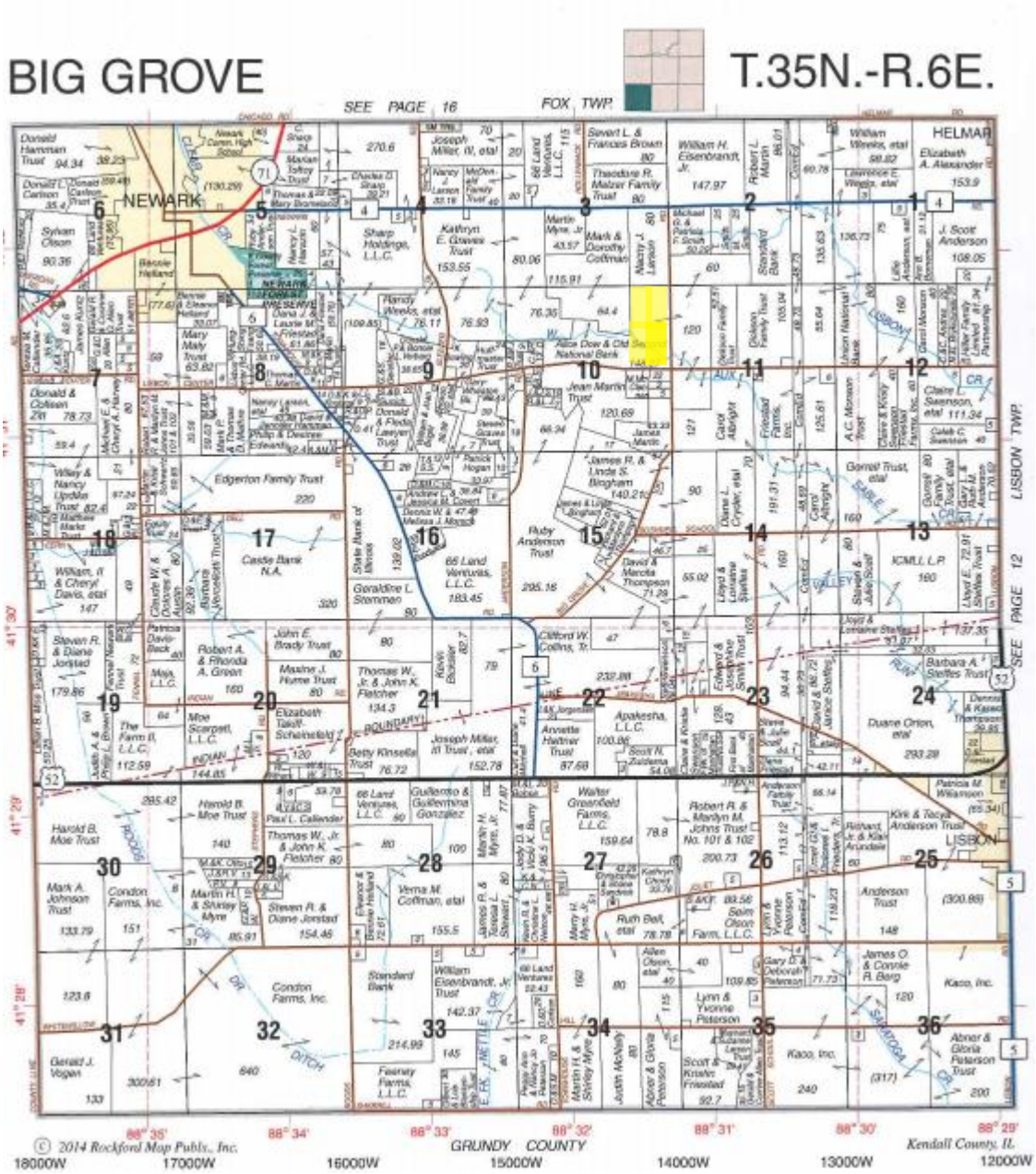
Biosolids Field Record

KE Dana Friestad 17

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/24/2024	4/24/2024	City of Aurora - Lime	433.97	29.44	127.76
Total			433.97		127.76

Dana Friested

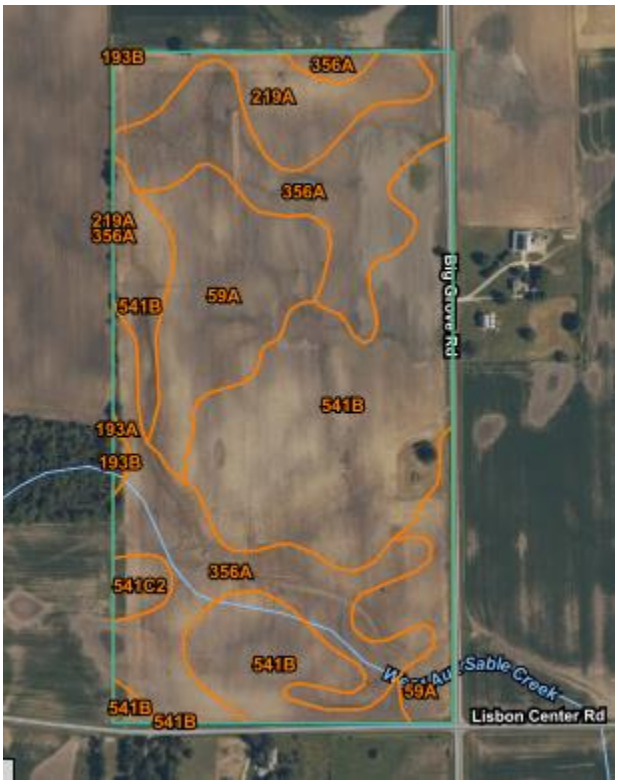
KE Dana Friested 14
76 acres
Kendall County
Big Grove Township
Section 10



Dana Friested

KE Dana Friested 14
76 acres
Kendall County
Big Grove Township
Section 10

59A	Lisbon silt loam, 0 to 2 percent slopes	15.0	18.6%	.20 to 0.60 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.0	0.1%	.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	0.3	0.4%	.06 to 0.60 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		6.4	7.9% .60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes		26.1	32.3% .20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes		31.7	39.3% .06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded		1.1	1.4%.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 14
ACREAGE: 76
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 10

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

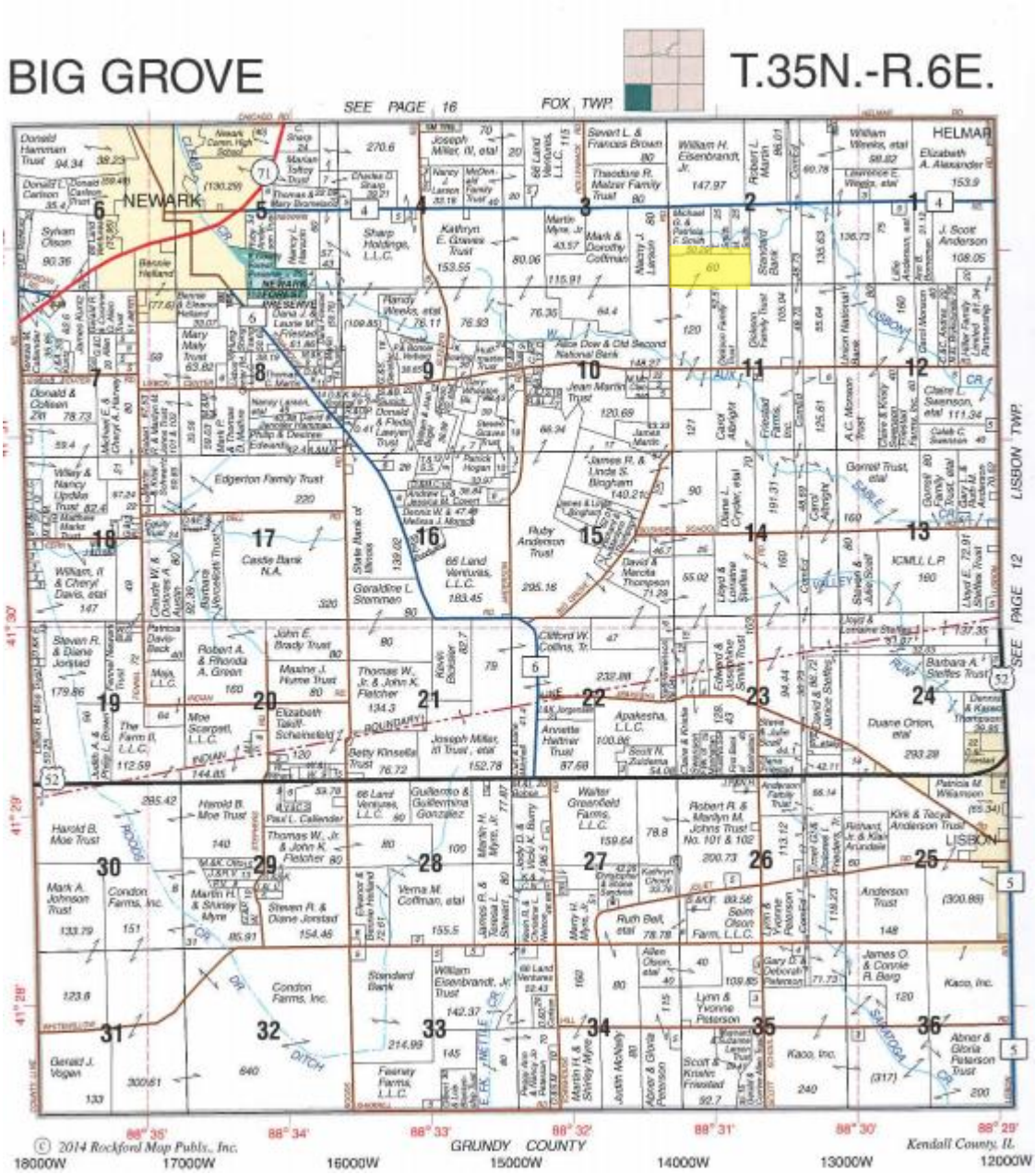
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.08	5.74	6.51	0.52	1.02	11.88	0.08	0.00	0.13	0.20					2479.65	515.77
2	April.24	0.012	0.073	1.078	0.037	0.012	0.126	0.000	0.000	0.000	0.000	0.0210	8.5 pci/g			956.87	375.63
TOTAL		0.09	5.81	7.59	0.56	1.03	12.01	0.08	0	0.13	0.2	0.021	pci/g				
%of LIMIT		0.9	2.3	0.8	0.6	0.1	2.4	0.1	0	1.6	1.2						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.681	pci/g
4	% of Total Cumulative Limit	89.37	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dana Friested

KE Dana Friested 15
58 acres
Kendall County
Big Grove Township
Section 2



Dana Friested

KE Dana Friested 15
58 acres
Kendall County
Big Grove Township
Section 2

59A	Lisbon silt loam, 0 to 2 percent slopes	11.1	23.5%	.20 to 0.60 in/hr
60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.7	3.7%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	2.0	4.3%	.06 to 0.60 in/hr
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	2.8	5.9%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	9.8	20.7%	.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	1.5	3.2%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	12.2	25.7%	.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.0	0.0%	.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	6.2	13.2%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 15
ACREAGE: 58
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 2

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

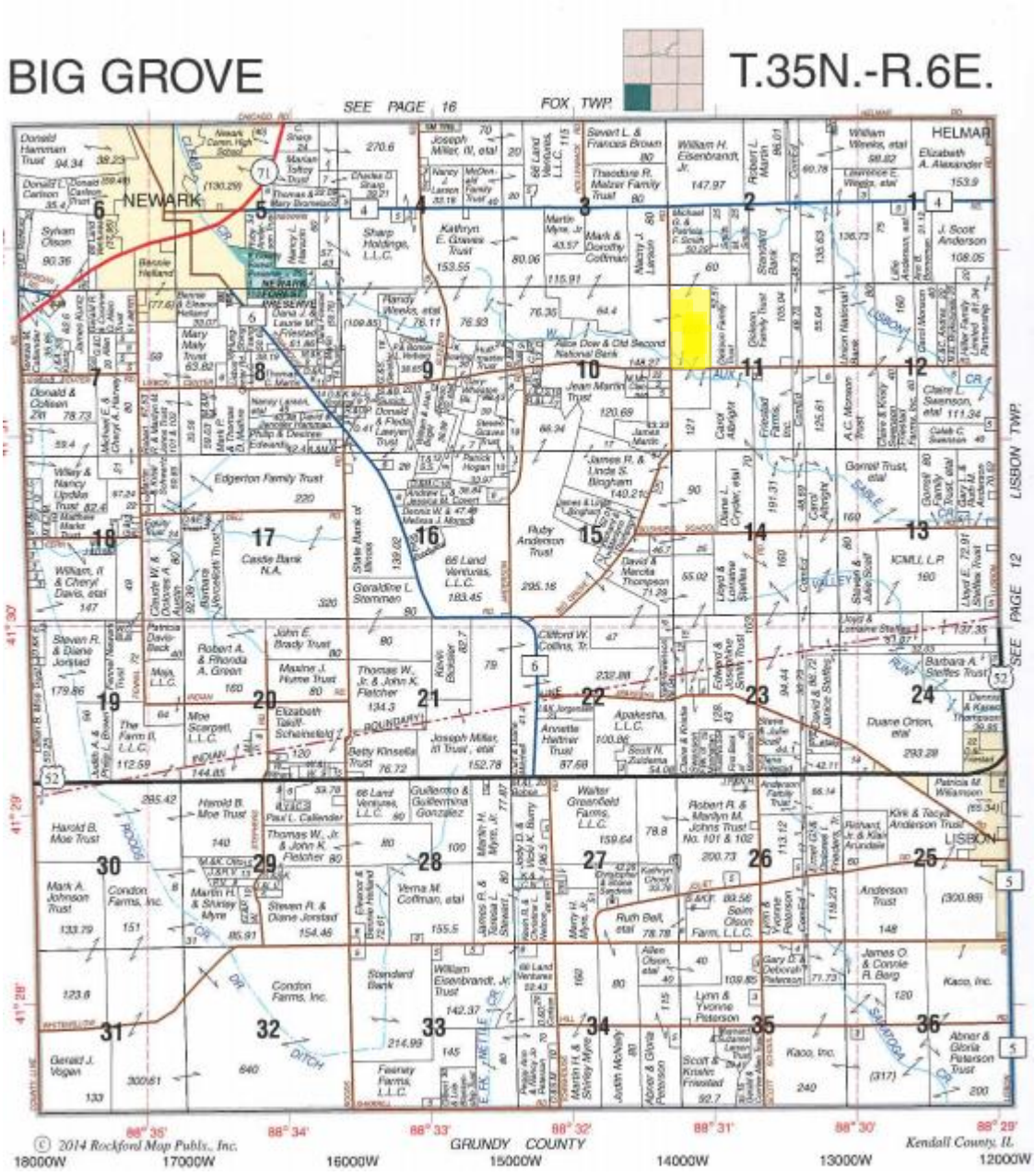
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.35	7.2	0.58	1.13	13.13	0.09	0.00	0.15	0.22					1846.46	384.06
2	April.24	0.007	0.038	0.572	0.020	0.007	0.067	0.000	0.000	0.000	0.000	0.0110	8.5 pci/g			489.2	149.35
TOTAL		0.1	6.39	7.77	0.6	1.14	13.2	0.09	0	0.15	0.22	0.011	pci/g				
%of LIMIT		1	2.6	0.9	0.6	0.1	2.6	0.1	0	1.9	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.671	pci/g
4	% of Total Cumulative Limit	89.03	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dana Friested

KE Dana Friested 16
70 acres
Kendall County
Big Grove Township
Section 11



Dana Friested

KE Dana Friested 16
70 acres
Kendall County
Big Grove Township
Section 11

59A	Lisbon silt loam, 0 to 2 percent slopes	15.0	18.6%	.20 to 0.60 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.0	0.1%	.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	0.3	0.4%	.06 to 0.60 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		6.4	7.9% .60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes		26.1	32.3% .20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes		31.7	39.3% .06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded		1.1	1.4%.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 16
ACREAGE: 70
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 11

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

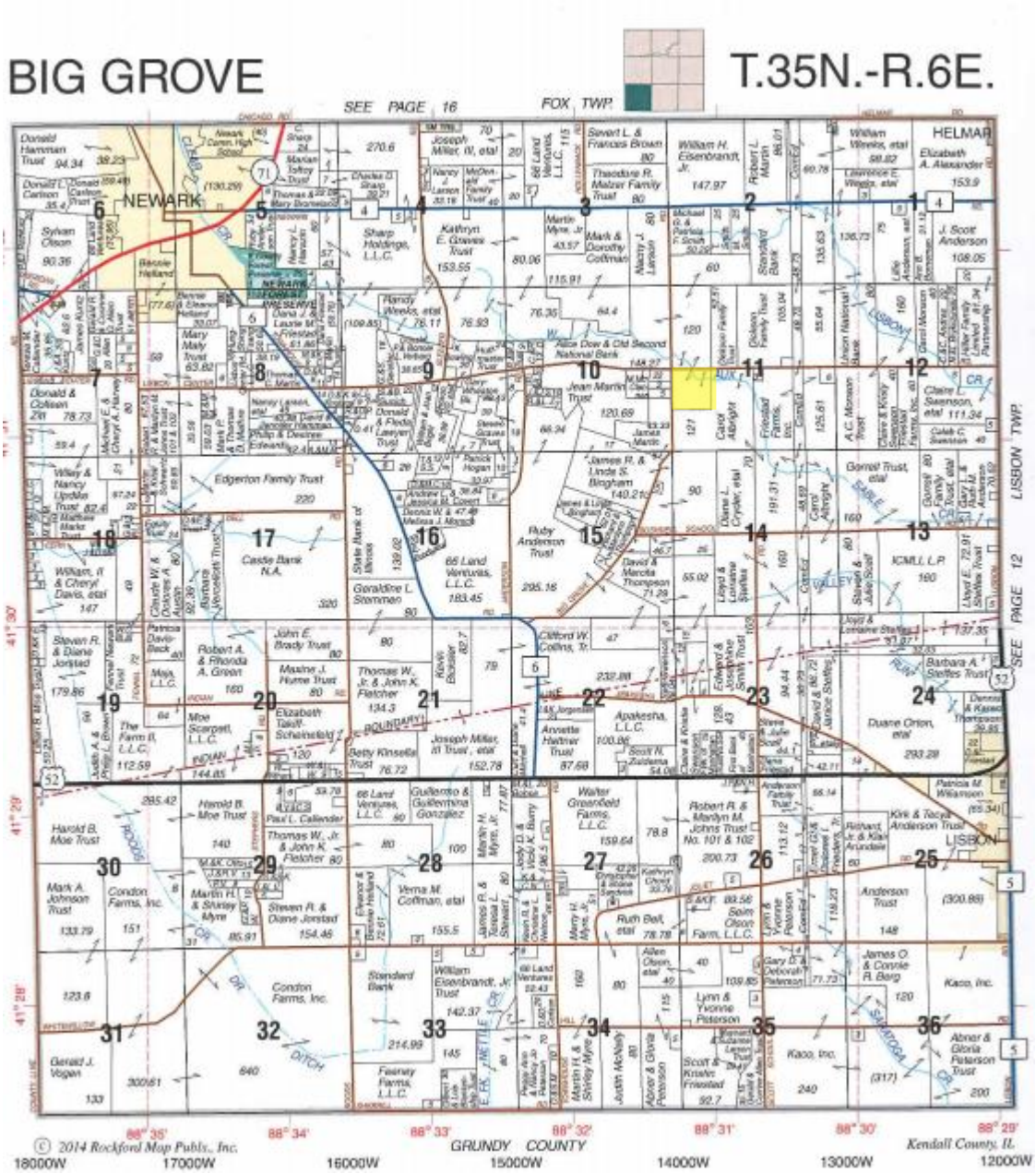
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.2	7.02	0.56	1.1	12.81	0.09	0.00	0.14	0.22					2487.22	517.34
2	April.24	0.008	0.049	0.726	0.025	0.008	0.085	0.000	0.000	0.000	0.000	0.0140	8.5 pci/g			774.06	229.07
TOTAL		0.1	6.25	7.75	0.59	1.11	12.9	0.09	0	0.14	0.22	0.014	pci/g				
%of LIMIT		1	2.5	0.9	0.6	0.1	2.6	0.1	0	1.8	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.674	pci/g
4	% of Total Cumulative Limit	89.13	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dana Friested

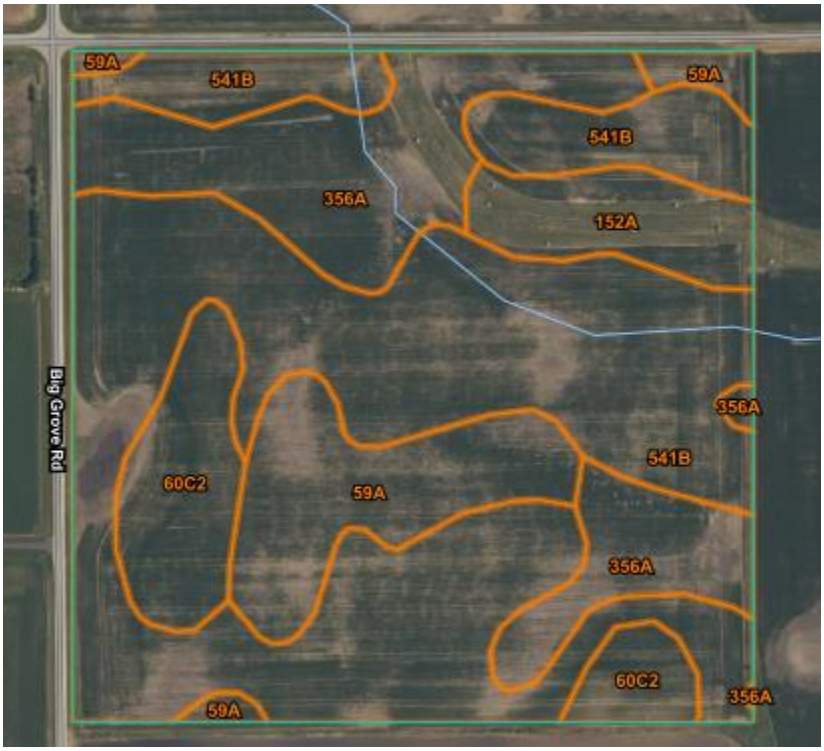
KE Dana Friested 17
35 acres
Kendall County
Big Grove Township
Section 11



Dana Friested

KE Dana Friested 17
35 acres
Kendall County
Big Grove Township
Section 11

59A	Lisbon silt loam, 0 to 2 percent slopes	4.4	11.5%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	3.4	8.7%	.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	2.1	5.5%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	7.4	19.1%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	21.2	55.1%	.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: 17
ACREAGE: 35
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 11

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.2	7.02	0.56	1.1	12.81	0.09	0.00	0.14	0.22					1230.79	256.00
2	April.24	0.009	0.055	0.814	0.028	0.009	0.095	0.000	0.000	0.000	0.000	0.0160				433.97	127.76
TOTAL		0.1	6.26	7.83	0.59	1.11	12.91	0.09	0	0.14	0.22	0.016	pci/g				
%of LIMIT		1	2.5	0.9	0.6	0.1	2.6	0.1	0	1.8	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.676	pci/g
4	% of Total Cumulative Limit	89.20	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0467

KE Dana Friested 13, 14 PIN 07-10-200-002		3/15/2024 6/29/2024
KE Dana Friestad 15 PIN 07-02-300-002		
KE Dana Friestad 16,17 PIN 07-11-100-001		
DIKE, CHARLES A & RUTHANN 14865 LISBON CENTER RD NEWARK, IL, 60541		MCCLENNAN, MARNI L 14170 LISBON CENTER RD NEWARK, IL, 60541
MCCLENNAN, MARNI L 14170 LISBON CENTER RD NEWARK, IL, 60541	MARTIN, JEAN TRUST % DANIELLE I CIECHANSKI 2800 SIERRA AVE PLAINFIELD, IL, 60586	SMITH, RICHARD & BARBARA 14860 LISBON CENTER RD NEWARK, IL, 60541
DOW, ALICE & OLD SECOND NATIONAL BANK TR 33536400 37 S RIVER ST AURORA, IL, 60506	GRAVES, STEVEN E REV TRUST % STEVEN E & KATHRYN E GRAVES TTEES PO BOX 229 MILLINGTON, IL, 60537	COFFMAN, DOROTHY 1815 LITTLE ROCK RD PLANO, IL, 60545
SMITH, MICHAEL G & PATRICIA F 12750 BIG GROVE RD NEWARK, IL, 60541	STANDARD BANK, TRUST: 19133 13360 NEWARK RD NEWARK, IL, 60541	DOW, ALICE & OLD SECOND NATIONAL BANK TR 33536400 37 S RIVER ST AURORA, IL, 60506
SMITH, TYLER LIV TRUST 1115 W LUNT AVE UNIT 1A CHICAGO, IL, 60626	ALBRIGHT, CAROL 8331 E 3RD ST TUCSON, AZ, 85711	GIBLER KELLER FAMILY TRUST % SCOTT L GIBBLER & ELLEN M KELLER 5844 BURR OAK AVE BERKLY, IL, 60163
SMITH, MICHAEL H 12750 BIG GROVE RD NEWARK, IL, 60541	MARTIN, JAMES 2024 BELL RD MINOOKA, IL, 60447	
LARSON, NANCY J TRUST: FAM TR 453 POPLAR DR YORKVILLE, IL, 60560	DICKSON FARMS LLC % KIMBERLY DICKSON POLIZO TRUSTEE 426 SILVER LAKE DR CHICO, CA, 95973	SWENSON, CALEB C 13691 BIG GROVE RD NEWARK, IL, 60541-9111

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 14

6.) Size of Area Where Lime is to be Used: 76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 15

6.) Size of Area Where Lime is to be Used: 58 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 16

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 17

6.) Size of Area Where Lime is to be Used: 35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Dana J. Meistad 3-14-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

July 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for June 2024. This report includes all land application work done by Stewart Spreading for June 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: June 2024

Billie M Marks

Name	Date	Telephone
	7/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **June 2024**

Biosolids Field Record

Site: KA Hamman 19

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/10/2024	6/10/2024	City of Aurora - Lime	1163.37	34.48	401.13
6/11/2024	6/11/2024	City of Aurora - Lime	424.81	39.75	168.86
6/11/2024	6/11/2024	City of Aurora - Lime	65.66	40.93	26.87
Total			1653.84		596.87

Biosolids Field Record

Site: CO Plechkahm 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/11/2024	6/11/2024	City of Aurora - Lime	571.55	40.93	233.94
Total			571.55		233.94

Biosolids Field Record

Site: LS Kinsella 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/10/2024	6/10/2024	City of Aurora - Lime	531.24	34.48	183.17
Total			531.24		183.17

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
TCLP Herbicides Method 1311	**Method: 8321B**				
Analysis Date: 07/21/23					
Analyzed By: STAT					
2,4-D		< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)		< 0.5	0.5	mg/L	S
TCLP Metals Method 1311	**Method: 6010C**	**Preparation Method 3010A**			
Analysis Date: 07/21/23		Preparation Date: 07/21/23			
Analyzed By: SLO		Prepped By: SLO			
Arsenic		< 0.010	0.010	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		< 0.005	0.005	mg/L	
Chromium		< 0.005	0.005	mg/L	
Lead		< 0.005	0.005	mg/L	
Selenium		< 0.010	0.010	mg/L	
Silver		< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A	**Method: 7470A**				
Analysis Date: 07/21/23					
Analyzed By: TRG					
Mercury		< 0.0005	0.0005	mg/L	
TCLP Extraction	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
TCLP Extraction		Complete			
TCLP ZHE Preparation	**Method: 1311**				
Analysis Date: 07/19/23					
Analyzed By: TRG					
ZHE Volatiles Extraction		Complete			
Total Metals	**Method: 6010C**	**Preparation Method 3050B**			
Analysis Date: 07/24/23		Preparation Date: 07/20/23			
Analyzed By: KJM		Prepped By: KJM			
Aluminum		708	10.0	mg/kg	
Arsenic		< 2.5	1.0	mg/kg	W
Barium		174	0.5	mg/kg	
Cadmium		< 1.25	0.5	mg/kg	W
Calcium		343,000	50	mg/kg	
Chromium		5.8	0.5	mg/kg	
Cobalt		< 1.25	0.5	mg/kg	W

LRM0477

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/24/23		Preparation Date: 07/20/23		
Analyzed By: KJM		Prepped By: KJM		
Copper	7.4	0.5	mg/kg	
Iron	6,580	5.0	mg/kg	
Magnesium	28,500	50	mg/kg	
Lead	< 1.25	0.5	mg/kg	W
Manganese	110	0.5	mg/kg	
Nickel	3.8	0.5	mg/kg	
Potassium	118	50	mg/kg	
Selenium	< 2.5	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W
Sodium	744	50	mg/kg	
Vanadium	3.7	1.0	mg/kg	
Zinc	12.9	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/20/23				
Analyzed By: SLO				
Mercury	< 0.15	0.05	mg/kg	W
Chromium, Hexavalent **Method: 3060A/7196A**				
Analysis Date: 07/27/23				
Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble **Method: 5220D 2011**				
Analysis Date: 08/04/23				
Analyzed By: EMS				
COD, Soluble	3,130	100	mg/kg	N
Acidity, Total **Method: 2310B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Acidity, Total	< 250	250	mg/kg	N
Alkalinity, Total (as CaCO3) **Method: 2320B 2011**				
Analysis Date: 07/19/23				
Analyzed By: JCG				
Alkalinity, Total (as CaCO3)	4,200	50	mg/kg	N

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Spirit Farms

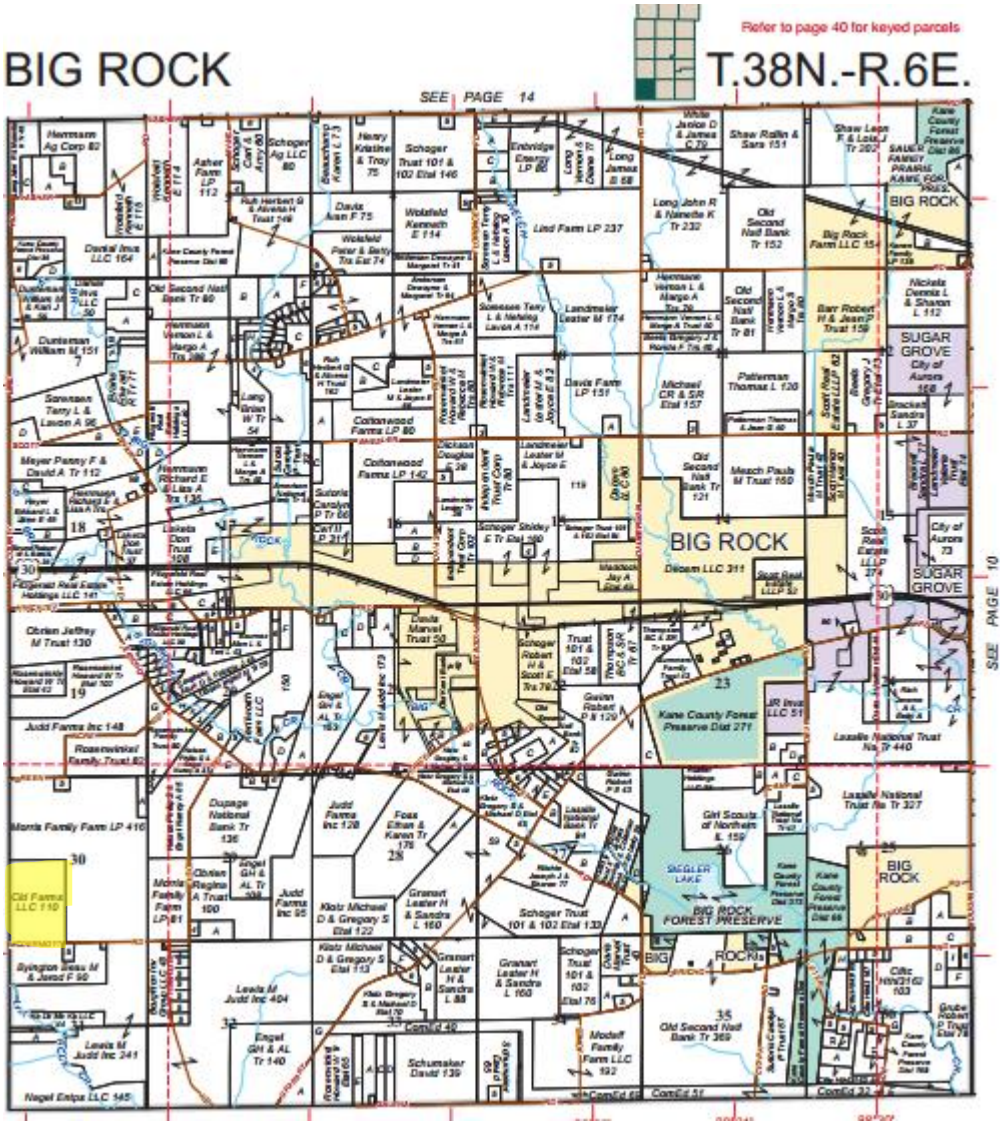
KA Hamman 19

140 acres

Kane county

Big Rock Township

Section 30



Spirit Farms

KA Hamman 19
140 acres
Kane county
Big Rock Township
Section 30

62A	Herbert silt loam, 0 to 2 percent slopes	3.3	2.5%	.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	10.0	7.5%	.60 to 2.00 in/hr
154A	Flanagan silt loam, 0 to 2 percent slopes	3.0	2.2%	.20 to 0.60 in/hr
171A	Catlin silt loam, 0 to 2 percent slopes	2.6	2.0%	.20 to 0.60 in/hr
171B	Catlin silt loam, 2 to 5 percent slopes	1.6	1.2%	.20 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	16.5	12.4%	.20 to 0.57 in/hr
233A	Birkbeck silt loam, 0 to 2 percent slopes	24.8	18.5%	.20 to 0.60 in/hr
233B	Birkbeck silt loam, 2 to 5 percent slopes	5.4	4.1%	.20 to 0.60 in/hr
236A	Sabina silt loam, 0 to 2 percent slopes	57.3	42.9%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.1	6.8%	.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER:	KA Hamman 19	COUNTY:	LaSalle
ACREAGE:	140	TOWNSHIP:	Manlius
		SECTION:	12
FARMER:	John Stewart		
ADDRESS:	3870 N. Rt. 71		
	Sheridan, IL 60551		
PHONE #:	815-695-5667		

Source of biosolids

1. Village of Addison-Aerobic
2. Hasma Lagoon 29
3. Lasma Lagoon 28
4. Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 24	0	0.01	0.03	0	0	0.01	0	0	0	0		
2	June 24	0.09	10.72	11.19	1.05	1.95	19.84	0.22	0.01	0.22	0.4		
3	June 24	0	0.34	0.41	0.03	0.05	0.69	0.01	0	0.01	0.01		
4	June 24	0.011	0.064	0.946	0.033	0.011	0.111	0	0	0	0	0.019	
		0.1	11.13	12.58	1.11	2.01	20.65	0.23	0.01	0.23	0.41	0.019	
	%of LIMIT	1	4.5	1.4	1.1	0.2	4.1	0.2	0.1	2.9	2.6		

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative Total to Date	1.949	pci/g
4	% of Total Cumulative Limit	66.52	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Gerald Pleckham

4330 W. 206th Street

Matteson, IL 60443

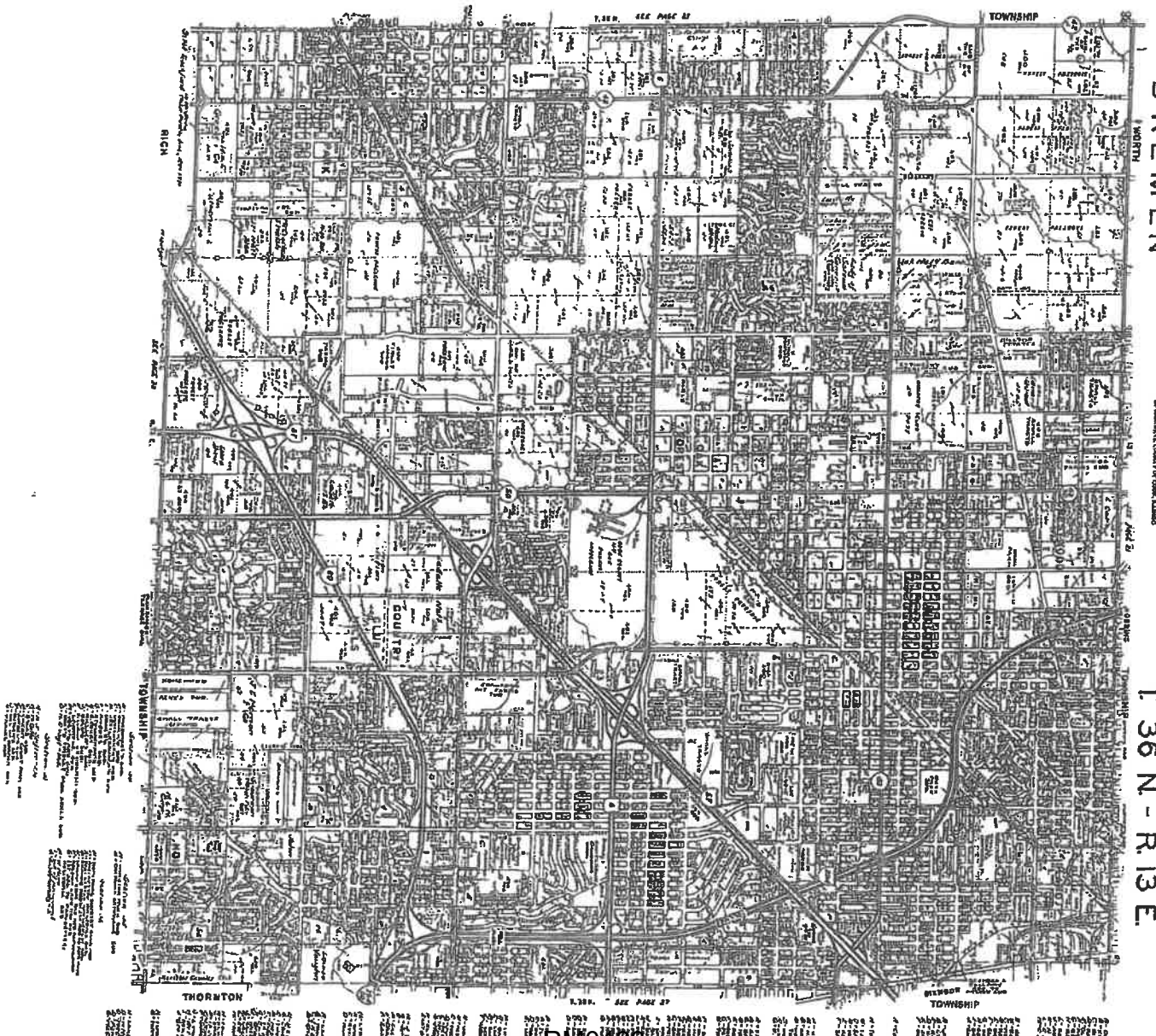
708-692-4415

Field 1

219 Acres

Cook County

Rich Township



Gerald Pleckham	Field 1
4330 W 206 St	219 acres
Matteson, IL 60443	Cook County
708-692-4415	Rich Township

235A	Bryce silty clay, 0 to 2 percent slopes	53.7	18.7%	.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	134.1	46.7%	.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	6.4	2.2%	.02 to 0.06 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	14.4	5.0%	.20 to 0.60 in/hr
805B	Orthents, clayey, undulating	65.6	22.8%	.20 to 0.60 in/hr
903A	Muskego and Houghton mucks, 0 to 2 percent slopes	0.0	0.0%	.02 to 0.06 in/hr
1903A	Muskego & Houghton mucks,undrained, 0 to 2 percent slopes	2.8	1.0%	.06 to 0.20 in/hr
4904A	Muskego and Peotone soils, ponded, 0 to 2 percent slopes	10.1	3.5%	.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: CO Pleckham 1
ACREAGE: 219
COUNTY: Cook
TOWNSHIP: Rich
SECTION:

FARMER: John Stewart
ADDRESS: 3870 North Route 71
Sheridan, IL 60551
PHONE #: 815-695-1460

Source of biosolids

1 Lasma-Lagoon 28
2 Marathon lagoon 25 cells 2, 3, 4
3 Village of Addison-Aerobic
4 Village of Addison-Anaerobic
5 Lasma-Lagoon 27
6 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	May-23	0.04	4.23	4.59	0.44	0.82	8.67	0.1	0.01	0.1	0.15		
2	May-23	0.01	2.19	3.09	0.19	0.42	3.72	0.01	0	0.05	0.06		
3	Jun-24	0	0.03	0.06	0	0	0.03	0	0	0	0		
4	Jun-24	0	0.03	0.01	0	0	0.05	0	0	0	0		
1	Jun-24	0.02	1.78	2.18	0.18	0.28	3.62	0.05	0	0.05	0.06		
5	Jun-24	0.02	3.05	3.59	0.29	0.56	6.2	0.08	0	0.08	0.09		
6	Jun-24	0.003	0.016	0.242	0.008	0.003	0.028	0	0	0	0	0.005	
	TOTAL	0.093	11.326	13.762	1.108	2.083	22.318	0.240	0.010	0.280	0.360	0.005	pci/g
	%of LIMIT	0.9	4.5	1.5	1.1	0.2	4.5	0.2	0.1	3.5	2.2		

1	Background Radium	2.040	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.045	pci/g
4	% of Total Cumulative Limit	68.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Kinsella

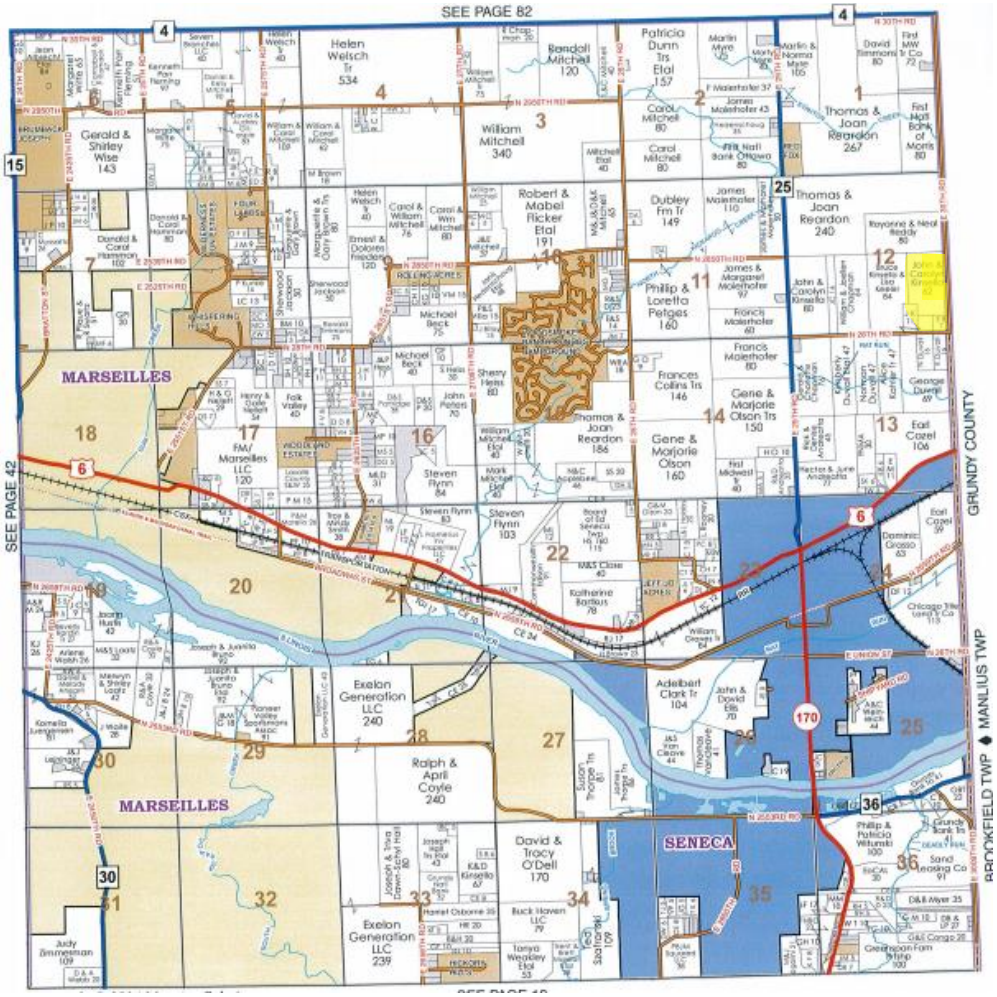
LS Kinsella 3

57 acres

LaSalle County

Manlius Township

Section 12



Kinsella

LS Kinsella 3

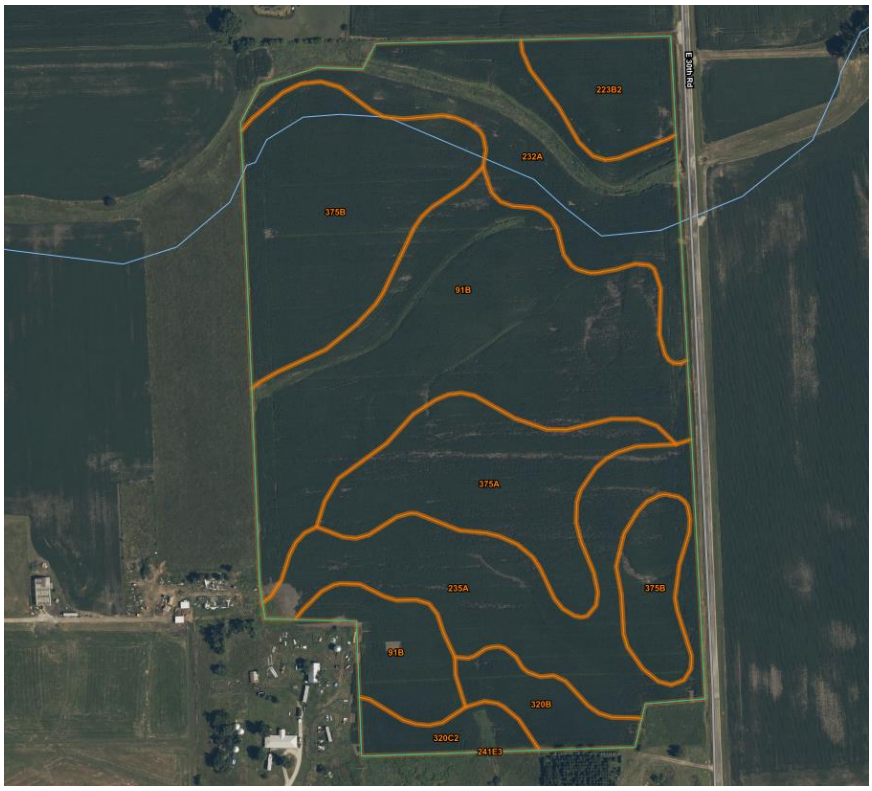
57 acres

LaSalle County

Manlius Township

Section 12

91B	Swygert silty clay loam, 2 to 4 percent slopes	17.6	30.2%	.02 to 0.06 in/hr
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	2.8	4.8%	.06 to 0.20 in/hr
232A	Ashkum silty clay loam, 0 to 2 percent slopes	7.8	13.4%	.20 to 0.60 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	9.1	15.6%	.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 - 20 percent slopes,severely eroded	0.0	0.0%	.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	1.9	3.2%	.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	1.4	2.4%	.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	6.7	11.5%	.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	11.0	18.9%	.02 to 0.06 in/hr



METAL LOADING RECORD

SITE NUMBER:	LS Kinsella 3	COUNTY:	LaSalle
ACREAGE:	57	TOWNSHIP:	Manlius
		SECTION:	12
FARMER:	Mike Kinsella		
ADDRESS:			
PHONE #:			

Source of biosolids

1 Village of Addison-Aerobic
2 Hasma Lagoon 29
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 24	0	0.04	0.09	0	0	0.04	0	0	0	0		
2	June 24	0.09	10.47	10.93	1.03	1.91	19.38	0.22	0.01	0.22	0.39		
3	June 24	0.008	0.047	0.704	0.024	0.008	0.083	0	0	0	0	0.014	
		0.1	10.56	11.72	1.05	1.92	19.5	0.22	0.01	0.22	0.39	0.014	
	%of LIMIT	1	4.2	1.3	1.1	0.2	3.9	0.2	0.1	2.8	2.4		

1	Background Radium	1.670	pci/g
2	Site Limit	2.670	pci/g
3	Cumulative Total to Date	1.684	pci/g
4	% of Total Cumulative Limit	63.07	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0489

KA Hamman 19

3/15/24

STRAUEL, NORMAN F & MARJORIE R
NORMAN F & MARJORIE R STRAUEL, TRUSTEES
21008 W HAZELNUT LN
PLAINFIELD, IL, 60544-9340

HERNANDEZ, JOSE A PUENTES & DEICI
8S790 DUGAN RD
BIG ROCK, IL, 60511-9757

TRUST # 116783
JEROME A RICH
PO BOX 610
SUGAR GROVE, IL, 60554-0610

STEININGER, CHARLES E & LEAH LIV TR
CHARLES & LEAH STEININGER, CO-TRUSTEES
8S661 MCCANNON RD
SUGAR GROVE, IL, 60554-9606

NAGEL-STRASSER LEGACY TRUST
ROBERT C & CYNTHIA C STRASSER, TRUSTEES
17025 E MONTEREY DR
FOUNTAIN HILLS, AZ, 85268-6212

LASALLE NATIONAL TRUST N A, TRUST: 116783
% RICH HARVEST FARMS CO
PO BOX 610
SUGAR GROVE, IL, 60554

GRUBE, ROBERT P 2011 TRUST ET AL
CAPS
801 WARRENVILLE RD STE 150
LISLE, IL, 60532-4328

NAGEL FAMILY LIMITED PARTNERSHIP
% NAGEL ARTHUR F
43W690 PRAIRIE RD
SUGAR GROVE, IL, 60554

SCHNABEL, THOMAS A JR & WALL-SCHNABEL, VICKI LYNN
45W125 JERICHO RD
BIG ROCK, IL, 60511-9745

JP ACRES LLC
JOHN HINTZSCHE
5S502 DAVIS RD
BIG ROCK, IL, 60511-9493

SMITH, LOUIS DWAIN
8S918 DUGAN RD
BIG ROCK, IL, 60511-9756

MCGINNIS, MATTHEW & HEATHER
8S890 DUGAN RD
BIG ROCK, IL, 60511-9756

MCCORKLE, VIRGIL E & CHRISTINE A
8S870 DUGAN RD
BIG ROCK, IL, 60511-9756

WEISS, RICHARD A & SHEILA A
8S840 DUGAN RD
BIG ROCK, IL, 60511

GROFF, ARLEAN E
8S816 DUGAN RD
BIG ROCK, IL, 60511-9757

WINCKLER, DELLA M & RICHARD F
8S738 DUGAN RD
BIG ROCK, IL, 60511

CO Pleckham 1		3/15/2024
Resident of 4411 W. Gatling Blvd Country Club Hills	Resident of 17100 Cicero Ave Country Club Hills	Resident of 17021 Cicero Ave Country Club Hills
Resident of 4201 W 167th St Country Club Hills	4840 171st St Tinly Park, IL	
	Resident of 17030 Cicero Ave Tinly Park, IL	

LS Kinsella 3		3/15/2024
20-12-400-003		
Resident of 2975 N 28TH RD SENECA IL 61360	Resident of 2905 N 32ND RD SENECA IL 61360	Resident of 2951 N 28TH RD SENECA IL 61360-9547
Resident of 2990 N 28TH RD SENECA IL 61360	RACHEL DUVALL SPECIAL NEEDS TRUST 2575 N 3350TH RD MARSEILLES IL 61341	Resident of 2980 N 28TH RD SENECA IL 61360
	Resident of 1760 EDGEWATER DR MORRIS IL 60450	Resident of E 30TH RD SENECA IL 61360

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: KA Hamman 19

6.) Size of Area Where Lime Residuals are to be Used: 140 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: KA Hamman 19

6.) Size of Area Where Lime Residuals are to be Used: 250 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

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3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

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   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: April 9, 2024

2.) Name of User: Mike Kinsella

3.) Address of User: 43W510 Kenmar Drive

4.) Phone Number of User: 630-327-2129

5.) Location Where Sludge is to be Used: LS Kinsella 3

6.) Size of Area Where Lime Residuals are to be Used: 57 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

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   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

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   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

MMK 4-9-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

August 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for July 2024. This report includes all land application work done by Stewart Spreading for July 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: July 2024

Billie M Marks

Name	Date	Telephone
	8/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Herbicides Method 1311 **Method: 8321B**				
Analysis Date: 08/06/24				
Analyzed By: STERLIN				
2,4-D	< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)	< 0.5	0.5	mg/L	S
TCLP Metals Method 1311 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A **Method: 7470A**				
Analysis Date: 07/29/24				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
TCLP Extraction	Complete			
TCLP ZHE Preparation **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
ZHE Volatiles Extraction	Complete			
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 3.0	1.0	mg/kg	W
Barium	138	0.5	mg/kg	
→Cadmium	< 1.5	0.5	mg/kg	W
Chromium	12.0	0.5	mg/kg	
→Lead	< 1.5	0.5	mg/kg	W
Selenium	< 3.0	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W

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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Analysis Date: 07/29/24 Analyzed By: KJM		Preparation Method 3050B Preparation Date: 07/29/24 Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 07/26/24 Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent Method: 3060A/7196A Analysis Date: 07/30/24 Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble Method: 5220D 2011 Analysis Date: 07/31/24 Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total Method: 2310B 2011 Analysis Date: 07/25/24 13:30 Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) Method: 2320B 2011 Analysis Date: 07/25/24 13:00 Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N
Calcium Carbonate Equivalent Method: EPA Analysis Date: 08/20/24 Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) Method: 350.1R2.0 Analysis Date: 08/05/24 Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N

LRM0502

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226 12.3	7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **July 2024**

Biosolids Field Record

Site: LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/8/2024	7/8/2024	City of Aurora - Lime	112.87	35.68	40.27
7/9/2024	7/9/2024	City of Aurora - Lime	97.07	35.68	34.63
Total			209.94		74.91

Biosolids Field Record

Site: LS Firrantello 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/8/2024	7/9 and 7/12/24	City of Aurora - Lime	782.28	35.68	279.12
Total			782.28		279.12

Biosolids Field Record

Site: LS Firantello 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/9/2024	7/12/2024	City of Aurora - Lime	623.22	35.68	222.36
Total			623.22		222.36

Biosolids Field Record

Site: LS Santoro 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/12/2024	7/12/2024	City of Aurora - Lime	593.31	37.82	224.39
7/19/2024	7/19/2024	City of Aurora - Lime	350.52	37.66	132.01
Total			943.83		356.40

Biosolids Field Record KE Moe 7					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/22/2024	7/22/2024	City of Aurora - Lime	576.71	46.25	266.73
7/23/2024	7/23/2024	City of Aurora - Lime	66.69	36.88	24.60
Total			643.40		291.32

Biosolids Field Record Site: KE Moe 11					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	7/25/2024	City of Aurora - Lime	544.2	42.03	228.73
Total			544.20		228.73

Biosolids Field Record Site: KE Johnson 1					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	7/25/2024	City of Aurora - Lime	465.16	42.03	195.51
Total			465.16		195.51

John Stewart

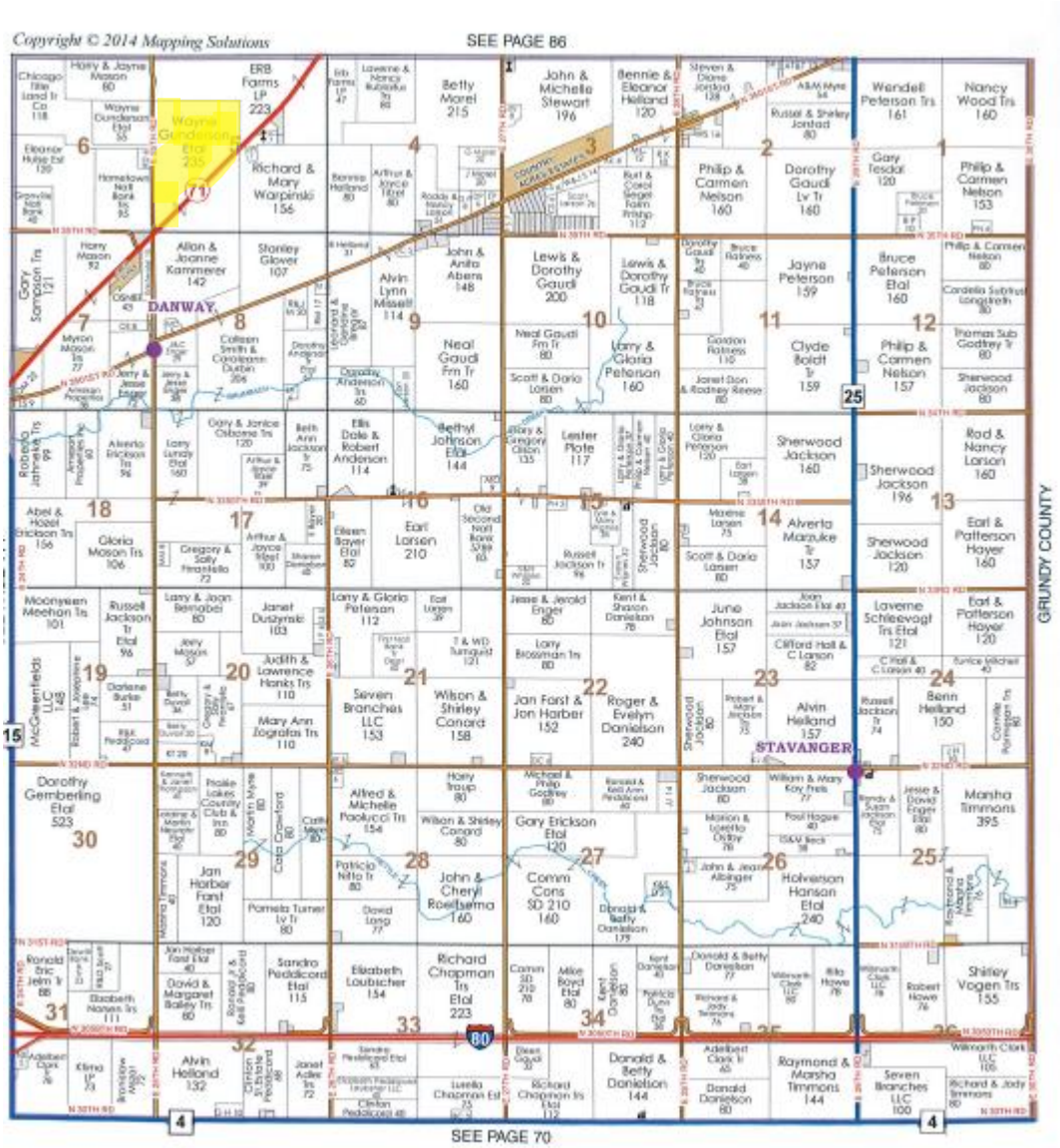
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 27
3 Marathon Lag 25 w/cells 2, 3, 4
4 DuPage
5 Lasma Lagoon 28
6 Glendale Height

Metal Loadings in Pounds per Ac

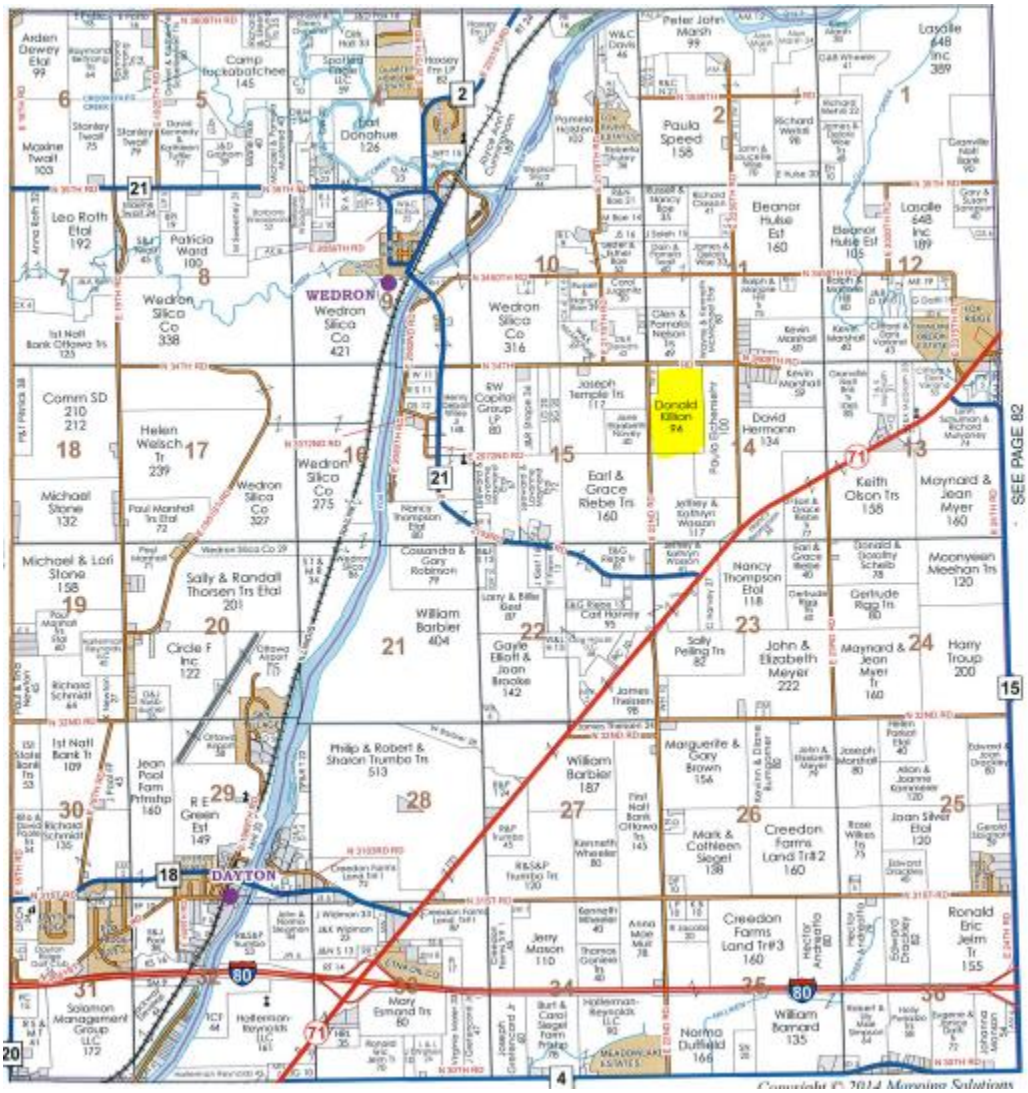
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
2	May-23	0.030	4.940	6.370	0.530	0.990	9.820	0.030	0.010	0.110	0.160					2867.02	733.96
3	May-23	0.030	4.390	6.190	0.380	0.850	7.450	0.030	0.010	0.090	0.120					2073.1	611.56
4	May-23	0.000	0.190	0.090	0.010	0.010	0.220	0.000	0.000	0.000	0.000					150	18.85
5	Oct-23	0.040	6.220	6.880	0.600	1.560	13.140	0.040	0.010	0.150	0.250					3920.49	987.96
2	Jul-24	0.020	3.000	3.500	0.280	0.580	6.150	0.080	0.000	0.080	0.100					2489.43	517.8
1	Jul-24	0.002	0.022	0.141	0.010	0.002	0.028	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			209.94	74.91
6	Aug-24	0.000	0.020	0.010	0.000	0.000	0.050	0.000	0.000	0.000	0.000				20		2.75
	TOTAL	0.13	18.85	23.9	1.84	4	36.96	0.18	0.03	0.43	0.63	0.016	pci/g				
	%of LIMIT	1.3	7.5	2.7	1.8	0.4	7.4	0.2	0.1	5.4	3.9						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.536	pci/g
4	% of Total Cumulative Limit	60.95	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Spirit Farms

LS Firr 3
93 acres
LaSalle County
Rutland Township
Section 14


WEDRON
DAYTON
SEE PAGE 82
Donald Killion 96
Earl & Grace Riebe Trs 160
William Barbier 404
Wedron Silica Co 421
Wedron Silica Co 316
Wedron Silica Co 338
Wedron Silica Co 275
Wedron Silica Co 327
Camp Pockabatchee 145
Earl Donahue 126
Paula Speed 158
Eleanor Hulse Est 160
Eleanor Hulse Est 105
Lasalle 648 Inc 389
Lasalle 648 Inc 189
Peter John Marsh 99
Leo Roth Etal 192
Patricia Ward 100
Arden Dewey Etal 99
Maxine Twait 103
Comm SD 210 212
Helen Welsch Tr 239
Michael Stone 132
Michael & Lori Stone 158
Sally & Randall Thorsen Trs Etal 201
Circle F Inc 122
Richard Schmidt 64
1st Natl Bank Tr 109
Jean Pool Farm Prtnshp 140
R E Green Est 149
Philip & Robert & Sharon Trumbo Trs 513
Cassandra & Gary Robinson 79
Gayle Elliott & Joan Brooke 142
RW Capital Group LP 80
Joseph Temple Trs 112
Kevin Marshall 60
David Hermann 134
Keith Olson Trs 158
Maynard & Jean Myer 160
Moonyeen Meehan Trs 120
Harry Troup 200
Nancy Thompson Etal 118
Gertrude Riga Trs 80
John & Elizabeth Meyer 222
Sally Pelling Trs 82
Marguerite & Gary Brown 156
William Barbier 187
Mark & Colleen Siegel 138
Creedon Farms Land Tr#2 160
Creedon Farms Land Tr#3 160
Joan Silver Etal 130
Ronald Eric Jelm Tr 155
Jerry Mason 110
Mary Esmond Trs 80
Norma Duffield 166
William Barnard 135
Solomon Management Group LLC 172
Hollerman-Reynolds LLC 161
Burt & Carol Siegel Farm Prtnp 76
Hollerman-Reynolds LLC 80
Anna Mae Mull 78
Kenneth Wheeler 80
Thomas Conlon Trs 40
Joseph Marshall 80
Rose Wilkes Trs 75
Edward Dragicevic 46
Gerald Sargent 50
Helen Pascal Etal 40
Joseph Greenwald 60
Richard Weiss 96
Richard Cleaver 41
Glen & Pamela Nelson 49
Kevin Marshall 60
Clifford & Cora Vollmer 43
Donald & Dorothy Schelb 78
Edward & Joan Dragicevic 60
Joanne Kammeier 120
Alan & Joanne Kammeier 120
Ronald Eric Jelm Tr 155

Greg Firrantello

LS Firrantello 3
93 acres
LaSalle County
Rutland Township
Section 14

91B	Swygert silty clay loam, 2 to 4 percent slopes	4.7	5.5%	0.02 to 0.06 in/hr	
91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded	14.0	16.3%	0.02 to 0.06 in/hr	
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	49.2	57.5%	0.02 to 0.06 in/hr	
235A	Bryce silty clay, 0 to 2 percent slopes	0.1	0.1%		0.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	0.0	0.0%	0.02 to 0.06 in/hr	
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.5	7.6%	0.02 to 0.06 in/hr	
375B2	Rutland silty clay loam, 2 to 5 percent slopes, eroded	5.0	5.9%	0.02 to 0.06 in/hr	
435A	Streator silty clay loam, 0 to 2 percent slopes	6.0	7.0%	0.02 to 0.20 in/hr	



METAL LOADING RECORD

SITE NUMBER: 3
ACREAGE: 93
COUNTY: LaSalle
TOWNSHIP: Rutland
SECTION: 14

FARMER: Greg Firrantello
ADDRESS: 18422 Locust Street
Lansing, IL 60438
PHONE #: 630-768-3109

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Lagoon 29
3 Lasma Lagoon 27
4 Aurora Lime

Metal Loadings in Pounds per Acre

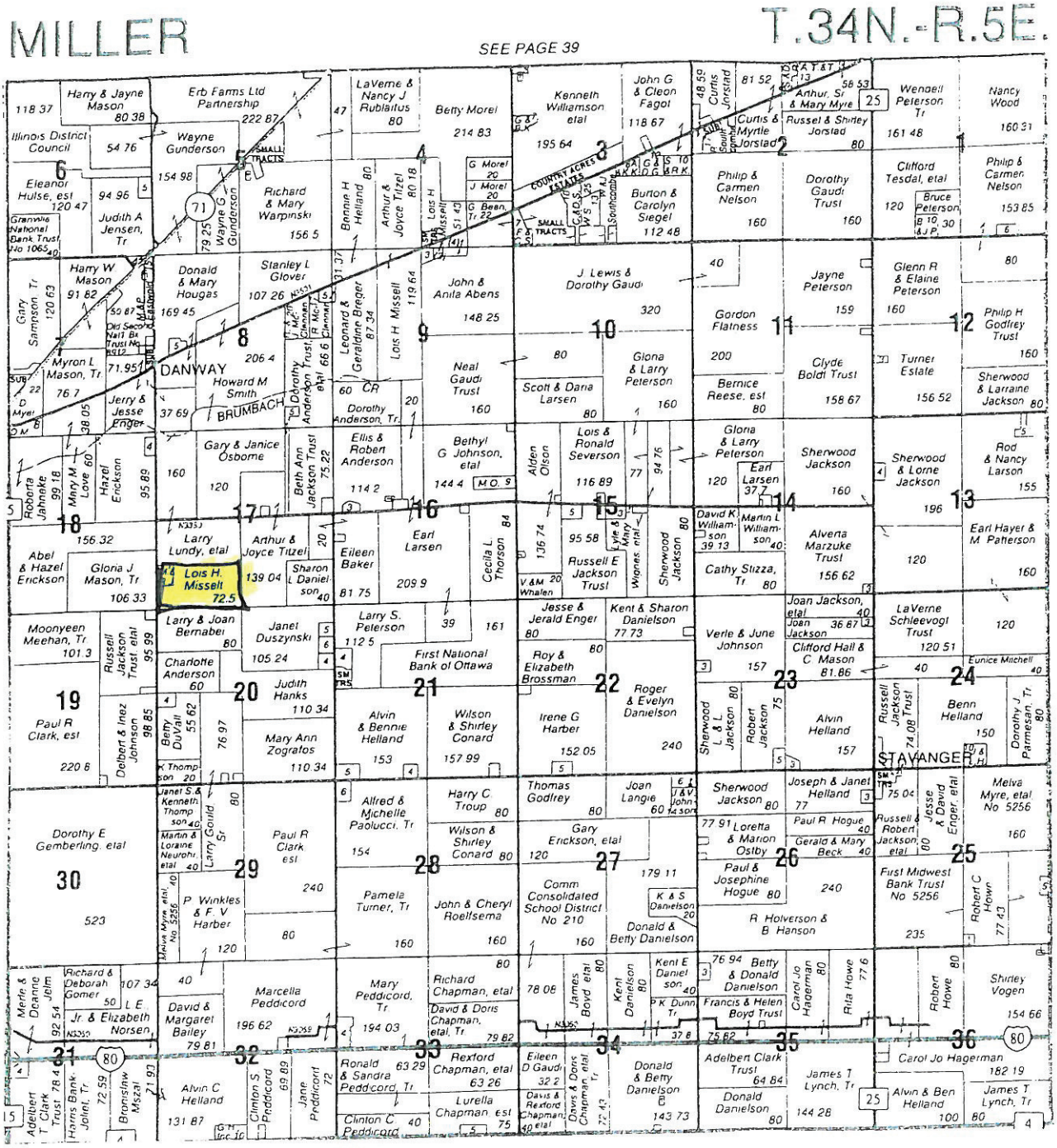
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-21	0.03	6.59	7.69	0.74	1.2	11.27	0.2	0	0.15	0.23		pci/g			3575.92	722.34
1	21-May	0	0.31	0.35	0.03	0.06	0.52	0.01	0	0.01	0.01					111.1	22.55
1	21-Sep	0.04	3.58	4.26	0.32	0.74	7.11	0.08	0	0.08	0.12					1705.71	378.67
2	21-Sep	0.02	2.35	2.97	0.21	0.4	4.12	0.05	0	0.05	0.07					1005.22	238.24
2	22-Jul	0.07	7.28	8.9	0.65	1.25	12.53	0.18	0.01	0.18	0.21					3072.71	838.85
3	22-Jul	0	0.19	0.23	0.02	0.04	0.38	0.01	0	0.01	0					115.02	25.65
4	22-Jul	0.004	0.057	0.621	0.026	0.004	0.092	0	0	0	0	.011 pci/g	5.38 pci/g			760.24	360.33
1	Oct-23	0.05	6.39	7.07	0.62	1.6	13.51	0.05	0.01	0.15	0.26					2848.07	717.71
1	July.24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21					3456.25	670.51
4	July.24	0.009	0.116	0.756	0.052	0.009	0.151	0	0	0	0	0.0190	12.3 pci/g			782.28	279.12
	TOTAL	0.28	32.57	39.43	3.21	6.25	61.06	0.74	0.03	0.77	1.11	0.019					
	%of LIMIT	2.8	13	4.4	3.2	0.6	12.2	0.7	0	9.6	6.9						

Background Radium	1.090	pci/g
Site Limit	2.090	pci/g
Cumulative total to Date	1.110	pci/g
% of Total Cumulative Limit	53.06	%

PLAT MAP

Greg Firrantello
18422 Locust Street
Lansing, IL 60438
630-768-3109

Field – Firr 1
70 acres
LaSalle County
Miller Township
Section 17



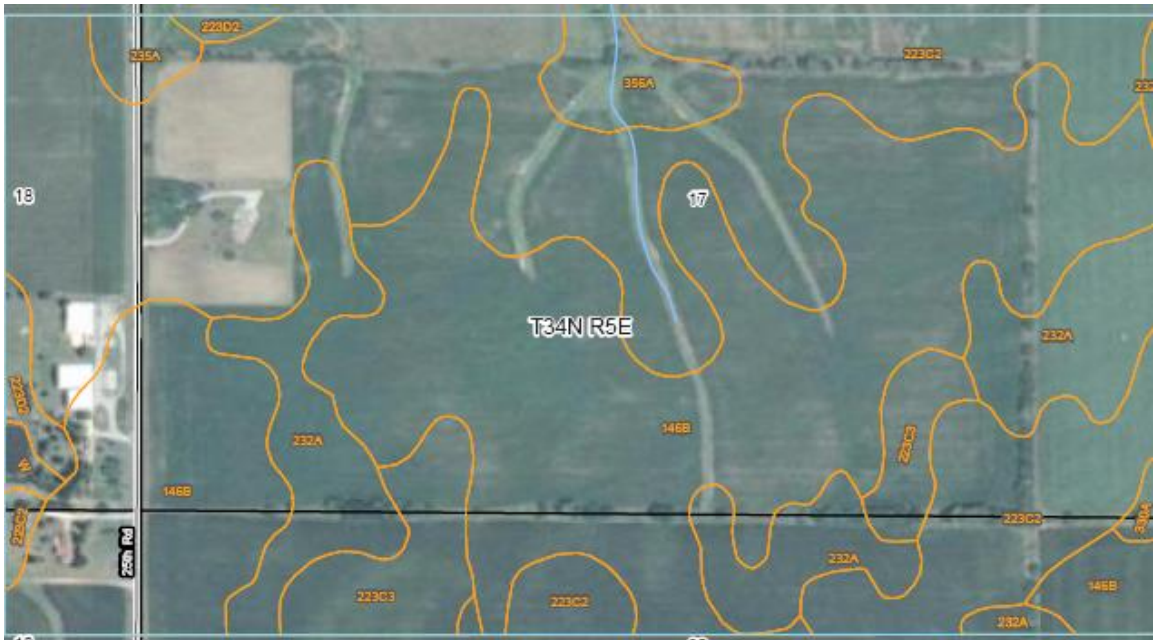
LRM0512

SOIL SERIES

Greg Firrantello
18422 Locust Street
Lansing, IL 60438
630-768-3109

Field – Firr 1
70 acres
LaSalle County
Miller Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiCL	4-6%	0.6-2.0 in/hr
Varna, 223D2	SiL	6-12%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Bryce, 235A	SiC	0-2%	0.6-2.0 in/hr
Peotone, 330A	SiCL	0-2%	0.2-0.6 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



METAL LOADING RECORD

FIELD CODE	LS FIRR 01	COUNTY:	LaSalle
SPREADABLE ACREAGE:	70	TOWNSHIP:	Miller
		SECTION:	17
FARMER:	Greg Firrantello		
ADDRESS:	367 Tyler Creek Court		
	Yorkville, IL 60560		
PHONE #:	630-768-3109		

Source of biosolids

1 Fox River Water Reclamation District
2 Glenbard Wastewater Authority
3 Marina Valley
4 City of Naperville
5 City of Plano
6 Santa Fe
7 Village of Plainfield
8 LASMA - Lagoon #28
9 LASMA - Lagoon #30
10 HASMA - Cell 3
11 LASMA - Marathon
12 Braidwood
13 Lasma Lagoon 29
14 Aurora Lime

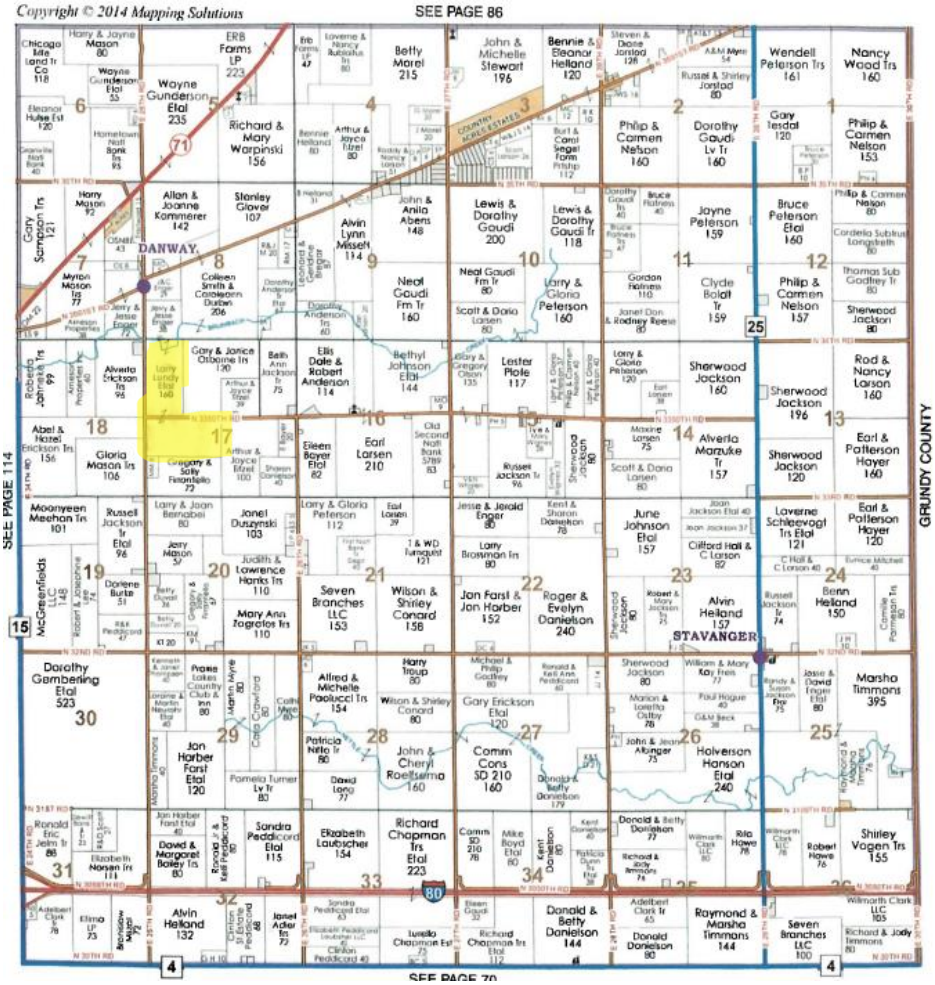
Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Molybdenum	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
Field Limit		10	250	900	100	1000	500	36	15	89	16						
1	Nov-08	0.003	0.37	0.25	0.03	0.02	0.41	0.02	0.001	0.00	0.02		pci/g				
2	Nov-08	0.02	5.15	0.81	0.13	0.42	6.76	0.02	0.01	0.01	0.09						
3	Nov-08	0.01	3.50	1.67	0.07	0.04	2.71	0.02	0.01	0.00	0.02						
4	Nov-08	0.004	1.70	0.70	0.05	0.06	2.20	0.01	0.003	0.02	0.04						
5	Nov-08	0.002	2.37	0.36	0.15	0.13	1.39	0.00	0.003	0.02	0.01						
6	Nov-08	0.00	3.85	0.69	0.11	0.22	2.84	0.00	0.00	0.00	0.00						
4	Jan-09	0.004	1.70	0.70	0.05	0.06	2.20	0.01	0.003	0.02	0.04						
6	Jan-09	0.02	1.16	0.60	0.06	0.05	1.78	0.00	0.00	0.00	0.14						
4	Mar-09	0.003	1.51	0.66	0.05	0.05	2.03	0.00	0.002	0.02	0.03						
7	May-09	0.00	0.33	0.15	0.01	0.01	0.28	0.00	0.001	0.01	0.01						
8	Nov-09	0.06	6.97	12.38	0.75	2.52	15.54	0.19	0.02	0.15	0.22						
9	Jun-11	0.04	5.28	7.16	0.50	1.11	9.42	0.60	0.01	0.11	0.13						
10	Aug-11	0.00	0.45	0.41	0.04	0.03	0.57	0.01	0.00	0.01	0.00					110.39	22.52
9	Apr-12	0.05	4.54	5.37	0.46	1.30	9.12	0.09	0.01	0.06	0.18					1,468.39	393.53
9	Nov. 2012	0	0.45	0.46	0.04	0.10	0.82	0.01	0	0.01	0.01					145.29	32.69
11	Nov. 2012	0.06	5.91	6.75	0.61	1.83	11.92	0.11	0.02	0.08	0.14					1,127.97	530.15
9	Dec. 2012	0.00	0.30	0.31	0.03	0.07	0.55	0.01	0.00	0.00	0.01					109.04	24.53
7	Nov. 2016	0.05	2.90	1.78	0.21	0.05	3.84	0.09	0.01	0.01	0.07				2675.00		317.27
7	Dec.2017	0.04	0.04	0.04	0.04	0.04	0.07	0.04	0.00	0.07	0.07				1800.00		261.78
12	Dec.2017	0.03	7.41	10.95	0.031	0.36	9.68	0.03	0.01	0.09	0.09				925.00		278.01
8	Oct-19	0.07	9.15	13.15	0.980	1.83	18.61	0.35	0.01	0.11	0.26					2,459.60	787.07
8	Jul-20	0.04	5.43	7.56	0.510	1.06	9.78	0.10	0.01	0.06	0.19					2,438.30	448.65
13	Sep-21	0.04	6.32	7.98	0.560	1.08	11.07	0.14	0.00	0.14	0.20					2,103.82	498.61
8	Jul-22	0.06	5.31	6.09	0.550	0.94	9.56	0.14	0.01	0.14	0.20					2,463.44	509.93
14	Jul-22	0.006	0.080	0.882	0.037	0.006	0.131	0.000	0.000	0.000	0.000	0.0150	5.38 pci/g			588.64	386.15
8	Oct-23	0.020	3.200	3.530	0.310	0.800	6.750	0.020	0.000	0.080	0.130					1,056.27	266.18
14	Jul-24	0.010	0.124	0.806	0.056	0.010	0.161	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			623.22	222.36
	TOTAL	0.633	85.504	92.198	6.424	14.196	140.192	2.01	0.142	1.219	2.3	0.035					
	% of LIMIT	6.3%	34.2%	10.2%	6.4%	1.4%	28.0%	5.6%	0.9%	1.4%	14.4%						

Background Radium	1.848	pci/g
Site Limit	2.848	pci/g
Cumulative total to Date	1.883	pci/g
% of Total Cumulative Limit	66.12	%

Santoro

Field 5
114 acres
LaSalle County
Miller Township
Section 17



SOIL SERIES

Santoro

Field 5
114 acres
LaSalle County
Miller Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiCL	4-6%	0.6-2.0 in/hr
Varna, 223D2	SiL	6-12%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Bryce, 235A	SiC	0-2%	0.6-2.0 in/hr
Peotone, 330A	SiCL	0-2%	0.2-0.6 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



METAL LOADING RECORD

SITE NUMBER: LS Santoro 5
ACREAGE: 114
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 17

FARMER: Frank Santoro
ADDRESS: 2080 Simons Road
Oswego, IL 60543

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	July 2024	0.070	6.2400	7.200	0.590	1.040	12.450	0.17	0.01	0.15	0.23					4658.18	903.69	
2	July 2024	0.009	0.120	0.781	0.054	0.009	0.156	0.00	0.00	0.00	0.00	0.019	12.3 pci/g			943.83	356.4	
TOTAL		0.079	6.360	7.981	0.644	1.049	12.606	0.17	0.01	0.15	0.23	0.019						
%of LIMIT		0.8	2.5	0.9	0.6	0.1	2.5	0.2	0	1.9	1.4							

1	Background Radium	2.440	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.459	pci/g
4	% of Total Cumulative Limit	81.97	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

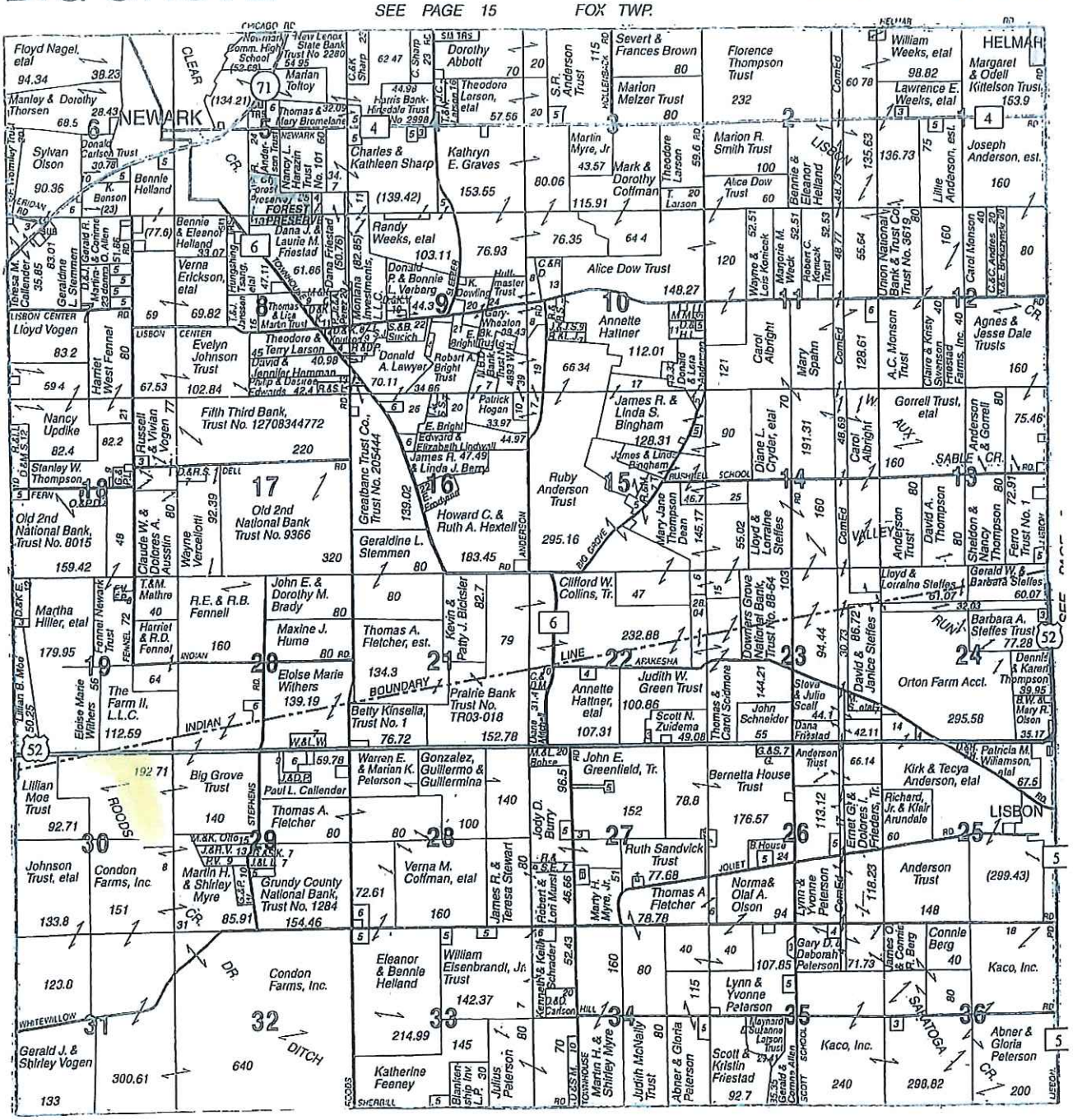
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 7
67 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.



LRM0518

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 7
67 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Drummer, 152A	SiCL	0-2%
Elburn, 198A	SiL	0-2%
Varna, 223D3	SiCL	6-12%
Blackberry, 679B	SiL	2-5%
Hennepin- Casco, 820E	Complex	12-30%



METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 67
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 30

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Metal Loadings in Pounds per Acr

Source of biosolids
1 LASMA - Lagoon #30
2 DuPage
3 LASMA-Lagoon 29
4 LASMA-Lagoon 28
5 LASMA- Cell 2 and 5
6 Aurora Lime
7 LASMA-Lagoon 27
8 Glendale Heights

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**Mar. 2012**	0.08	7.63	35.32	0.76	2.18	15.32	0.19	0.02	0.1	0.31					2652.58	710.89
2	**July 2012**	0	0.92	0.65	0.02	0.05	1.07	0	0	0.01	0.02					300	38.21
2	**October 2012**	0.01	5.08	2.92	0.14	0.26	6.67	0.03	0.01	0.04	0.08					1400	190.18
2	**Nov 2012**	0.01	2.91	1.67	0.08	0.15	3.81	0.01	0	0.03	0.05					800	108.672
3	Nov-16	0.03	3.64	2.72	0.37	0.83	7.47	0.04	0.01	0.04	0.16					1350.34	288.97
4	Aug-17	0.03	3.5	2.56	0.35	0.93	7.4	0.06	0	0.04	0.05	0.006	4.1 pci/g			1040.43	261.15
2	Oct-18	0.01	3.07	2.18	0.17	0.19	4.4	0.02	0	0.03	0.06				1000		132.44
2	Nov-18	0	2.25	1.6	0.13	0.14	3.23	0.02	0	0.02	0.05				800		105.96
5	Jul-20	0.07	9.7	13.31	0.97	2.02	19.4	0.29	0.01	0.11	0.26					2768.46	747.48
4	Jul-20	0	0.05	0.07	0.01	0.01	0.11	0	0.01	0	0	0.006	pci/g		20.48		3.77
5	Sep-21	0.06	8	8.71	0.77	1.81	15.61	0.19	0.01	0.19	0.27					1950.89	649.65
2	Jul-22	0	0.07	0.05	0	0	0.09	0	0	0	0				25.00		3.54
4	Jul-22	0.05	4.78	5.49	0.49	0.85	8.62	0.13	0.01	0.13	0.18					2132.04	441.33
6	Jul-22	0.003	0.046	0.507	0.021	0.003	0.075	0	0	0	0	0.009				544.81	211.77
7	Sep-23	0.03	3.94	5.45	0.42	0.81	7.76	0.03	0	0.09	0.13					1153.37	317.18
7	Oct-23	0.04	2.57	5.04	0.25	0.54	5.22	0.06	0.01	0.06	0.09					860.97	208.35
8	Jul-24	0	0.09	0.06	0.01	0	0.22	0	0	0	0				40.00		5.50
4	Jul-24	0.05	4.64	5.36	0.44	0.77	9.26	0.13	0	0.12	0.17					2015.11	390.13
6	Jul-24	0.013	0.166	1.084	0.075	0.013	0.216	0	0	0	0	0.027	12.3 pci/g			643.40	291.32
	TOTAL	0.473	62.886	93.667	5.401	11.543	115.735	1.2	0.09	1.01	1.88	0.048					
	%of LIMIT	4.7	25.2	10.4	5.4	1.2	23.1	1.2	0.1	12.6	11.7						

Background Radium	1.257	pci/g
Site Limit	2.257	pci/g
Cumulative Total to Date	1.305	pci/g
% of Total Cumulative Limit	57.82	%

Benjamin H. Moe

415 Walnut Street

Yorkville, IL 60560

(630) 553-2798

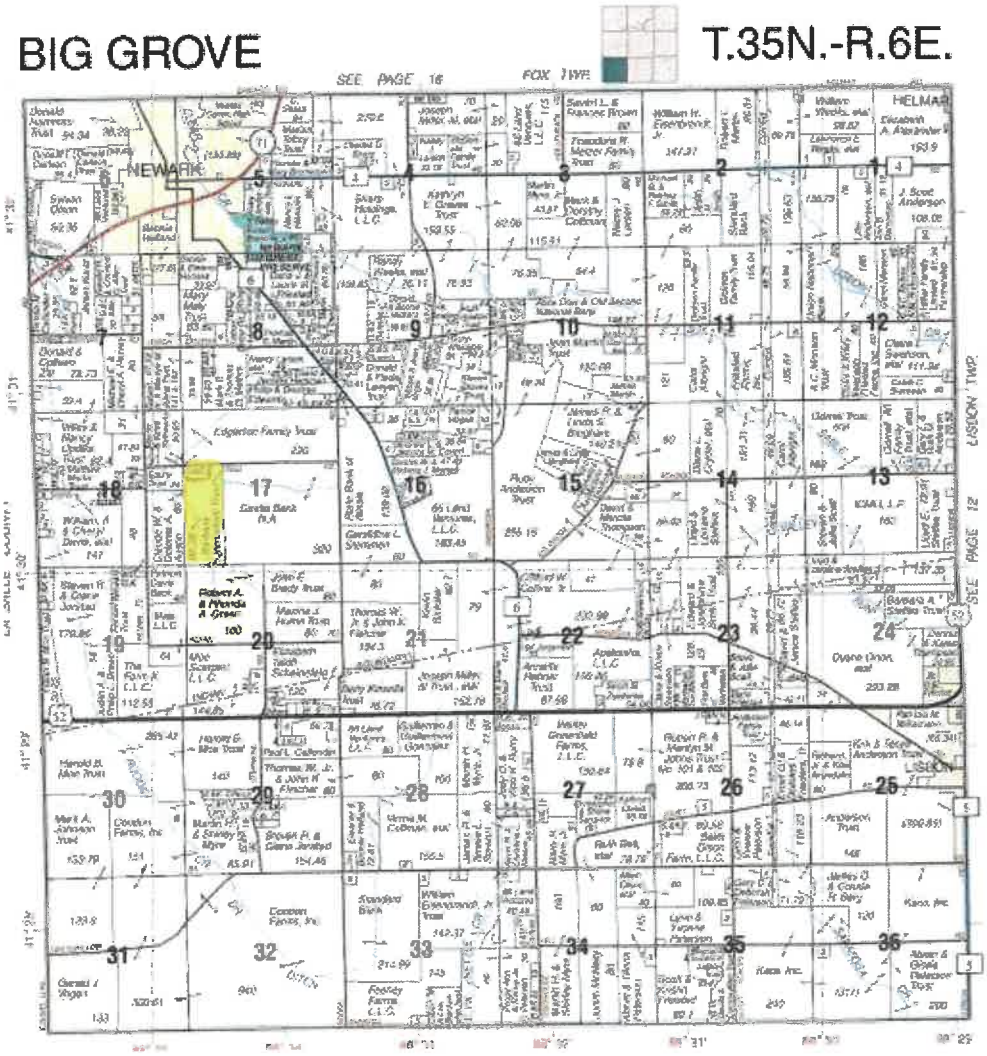
Field 11

63 acres

Kendall County

Big Grove Township

Section 17



Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 11
63 acres
Kendall County
Big Grove Township
Section 17

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.6	1.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.3	20.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	18.1	20.6%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	23.5	26.7%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	6.6	7.5%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	18.2	20.7%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.6	1.8%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Moe 11
ACREAGE: 63
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: John Stewart
ADDRESS: 3870 N IL Rt. 71
Sheridan, IL 60551
815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1	Sandwhich	10
2	Lasma Lagoon 28	11
3	Marathon lag 25 cells 2,3,4	
4	Lasma Lagoon 29	
5	Aurora Lime	
6	DuPage	
7	Naperville-Stockpile 1	
8	Village of Plainfield	
9	Glendale Heights	

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
2	May 2023	0.03	3.58	3.88	0.37	0.69	7.34	0.09	0.01	0.09	0.13		
3	May 2023	0.03	4.15	5.84	0.36	0.8	7.04	0.03	0.01	0.01	0.02		
4	May 2023	0	0.51	0.65	0.05	0.1	1	0	0	0.01	0.02		
1	June 2023	0	0.41	0.46	0.15	0.1	0.55	0.01	0	0	0.05		
5	June 2023	0.005	0.074	0.81	0.034	0.005	0.12	0	0	0	0	0.014	5.38 pci/g
6	June 2023	0	0.2	0.13	0.01	0.01	0.26	0	0	0	0		
7	Nov 2023	0.01	7.55	3.66	0.25	0.15	9.84	0.04	0.01	0.09	0.11		
8	Oct.Nov 23	0.006	0.48	0.3	0.03	0.01	0.76	0.01	0	0.01	0.01		
10	July.24	0	0.04	0.09	0	0	0.04	0	0	0	0		
11	July.24	0	0.13	0.04	0.01	0.01	0.19	0	0	0	0		
9	July.24	0	0.11	0.07	0.01	0	0.27	0	0	0	0		
2	July.24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21		
5	July.24	0.011	0.139	0.907	0.063	0.011	0.181	0	0	0	0	0.023	12.3 pci/g
	TOTAL	0.15	23.08	23.42	1.88	2.84	38.97	0.34	0.04	0.35	0.55	0.037	
	%of LIMIT	1.5	9.2	2.6	1.9	0.3	7.8	0.3	0.1	4.4	3.4		

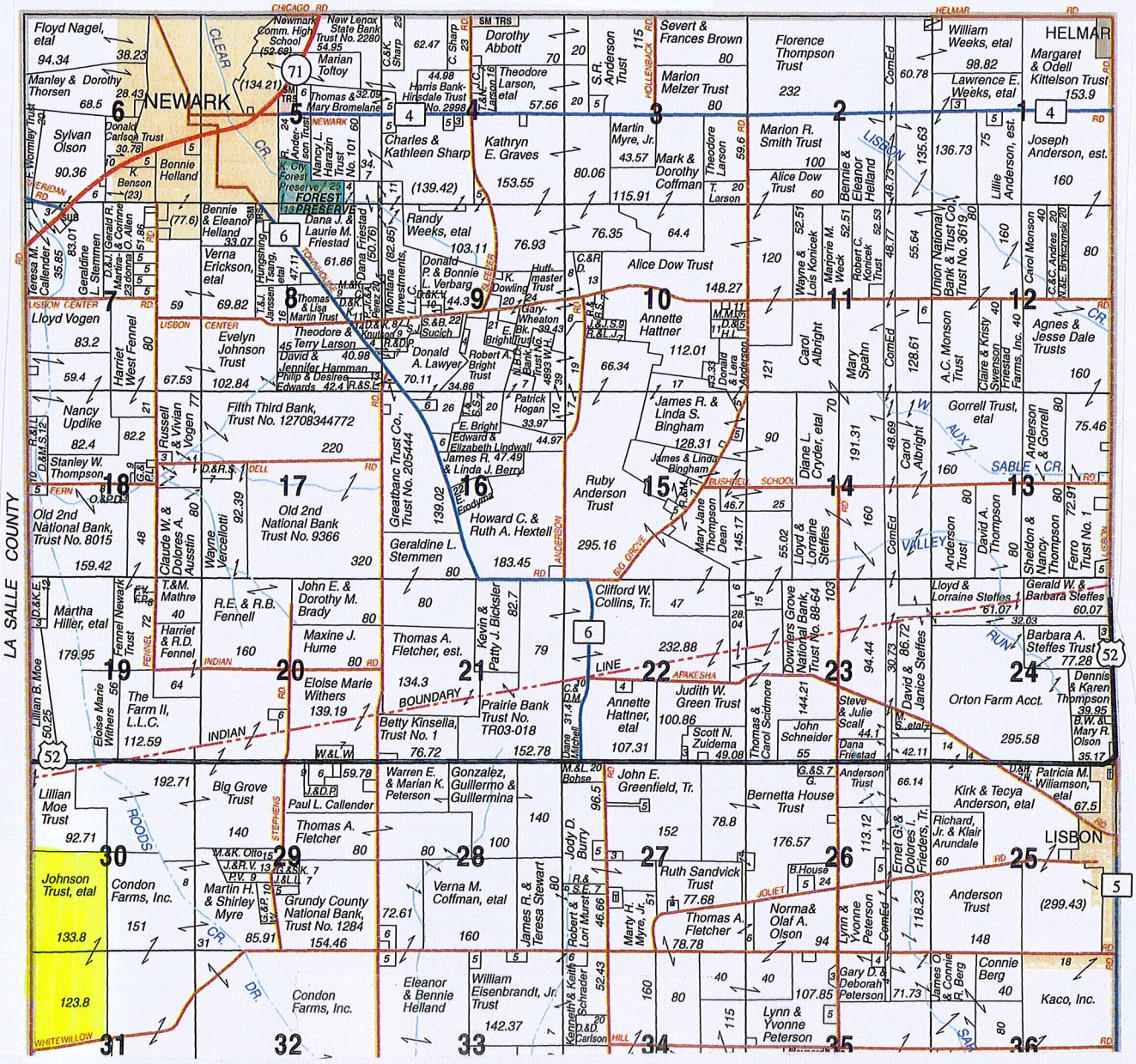
1	Background Radium	2.380	
2	Site Limit	3.000	
3	Cumulative Total to Date	2.417	
4	% of Total Cumulative Limit	80.57	

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Johnson

Field 1
236 acres
Kendall County
Big Grove Township
Section 30,31

BIG GROVE T.35N.-R.6E.

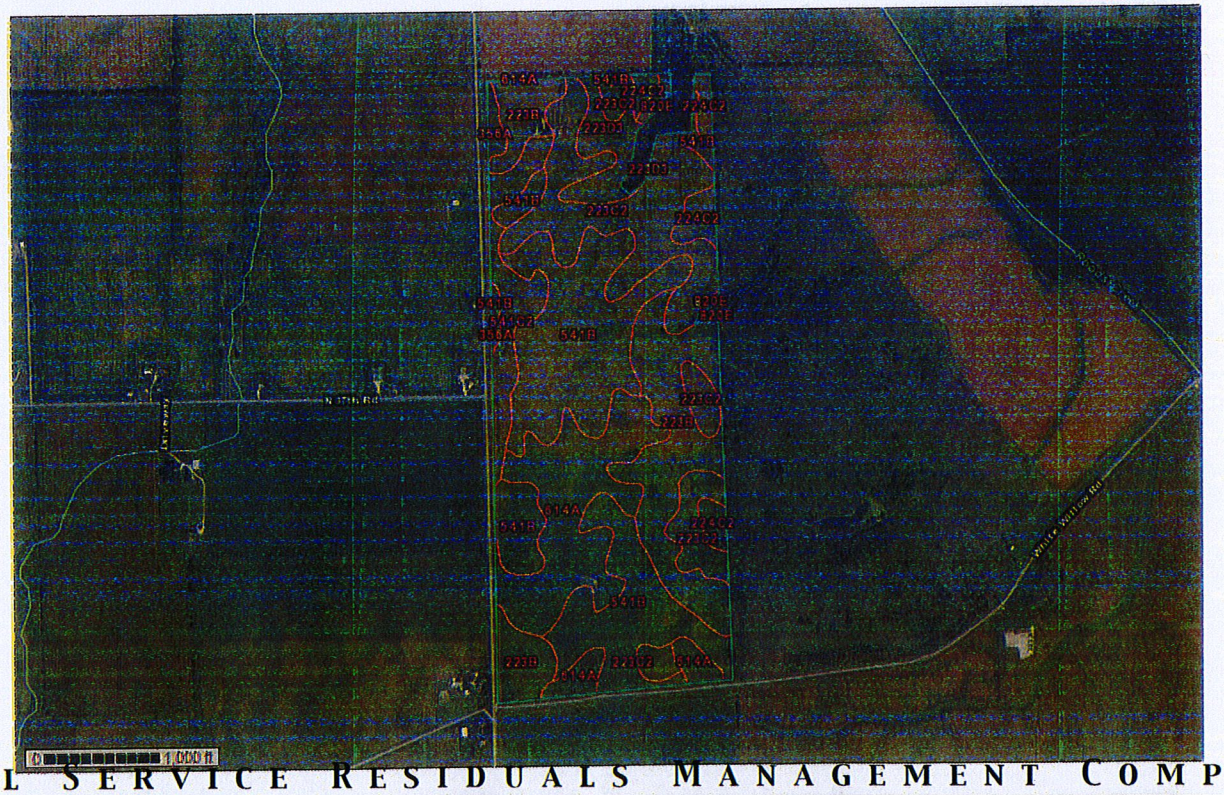

NEWARK
HELMAR
LISBON
LA SALLE COUNTY
Floyd Nagel, etal
Manley & Dorothy Thorsen
Sylvan Olson
Donald Carlson Trust
Bennie Helland
Verna Erickson, etal
Bennie & Eleanor Helland
Randy Weeks, etal
Donald P. & Bonnie L. Verbarg
Alice Dow Trust
Annette Hattner
Lloyd Vogen
Evelyn Johnson Trust
Theodore & Terry Larson
Fifth Third Bank, Trust No. 12708344772
Nancy Updike
Russell & Vivian Vogen
Stanley W. Thompson
Old 2nd National Bank, Trust No. 8015
Old 2nd National Bank Trust No. 9366
Greatbanc Trust Co., Trust No. 205444
Howard C. & Ruth A. Hextell
Geraldine L. Stemmen
Claude W. & Dolores A. Austin
Wayne Vercellotti
Martha Hiller, etal
T.&M. Mathre
Harriet & R.D. Fennel
R.E. & R.B. Fennell
John E. & Dorothy M. Brady
Maxine J. Hume
Thomas A. Fletcher, est.
Kevin & Patty J. Bicksler
Eloise Marie Withers
The Farm II, L.L.C.
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
Cliffford W. Collins, Tr.
Ruby Anderson Trust
James R. & Linda S. Bingham
Mary Jane Thompson Dean
Diane L. Cryder, etal
Lloyd & Lorraine Steffes
Downers Grove National Bank, Trust No. 88-64
Judith W. Green Trust
Annette Hattner, etal
Scott N. Zuidema
Thomas & Carol Sidmore
John Schneider
Steve & Julie Scalf
Dana Friestad
David & Janice Steffes
Orton Farm Acct.
Dennis & Karen Thompson
Barbara A. Steffes Trust
Gerald W. & Barbara Steffes
Lloyd & Lorraine Steffes
Sheldon & Nancy Thompson
David A. Thompson
Anderson Trust
Anderson & Gorrell
Gorrell Trust, etal
A.C. Monson Trust
Agnes & Jesse Dale Trusts
Claire & Kristy Swenson Forestal Farms, Inc.
Carol Albright
Mary Spahn
Wayne & Lois Konicek
Marjorie M. Week
Robert C. Konicek Trust
Union National Bank & Trust Co., Trust No. 3619
Carol Monson
C.&C. Andres
N.&E. Brkczynski
Bennie & Eleanor Helland
Marion R. Smith Trust
Alice Dow Trust
Marion Melzer Trust
Severt & Frances Brown
Florence Thompson Trust
William Weeks, etal
Lawrence E. Weeks, etal
Margaret & Odell Kittelson Trust
Joseph Anderson, est.
Lillie Anderson, est.
Martin Myre, Jr.
Mark & Dorothy Coffman
Theodore Larson
Kathryn E. Graves
Charles & Kathleen Sharp
Theodore Larson, etal
Dorothy Abbott
S.R. Anderson Trust
Harris Bank-Hinsdale Trust No. 2998
Thomas & Mary Bromelaner
Marian Tofloy
Newmark Comm. High School
New Lenox State Bank Trust No. 2280
Nancy L. Harazin Trust No. 101
R. Anderson Trust
K. City Forest Preserve
FOREST PRESERVE
Dana J. & Laurie M. Friestad
Gerald R. & Corinne M. Allen
Martin- Allen
Teresa M. Callender
Geraldine L. Stemmen
Harriet West Fennel
Fennel Newark Trust
Martin H. & Shirley Myre
Grundy County National Bank, Trust No. 1284
Condon Farms, Inc.
Johnson Trust, etal
Lillian Moe Trust
Big Grove Trust
Paul L. Callender
Thomas A. Fletcher
Gonzalez, Guillermo & Guillermina
Warren E. & Marian K. Peterson
Verna M. Coffman, etal
James R. & Teresa Stewart
Jody D. Burry
John E. Greenfield, Tr.
Bernetta House Trust
Ruth Sandvick Trust
Thomas A. Fletcher
Norma& Olaf A. Olson
Lynn & Yvonne Peterson
Richard, Jr. & Klair Arundale
Ernest G. & Dolores I. Frieders, Tr.
Anderson Trust
(299.43)
Kirk & Tecya Anderson, etal
Patricia M. Williamson, etal
Connie Berg
Kaco, Inc.
James O. & Connie R. Berg
Gary D. & Deborah Peterson
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Kenneth Keith & Schrader
Lynn & Yvonne Peterson
Robert & Lori Murst
Marty H. Myre, Jr.
Roods
Stephens
Indian
Big Grove
Apakesha
Valley
Sable Cr.
Aux
Run
Chicago Rd
Helmar Rd
Lisbon Center Rd
Dell Rd
Fern Rd
Fennel Rd
Indian Rd
Anderson Rd
Big Grove Rd
Hollenback Rd
Lisbon Rd
Joliet Rd
Cr.
Dr.
Line
Boundary
Hill
Whitewillow
Sam
Clear Cr.
Meridian Rd
Sub
Sm Trs
Bushkill
School
Dell
Lisbon Center
Lisbon
Center
Newark
Cr.
Rd
Dr.
Hill
Line
Boundary
Run
Valley
Aux
Sable Cr.

Soil Map

Johnson

Field 1
236 acres
Kendall County
Big Grove Township
Section 30,31

223B	Varna silt loam, 2 to 4 percent slopes	44.0	18.4%	(0.06 to 0.20 in/hr)
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	47.9	20.1%	(0.06 to 0.20 in/hr)
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	8.4	3.5%	(0.06 to 0.20 in/hr)
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	8.2	3.5%	(0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	2.0	0.8%	(0.20 to 0.60 in/hr)
541B	Graymont silt loam, 2 to 5 percent slopes	74.6	31.2%	(0.06 to 0.20 in/hr)
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	13.6	5.7%	(0.06 to 0.20 in/hr)
614A	Chenoa silty clay loam, 0 to 2 percent slopes	38.6	16.2%	(0.06 to 0.20 in/hr)
820E	Hennepin-Casco complex, 12 to 30 percent slopes	1.7	0.7%	(0.20 to 0.60 in/hr)



3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

METAL LOADING RECORD

SITE NUMBER: KE Johnson 1
ACREAGE: 236
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 30, 31

FARMER: John Stewart
ADDRESS: 3870 N Rt. 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids
1 LASMA- cells, marathon, lagoon 24
2 LASMA- Lagoon 28
3 Aurora
4 Lasma Lagoon 29
5 Lasma cell 4
6 DuPage

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	July 2016	0.03	2.07	2.49	0.21	0.54	4.390	0.040	0.000	0.030	0.060					2627.78	596.51	
2	August 2016	0.040	3.210	3.220	0.300	0.600	5.610	0.040	0.000	0.040	0.140					3789.16	833.62	
3	November 2016	0.015	0.044	0.811	0.026	0.017	0.156	0.000	0.000	0.000	0.000	0.007	pci/g			1758.71	702.12	4.7 pci/g
4	August 2018	0.020	2.180	2.480	0.240	0.500	4.480	0.050	0.000	0.050	0.080					2605.6	644.89	
2	October 2019	0.03	3.89	5.59	0.42	0.78	7.91	0.15	0	0.05	0.11					3566.18	1141.18	
3	October 2019	0.003	0.011	0.142	0.008	0.001	0.019	0	0	0	0	0.0010				394.43	153.24	
2	Aug-21	0.02	2.7	3.48	0.26	0.54	5.03	0.06	0	0.06	0.09					1888.82	730.97	
4	Aug-21	0.00	0.25	0.25	0.02	0.03	0.42	0.01	0.00	0.01	0.01					333.17	66.30	
1	Sep-21	0.01	1.41	1.54	0.14	0.32	2.76	0.03	0.00	0.03	0.05					1261.09	419.95	
2	Sep-21	0.01	0.97	1.16	0.09	0.20	1.94	0.02	0.00	0.02	0.03					1280.60	284.29	
2	Jul-22	0.03	3.11	3.56	0.32	0.55	5.60	0.08	0.00	0.08	0.12					3023.91	625.95	
3	Jul-22	0.002	0.033	0.358	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006	5.38 pci/g			761.89	316.57	
5	Aug-23	0.040	6.990	10.020	0.650	1.430	13.030	0.040	0.010	0.140	0.220					1904.12	597.89	
2	Aug-23	0.020	2.420	2.230	0.220	0.320	4.520	0.050	0.000	0.050	0.110					1058.3	221.18	
6	Aug-23	0.000	0.050	0.300	0.020	0.680	0.000	0.000	0.000	0.000	0.010				225		30.95	
2	July.2024	0.010	1.330	1.530	0.130	0.220	2.650	0.040	0.000	0.030	0.050					2115.66	410.44	
3	July.2024	0.002	0.032	0.209	0.014	0.002	0.042	0.000	0.000	0.000	0.000	0.005	12.3 pci/g			465.16	195.51	
	TOTAL	0.282	30.700	39.370	3.083	6.732	58.610	0.61	0.01	0.59	1.08	0.019	pci/g					
	%of LIMIT	2.8	12.3	4.4	3.1	0.7	11.7	0.6	0	7.4	6.7							

1	Background Radium	1.710	pci/g
2	Site Limit	2.710	pci/g
3	Cumulative total to Date	1.729	pci/g
4	% of Total Cumulative Limit	63.80	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0527

LS Gunderson 1	16-05-101-000 16-05-102-000 16-05-301-000 16-05-302-000	04/1/2023 6/29/2024
C/O CHAD B GUNDERSON 2500 RIIVENDELL DR NEW LENOX IL 60451	**GUNDERSON, WAYNE G ETAL**	LaSalle County Health Department 717 E. Etna Rd Ottawa, IL 61350
Steve Kwarten 216 Green Mountain Drive Bolingbrook IL 60440	MASON, HARRY 3525 N IL ST RT 71 MARSEILLES IL 61341	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360
Heather K. Kwarten 304 Pueblo Drive Bolingbrook IL 60440	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360	WARPINSKI, RICHARD/ MARY 13243 LAKE MARY DR PLAINFIELD IL 60585
STILLGRASS LAND LLC 3549 E 25TH RD MARSEILLES IL 61341	KAMMERER, ALLAN W/JOANNE 2370 N 32RD RD MARSEILLES IL 61341	ERB FARMS LTD PARTNERSHIP 3597 N IL ST RT 71 MARSEILLES IL 61341

LS Firrantello 3
14-14-100-002
15-14-103-000

Sent 6/15/2022
6/29/2024
3/15/2024
6/15/2024

Resident of
1515 CINDY LN
SANDWICH IL 60548

Dorothy J Temple Trust
805 Knottingham Dr
Ottawa IL 61350

Resident of
463 BANDMOUR PLACE
O'FALLON IL 62269

Thomas Williams
3396 E 22nd Rd
Ottawa IL, 61350

Nelson Living Trust
2221 N 34Th Rd
Ottawa IL, 61350

LaSalle County Health Department
717 E Etna Rd
Ottawa, IL 61350

Dorothy Temple Trust
805 Knottingham Dr
Ottawa IL, 61350

Resident of
17308 W 147TH ST
LOCKPORT IL 60441

Resident of
3419 E 2175TH RD
OTTAWA IL 61350

Resident of
PO BOX 546
SOMONAUK IL 60552

Resident of
13504 78TH CT
DYER IN 46311

Resident of
3275 E 2153RD RD
OTTAWA IL 61350

Glenn Applebee
Road Commissioner
2835 E. 24th Rd
PO Box 66
Marseilles, IL 61341

LS Firrantello 1 16-17-303-000	**Greg Firrantello** **367 Tyler Creek Court** **Yorkville, IL 60560**	**Miller Township** **Stewart Anderson** **2575 N 3350th Rd.** **Marseilles IL 61341**
LaSalle County Health Dept. 717 E Etna Rd, Ottawa, IL 61350	Larry Lundy 1007 S. Park Street Streator, IL 61364	2/29/2024 6/15/2024
Jerry Mason 3309 E 25th Rd Marseilles IL, 61341	Mary Jo McLachlan 3314 E. 25th Road Marseilles, IL 61341	Arthur Titzel 2618 N. 3749th Road Sheridan, IL 60551
Russell Anderson 2620 N 3749th Rd Sheridan IL, 60551	Larry Bernabei 1289 N 2303 RD Ottawa IL, 61350	Janet Duszynski 7 N 143 Willow Roselle IL, 60172

LS Santoro 5		5/5/2022 3/15/2024 6/15/2024
LaSalle County Health Dept. 717 E Etna Rd, Ottawa, IL 61350	Larry Lundy 1007 S. Park Street Streator, IL 61364	**Miller Township** **Stewart Anderson** **2575 N 3350th Rd.** **Marseilles IL 61341**
Jerry Mason 3309 E 25th Rd Marseilles IL, 61341	Mary Jo McLachlan 3314 E. 25th Road Marseilles, IL 61341	Arthur Titzel 2618 N. 3749th Road Sheridan, IL 60551
Russell Anderson 2620 N 3749th Rd Sheridan IL, 60551	Larry Bernabei 1289 N 2303 RD Ottawa IL, 61350	Janet Duszynski 7 N 143 Willow Roselle IL, 60172
	Greg Firrantello 367 Tyler Creek Court Yorkville, IL 60560	

KE Moe 1,6,7,9 and 10	**Judith Brown** **1005 Valley Ln** **Lockport, IL 60441**	6/15/2022 6/29/2024
The Farm II LLC **1208 Bellievue Dr** **Dekalb IL, 60115**	**Cary Liesser** **16420 US 52** **Newark IL 60541**	
Martin Myre **15665 Whitewillow Rd** **Newark, IL 60541**	**Mark Lotto** **16475 Stephens Rd** **Newark IL 60541**	**Brian Walker** **210 Geraldine CT** **Somonauk IL 60552**
	Kendall County Health Department 811 John Street Yorkville, IL 60560	
Bernard W **364 S Main St** **Oswego IL, 60543**	Tom Richards Highway Commissioner Big Grove 202 S. East Street Newark, IL 60541	**Wayne Withers** **9386 Taylor Rd** **Magnolia IL, 61336**
Joshua Condon **6217 Harrogate Dr** **Austin TX, 78759**		**Elizabeth Takiff Scheinfield** **PO Box 546** **Highland Park, IL, 60035**
	KE Moe 1,6,7,9,&10	

KE Moe 11
07-17-300-003

6/15/24

BARBARA TRUST VERCELLOTTI
1540 ROUTE 59
JOLIET, IL, 60431

Big Grove Township
406 E Franklin St,
Newark, IL 60541

Kendall County Health Department
811 John St,
Yorkville, IL 60560

FBO MATTHEW G MARKS EQUITY TRUST
D/B/A STERLING TRUST
14135 FENNEL RD
NEWARK, IL, 60541

CHRISTOPHER JAMES & JANELLE LEA
KREFTMEYER
8730 WILCOX CT
NEWARK, IL, 60541

JEREMY & BOBBIE JEAN JOHNSON
16501 INDIAN RD
NEWARK, IL, 60541

HTN3225
% CLAUDE W & DOLORES A AUSTIN
14598 FENNEL RD
NEWARK, IL, 60541

JOHN & MICHELLE STEWART
3870 N ILL RTE 71
SHERIDAN, IL, 60551

SUMMIT AG FUND III LLP
10640 HWY D20
ALDEN, IA, 50006

PATRICIA DAVIS BACK
88 OAKWOOD VILLAGE
FLANDERS, NJ, 07836

DUANE & ELLEN SARTOR TR
16970 FERN DELL RD
NEWARK, IL, 60541

Harold Moe 16276 County Line Rd Newark, IL 60541	**KE Johnson 1**	6/29/2024
	Gerald Vogen 17700 County Line Rd Newark, IL 60541	
Kendall County Health Department 811 John Street Yorkville, IL 60560		
HAROLD B MEM LAND TRUST MOE 415 WALNUT ST YORKVILLE, IL, 60560	% JOSHUA S CONDON CONDON FARMS INC 6217 HARROGATE DR AUSTIN, TX, 78759	MYRE, ARTHUR B JR 121 FOREST PARK RD OTTAWA IL 61350
WHALEN, JAMES A/BRENDA S 2997 N 37TH RD SENECA IL 61360	WOLDMAN/HERLIEN PARTNERSHIP PO BOX 3328 GLEN ELLYN IL 60138	NOORLAG, FREDERICK C 21 W 180 HILL AVE-1B GLEN ELLYN IL 60137

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 1600 wet tons
Years Applied 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0536

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Section 14 LS Firrantello 3

6.) Size of Area Where Lime is to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx 760 wet tons
Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0538

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Section 17 LS Firrantello 1

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx 588 wet tons
Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 5/21/24

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Road Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: LaSalle County, Section 17 LS Santoro 5

6.) Size of Area Where Lime is to be Used: 114 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent _____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied "no incorporation" to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss; as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

5/21/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township, Section 30 KE Moe 7

6.) Size of Area Where Lime is to be Used: 67 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 500 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0544

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. IL Route 71

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township KE Moe 11

6.) Size of Area Where Lime is to be Used: 63 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 900 wet tons
Years Applied 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0546

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3874 N. Rte 71 Sheridan, IL 60551

4.) Phone Number of User: 815.695-5667

5.) Location Where Sludge is to be Used: KE Johnson 1

6.) Size of Area Where Lime Residuals are to be Used: 236 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; Less then 6.5

15.) Limitations from Site Characteristics: None Observed, Small field entrance, broken tile in NE corner

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 760 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0548

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

September 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for August 2024. This report includes all land application work done by Stewart Spreading for August 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: August 2024

Billie M Marks

Name	Date	Telephone
	9/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
TCLP Herbicides Method 1311 **Method: 8321B**				
Analysis Date: 08/06/24				
Analyzed By: STERLIN				
2,4-D	< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)	< 0.5	0.5	mg/L	S
TCLP Metals Method 1311 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A **Method: 7470A**				
Analysis Date: 07/29/24				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
TCLP Extraction	Complete			
TCLP ZHE Preparation **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
ZHE Volatiles Extraction	Complete			
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 3.0	1.0	mg/kg	W
Barium	138	0.5	mg/kg	
→Cadmium	< 1.5	0.5	mg/kg	W
Chromium	12.0	0.5	mg/kg	
→Lead	< 1.5	0.5	mg/kg	W
Selenium	< 3.0	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W

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Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Analysis Date: 07/29/24 Analyzed By: KJM		Preparation Method 3050B Preparation Date: 07/29/24 Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 07/26/24 Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent Method: 3060A/7196A Analysis Date: 07/30/24 Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble Method: 5220D 2011 Analysis Date: 07/31/24 Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total Method: 2310B 2011 Analysis Date: 07/25/24 13:30 Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) Method: 2320B 2011 Analysis Date: 07/25/24 13:00 Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N
Calcium Carbonate Equivalent Method: EPA Analysis Date: 08/20/24 Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) Method: 350.1R2.0 Analysis Date: 08/05/24 Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N

LRM0552

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **August 2024**

Biosolids Field Record

Site: LS Hamman 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/23/2024	8/12/2024	City of Aurora - Lime	557.5	36.88	205.61
Total			557.50		205.61

Biosolids Field Record

Site: LS Stewart 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/19/2024	8/6/2024	City of Aurora - Lime	452.32	37.66	170.34
7/22/2024	8/6/2024	City of Aurora - Lime	309.26	46.25	143.03
7/23/2024	8/6/2024	City of Aurora - Lime	276.91	36.88	102.12
8/6/2024	8/6/2024	City of Aurora - Lime	325.75	33.86	110.30
Total			1364.24		525.80

Biosolids Field Record

Site: LS Bill Mitchell 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/1/2024	8/2/2024	City of Aurora - Lime	931.41	41.64	387.84
Total			931.41		387.84

Biosolids Field Record

Site: KE Moe 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	8/2/2024	City of Aurora - Lime	48.03	42.03	20.19
8/1/2024	8/2/2024	City of Aurora - Lime	138.9	41.64	57.84
Total			186.93		78.02

Biosolids Field Record

Site: KE Moe 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/2/2024	8/2/2024	City of Aurora - Lime	653	41.64	271.91
Total			653.00		271.91

Biosolids Field Record

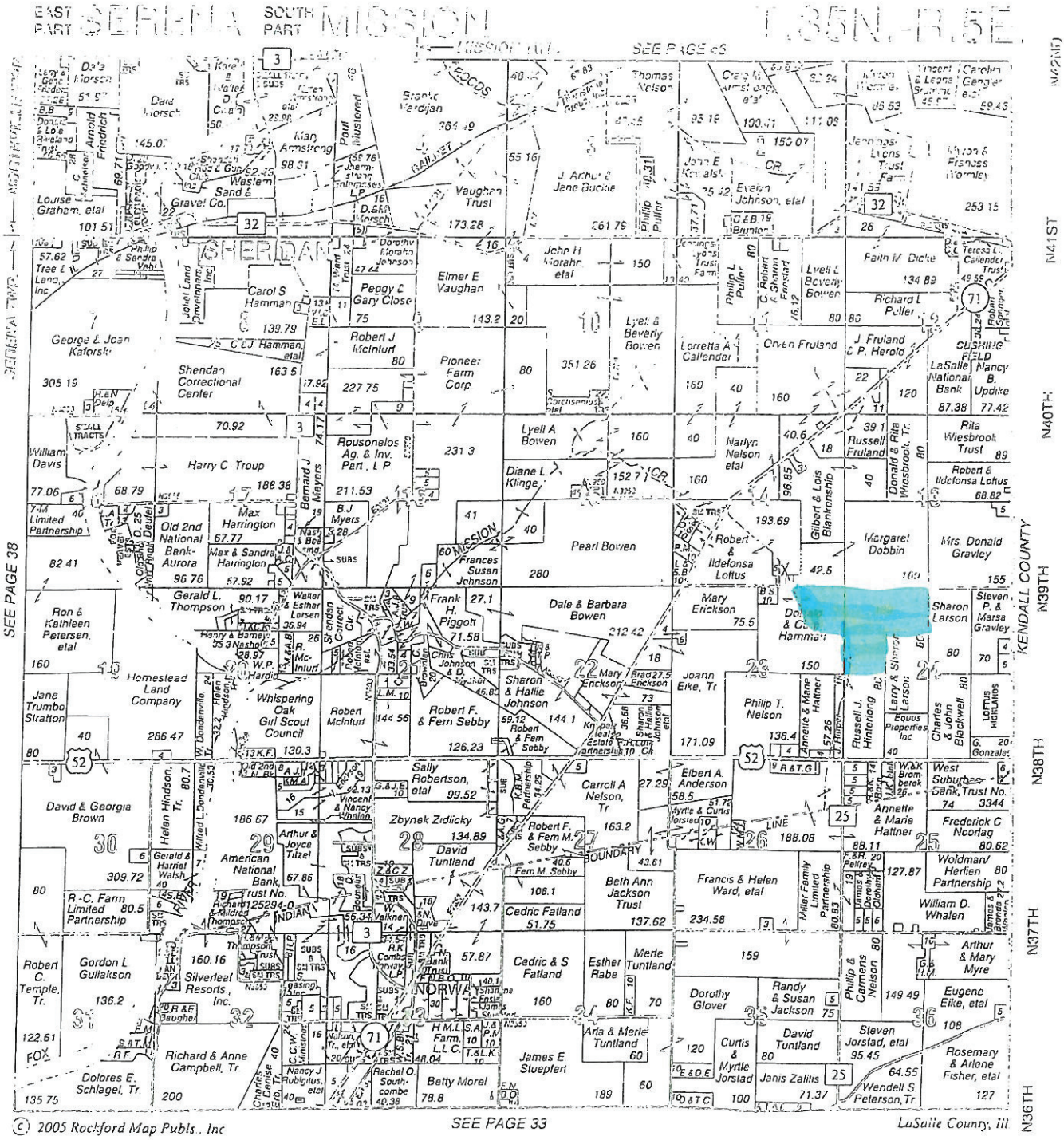
Site: LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/5/2024	8/6/2024	City of Aurora - Lime	968	41.64	403.08
8/5/2024	8/6/2024	City of Aurora - Lime	73.4	33.83	24.83
8/6/2024	8/6/2024	City of Aurora - Lime	94.12	33.86	31.87
Total			1135.52		459.78

PLAT MAP

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 Acres
LaSalle County
Mission Township
Section 24

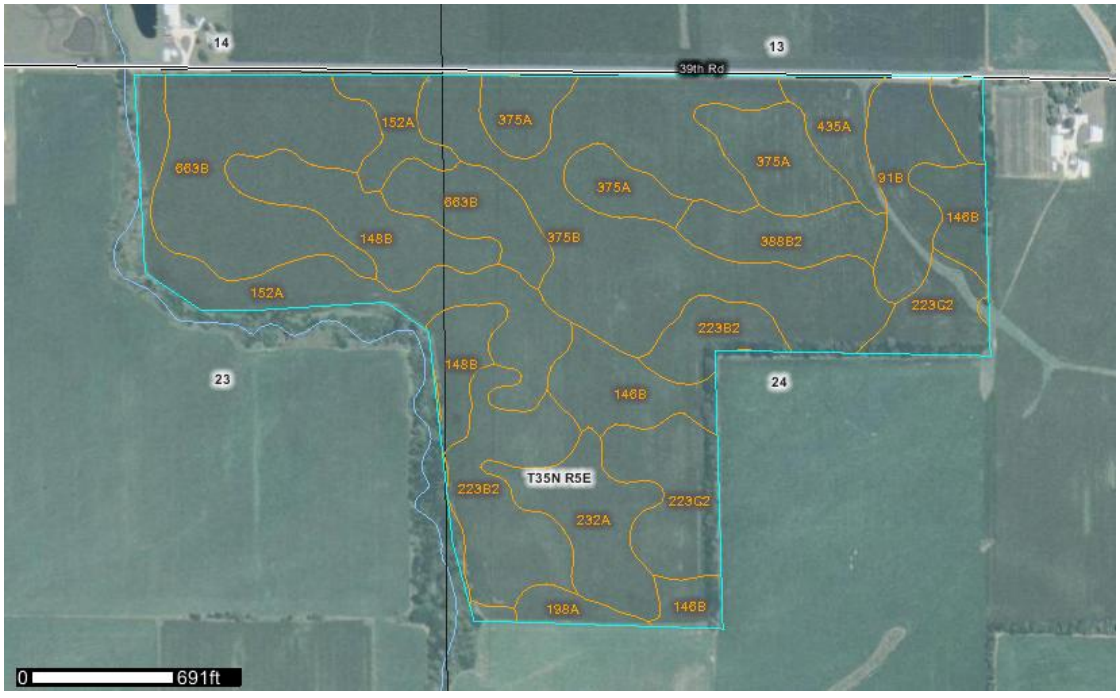

SOUTH PART MORTONVILLE
EAST PART SERENA
SOUTH PART MISSION
T.35N.-R.5E.
SEE PAGE 48
SHERIDAN
NORVAL
SEE PAGE 38
SEE PAGE 33
KENDALL COUNTY
N41ST
N40TH
N39TH
N38TH
N37TH
N36TH
E24TH
E25TH
E26TH
E27TH
E28TH
E29TH
E30TH
Hamman
Pearl Bowen
Dale & Barbara Bowen
Robert & Ildefonsa Loftus
Margaret Dobbin
Mrs Donald Gravley
Mary Erickson
Joann Eike, Tr
Philip T. Nelson
Sharon & Hallie Johnson
Robert F. & Fern Sebby
Frances Susan Johnson
Diane L Klinge
Lyell A Bowen
Rousonelos Ag. & Inv. Part., L.P.
Harry C Troup
Shendan Correctional Center
Robert J McInturf
Pioneer Farm Corp
Peggy & Gary Close
Elmer E Vaughan
Carol S Hamman
George & Joan Kaforski
Old 2nd National Bank-Aurora
Max Harrington
Max & Sandra Harrington
Gerald L. Thompson
Ron & Kathleen Petersen, etal
Homestead Land Company
Whispering Oak Girl Scout Council
Robert McInturf
Jane Trumbo Stratton
Sally Robertson, etal
Zbynek Zidlicky
David Tuntland
Carroll A Nelson, Tr
Elbert A. Anderson
Annette & Marie Hattner
Frederick C Noorlag
Woldman/Herlien Partnership
William D. Whalen
Francis & Helen Ward, etal
Beth Ann Jackson Trust
Cedric Fatland
Cedric & S Fatland
Esther Rabe
Merle Tuntland
Arthur & Joyce Titzel
American National Bank, Trust No. 125294-0
R.-C. Farm Limited Partnership
Robert C. Temple, Tr.
Gordon L Gullakson
Silverleaf Resorts, Inc.
Richard & Anne Campbell, Tr
Dolores E. Schlagel, Tr
Betty Morel
James E Stuepfert
Arla & Merle Tuntland
Dorothy Glover
Randy & Susan Jackson
Curtis & Myrtle Jorstad
David Tuntland
Steven Jorstad, etal
Rosemary & Arlene Fisher, etal
Wendell S Peterson, Tr
Janis Zaltis
Eugene Eike, etal
Arthur & Mary Myre
Phillip & Carmens Nelson
Miller Family Limited Partnership
Beth Ann Jackson Trust
Sharon Larson
Steven P. & Marsa Gravley
Charles & John Blackwell
Russell J. Hinterlong
Equus Properties Inc
Larry & Sharon Larson
Lorretta A Callender
Orven Fruland
J. Fruland & P. Herold
Lyell & Beverly Bowen
Richard L Puller
Faith M Dicke
LaSalle National Bank
Nancy B. Updike
Rita Wiesbrook Trust
Robert & Ildefonsa Lotus
Russell Fruland
Donald & Rita Wiesbrook, Tr.
Gilbert & Lois Blankenship
Narlyn Nelson etal
Diane L Klinge
Lyell A Bowen
Evelyn Johnson, etal
J Arthur & Jane Buckle
Vaughan Trust
Grants Verdijan
Thomas Nelson
Louise Graham, etal
Sand & Gravel Co.
Western
Alan Armstrong
Dale Morsch
Tree & Land, Inc
Dorothy Morahn Johnson
John H Morahn etal
Faith M Dicke
Richard L Puller
Lyell & Beverly Bowen
Orven Fruland
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SOIL SERIES

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 acres
LaSalle County
Mission Township
Section 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Swygert, 91B	SiCL	2-5 %	0.2-0.6 in/hr
Elliott, 146B	SiL	2-4 %	0.2-0.6 in/hr
Proctor, 148B	SiL	2-5%	0.2-0.6 in/hr
Drummer, 152A	SiL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiL	0-2 %	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4 %	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6 %	0.6-2.0 in/hr
Rutland, 375B	SiL	2-5 %	0.2-0.6 in/hr
Wenona, 388B2	SiCL	2-5 %	0.2-0.6 in/hr
Streator, 435A	SiCL	0-2 %	0.2-0.6 in/hr
Clare, 663B	SiL	2-5 %	0.2-0.6 in/hr
Blackberry, 679B	SiL	2-5 %	0.6-2.0 in/hr



METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 150
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: Spirit Farms/John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acre

Source of biosolids

1 Lasma-Lagoon 28
2 DuPage
3 Hasma
4 Lasma-Lagoon 29
5 Lasma-Lagoon 30
6 Egan
7 Lasma-Marathon
8 North Shore Sanitary District
9 Glenbard
10 Fox River Water Reclamation
11 Sheridan
12 Joliet West
13 Joliet East
14 Princeton
15 Marseilles
16 St. Charles
17 Wheaton
18 Huntley West
19 Bensenville
20 Geneva
21 Lasma cell 3
22 Aurora Lime
24 Huntley East
25 Hinckley
26 Plainfield
27 Naperville-Pile 2
28 Naperville-Pile 3
29 Quality Liquid Feeds
30 Lasma Lagoon 27
31 Glendale Heights
32 Village of Addison-Aer
33 Village of Addison-Ana

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**May 2010**	0.050	4.3600	6.590	0.460	1.190	9.350	0.12	0.01	0.09	0.16					4199.55	881.91
2	**May 2011**	0.010	6.570	3.840	0.180	0.330	6.990	0.04	0.01	0.08	0.11				1600		213.27
3	**May-11**	0.020	5.740	5.210	0.510	0.380	7.320	0.08	0.01	0.07	0.06					2269.21	462.92
4	**May-11**	0.01	1.16	1.30	0.11	0.25	2.11	0.12	0.00	0.02	0.03					619.78	146.89
5	**March2012**	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4486.99	1202.51
6	**October 2012**	0	0.58	0.54	0.05	0.03	0.72	0.01	0	0	0.01					67.71	16.79
5	**October 2012**	0.01	1.05	1.09	0.09	0.24	1.93	0.02	0	0.01	0.02					929.68	209.18
6	**Nov. 2012**	0	0.53	0.44	0.04	0.02	0.63	0.01	0	0	0.01					206.22	44.73
5	**December 2012**	0	0.6	0.62	0.05	0.14	1.1	0.01	0	0.01	0.01					525.99	118.35
7	**December 2012**	0.04	3.74	4.26	0.38	1.16	7.53	0.07	0.01	0.05	0.09					1565.85	735.95
3	**December 2012**	0	0.53	0.45	0.05	0.03	0.63	0.01	0	0	0.01					166.67	36.31739
2	**March 2013**	0	0.49	0.22	0.01	0.03	0.53	0	0	0	0.01				175		22.43483
2	**January 2014**	0	0.47	0.14	0.01	0.02	0.56	0	0	0	0.01				250		30.6489
8	**January 2014**	0.01	14.97	28.77	0.67	0.88	19.8	0.42	0.02	0	0					129.15	122.6925
2	**Febuary 2014**	0	0.92	0.27	0.02	0.05	1.1	0	0	0.01	0.01				725		73.56
2	**March 2014**	0	0.66	0.35	0.02	0.03	0.78	0	0	0	0.01				450		59.26
9	**Nov 2014**	0.01	4.45	1.35	0.1	0.18	5.11	0.0182	0.001	0.01	0				56		7.89
10	**Jan-15**	0.02	3.16	1.83	0.14	0.11	2.74	0.01	0.00	0.02	0.08	0.0085				120.11	15.73
9	**Feb-15**	0.00	0.38	0.09	0.01	0.01	0.12	0.00	0.00	0.00	0.00						
10	**Feb-15**	0.00	0.26	0.11	0.01	0.01	0.23	0.00	0.00	0.00	0.01	0.0004				293.82	35.55
14	**Feb-15**	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03				378		87.43
10	**Mar-15**	0.00	0.32	0.10	0.02	0.01	0.27	0.00	0.00	0.00	0.01						
9	**March 2015**	0	0.33	0.07	0.01	0.01	0.35	0.001	0.001	0	0					360.00	83.27
11	**Mar-15**	0.00	2.51	2.21	0.09	0.08	2.50	0.00	0.00	0.06	0.04						
10	**Apr-15**	0.02	2.51	0.78	0.13	0.08	2.05	0.01	0.00	0.02	0.05						
12	**Apr-15**	0.00	0.77	3.24	0.01	0.01	0.33	0.00	0.00	0.00	0.01						
13	**May-15**	1.00	5.18	18.68	0.44	0.26	1.06	1.00	0.01	0.01	0.04						
14	Nov-15	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03	0.002				629.48	104.49
10	Jan-16	0.01	0.98	0.78	0.05	0.03	0.82	0.00	0.00	0.01	0.02	0.001			162		44.7
11	Jan-16	0.28	0.18	0.13	0.01	0.01	0.18	0.00	0.00	0.01	0.00	0.013			281		128.83
15	Jan-16	0.00	0.92	4.99	0.04	0.09	1.03	0.01	0.00	0.02	0.01	0.004			75		15.13
16	Feb-16	0.00	0.07	0.34	0.01	0.00	0.11	0.00	0.00	0.00	0.00	0.029					
10	Apr-16	0.00	0.24	0.20	0.01	0.01	0.20	0.00	0.00	0.00	0.00	0.000				167.21	26.92
17	Apr-16	0.00	0.42	0.31	0.02	0.02	0.60	0.00	0.00	0.00	0.00				134		31.4
18	Apr-16	0.00	0.86	0.16	0.01	0.01	0.38	0.01	0.00	0.01	0.01	0.017			574		82.85
9	Apr-16	0.00	0.45	0.11	0.01	0.02	0.41	0.00	0.00	0.01	0.00				400		54.68
19	Apr-16	0.00	0.55	0.30	0.02	0.05	0.39	0.00	0.00	0.00	0.01				406		87.9
13	Jun-16	0.00	1.40	6.97	0.08	0.06	0.42	0.00	0.00	0.01	0.02	0.010			1120		133.12
20	Jun-16	0.00	0.43	0.67	0.02	0.02	0.84	0.01	0.00	0.01	0.01	0.009			552		95.04
2	Mar-17	0.00	0.44	0.42	0.01	0.02	0.57	0.00	0.00	0.00	0.01				250		32.05
2	Apr-17	0.00	2.51	2.37	0.07	0.10	3.06	0.02	0.00	0.02	0.04				1825		240.16
2	May-17	0.00	2.10	1.98	0.06	0.08	2.56	0.02	0.00	0.02	0.03				1450		190.81
2	Jun-17	0.00	1.01	1.07	0.05	0.04	1.21	0.01	0.00	0.01	0.02				750		103.79
21	Jun-18	0.06	6.48	6.28	0.64	1.33	12.41	0.15	0.01	0.07	0.17					2520.44	1076.23
22	Jun-18	0.01	0.037	0.49	0.032	0.006	0.094	0.00	0.00	0.00	0.00	0.007	5.5 pci/g			1035.86	382.3
18	Jul-18	0.01	0.900	0.16	0.010	0.010	0.430	0.01	0.00	0.01	0.01	0.010			554		56.44
24	Jul-18	0.00	0.210	0.06	0.280	0.270	0.000	0.32	0.02	0.00	0.00	0.010			100		11.04
11	Apr-19	0.00	0.080	0.07	0.000	0.000	0.080	0.00	0.00	0.00	0.00	0.003			125		28.76
25	Apr-19	0.00	0.140	0.01	0.000	0.000	0.060	0.00	0.00	0.00	0.00	0.000			106		10.44
22	Apr-19	0.00	0.020	0.35	0.019	0.002	0.048	0.00	0.00	0.00	0.00	0.007	7 pci/g		520.3		288.25
26	May-19	0.01	2.220	1.37	0.100	0.040	3.260	0.01	0.00	0.04	0.07				4287		545.95
26	Dec-19	0.07	0.320	0.21	0.020	0.010	0.400	0.00	0.00	0.01	0.01				800		109.28
2	Jan-20	0.00	1.130	0.66	0.060	0.060	1.500	0.01	0.00	0.01	0.02				875		115.15
2	Feb-20	0.00	1.340	0.95	0.040	0.050	1.830	0.02	0.00	0.02	0.03				1100		143.82
2	Mar-20	0.00	0.760	0.54	0.020	0.030	1.030	0.01	0.00	0.01	0.02				550		71.91
2	Apr-20	0.00	1.510	1.03	0.040	0.050	1.990	0.02	0.00	0.02	0.03				1150		150.36
27	Mar-21	0.02	2.670	1.44	0.080	0.050	3.880	0.04	0.01	0.04	0.04				3217		516.2
28	Mar-21	0.00	1.380	0.70	0.040	0.020	1.800	0.01	0.00	0.01	0.00				1441		222.66
2	Apr-21	0.00	0.110	0.06	0.000	0.000	0.140	0.00	0.00	0.00	0.00				75		9.3
1	Jul-21	0.01	1.390	1.60	0.140	0.190	2.360	0.04	0.00	0.03	0.05					1296.66	254.15
7	Sep-21	0.04	6.120	6.66	0.590	1.380	11.940	0.15	0.01	0.15	0.21					3298.81	1098.5
22	Sep-21	0.00	0.006	0.15	0.005	0.001	0.014	0.00	0.00	0.00	0.00	0.001				231.58	73.87
2	Jul-22	0.00	1.570	1.12	0.090	0.060	1.930	0.02	0.00	0.02	0.03				1200		170.14
1	Jul-22	0.03	2.850	3.27	0.290	0.500	5.130	0.08	0.00	0.08	0.11					2852.08	590.38
22	Jul-22	0.002	0.032	0.356	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006				808.36	332.69
29	Jul-22	0.000	0.000	0.000	0.000	0.000	0.490	0.000	0.000	0.000	0.000			120761		808.36	332.69
20	Sep-22	0.002	0.380	0.150	0.020	0.010	0.700	0.000	0.000	0.000	0.010	0.003			280		51.85
1	Sep-22	0.020	1.400	1.540	0.130	0.270	2.770	0.020	0.000	0.030	0.050					1089.59	240.8
1	Apr-23	0.050	4.260	4.770	0.420	0.820	8.300	0.100	0.000	0.100	0.110					3460.25	757.79
22	Jul-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			355.47	144.9
1	Aug.23	0.010	1.610	1.480	0.150	0.210	3.010	0.040	0.000	0.040	0.070					1223.73	255.76
30	Oct-23	0.080	4.640	9.080	.4+6	0.980	9.400	0.110	0.010	0.110	0.160					3472.51	840.35
31	Jul-24	0.000	0.040	0.030	0.000	0.000	0.110	0.000	0.000	0.000	0.000				40		5.5
32	Jul-24	0.000	0.010	0.030	0.000	0.000	0.010	0.000	0.000	0.000	0.000				25		3.17
33	Jul-24	0.000	0.140	0.040	0.010	0.010	0.210	0.000	0.000	0.000	0.000				75		13.8
2	Jul-24	0.000	0.570	0.390	0.020	0.020	0.740	0.010	0.000	0.010	0.010				700		90.33
31	Aug-24	0.000	0.080	0.050	0.010	0.000	0.190	0.000	0.000	0.000	0.000				80		11
30	Aug-24	0.020	3.970	4.470	0.370	0.830	8.590	0.100	0.000	0.100	0.140					3660.8	735.82
22	Aug-24	0.004	0.054	0.353	0.024	0.004	0.070	0.000	0.000	0.000	0.000	0.009	12.3 pci/g			557.5	205.61
1	Sep-24	0.000	0.440	0.530	0.040	0.090	0.920	0.010	0.000	0.010	0.010					357.94	78.03
	TOTAL	2.018	130.583	456.943	8.492	15.336	188.335	3.468	0.160	1.611	2.655	0.1537					

%of LIMIT	20.2	52.2	50.8	8.5	1.5	37.7	3.5	0	20.1	16.5	0.000	pci/g
						1	Background Radium				1.560	pci/g
						2	Site Limit				2.560	pci/g
						3	Cumulative total to Date				1.71	%
						4	% of Total Cumulative Limit				66.79	%

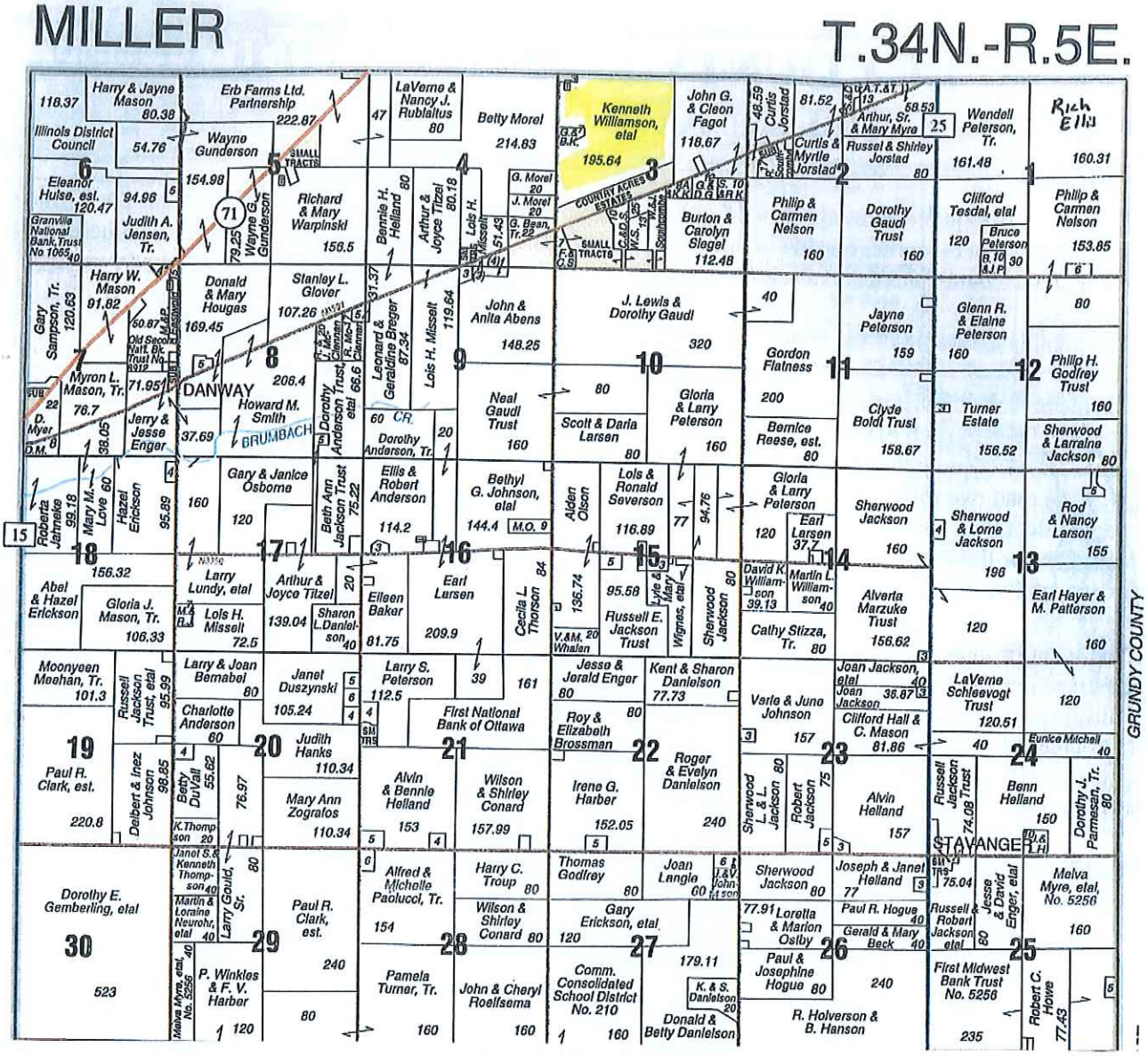
1 Background Radium determined from soil test results

2 Radium Concentration in soil can not exceed this limit

Macronutrients in pounds per acre		Available Nitrogen in Subsequent Years
		---
Plant Available Nitrogen (PAN):	233	38 lbs. for year 2
Total Phosphorus as P2O5 (organic):	699	17 lbs. for year 3
Potassium as K2O:	46	8 lbs. for year 4
		4 lbs. for year 5

John Stewart
3870 N. Route 71
Sheridan, IL 60551
815-695-5667

Stewart 3
190 Acres
LaSalle County
Miller Township
Section 3 T.34N,R.5 E.



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 3
190 acres
LaSalle County
Miller Township
Section 3

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiL	4-6%	0.6-2.0 in/hr
Varna, 223D3	SiL	4-6%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Symerton, 294B	SiL	2-5%	0.6-2.0 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr
Graymont, 541B	SiL	2-5%	0.6-2.0 in/hr
Chenoa, 614B	SiCL	0-2%	0.6-2.0 in/hr



METAL LOADING RECORD

SITE NUMBER:	LS Stewart 3	COUNTY:	LaSalle
ACREAGE:	190	TOWNSHIP:	Miller
		SECTION:	3
FARMER:	John Stewart		
ADDRESS:	3870 North Route 71		
	Sheridan, IL 60551		
PHONE #:	815-695-1460		

Source of biosolids

1 Egan Water Reclamation Plant
2 LASMA - Lagoon #28
3 LASMA - Lagoon #29
4 LASMA - Lagoon #30
5 LASMA - Marathon
6 Aurora - Lime
7 Princeton Biosolids
8 Glenbard
9 LASMA-Lagoon #27

Metal Loadings in Pounds per Acre

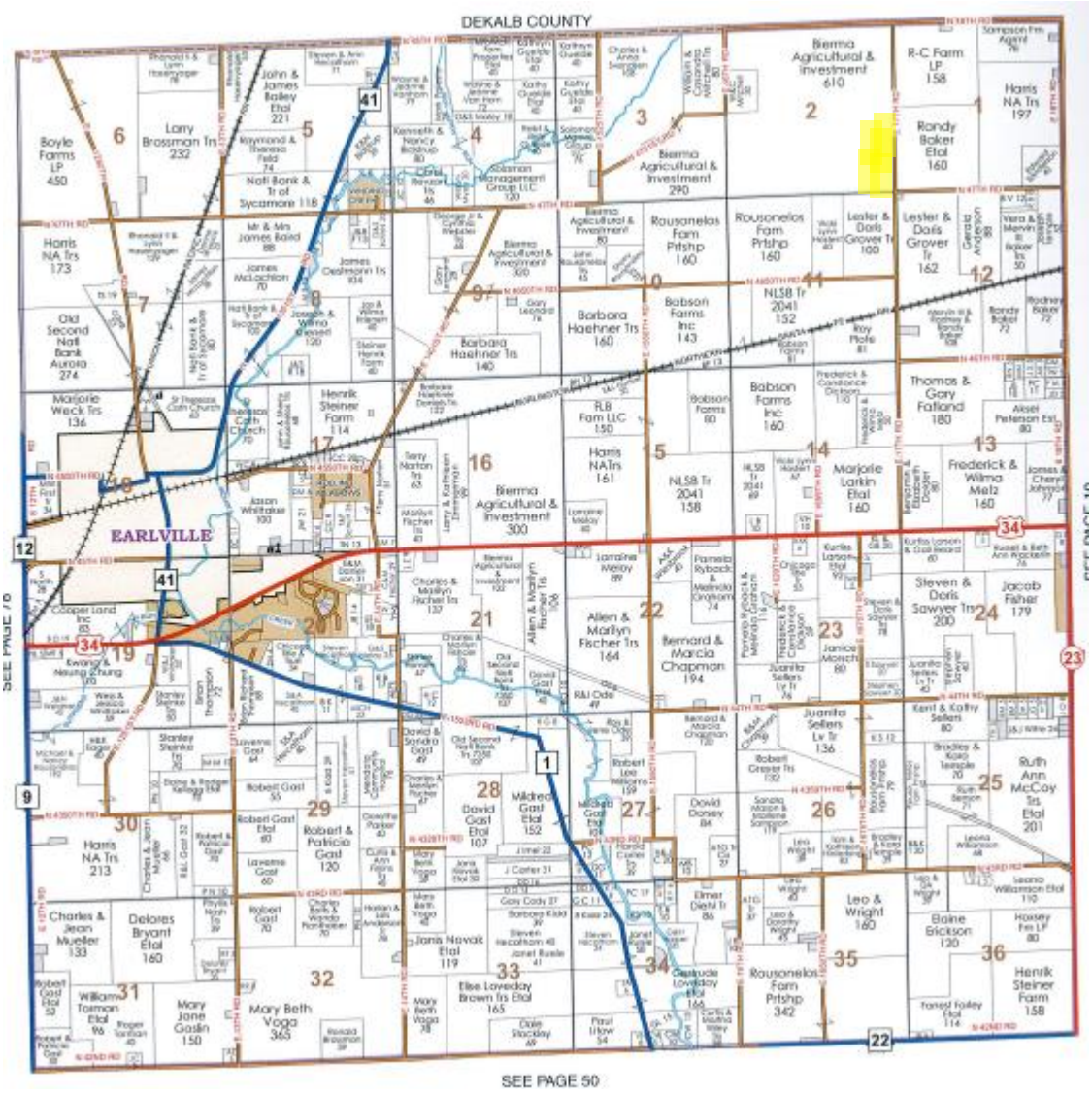
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Nov. 08	0.03	6.44	8.22	0.5	0.5	9.22	0.01	0.02	0.01	0.18		
2	Nov. 08	0.01	1.27	1.64	0.14	0.39	2.67	0.04	0	0.08	0.04		
1	May 09	0.03	4.49	6.63	0.38	0.3	5.93	0.05	0	0.01	0.07		
3	May 09	0.04	5.79	9.52	0.59	1.78	12.9	0.16	0.01	0.16	0.21		
3	Dec 09	0.04	4.26	8.24	0.51	1.23	8.41	0.13	0.01	0.1	0.15		
3	Nov. 10	0.04	6.36	7.63	0.52	1.91	10.93	0.14	0.02	0.06	0.16		
4	Mar. 2012	0.06	5.63	260.55	0.56	1.61	11.29	0.14	0.02	0.07	0.23		
5	Oct. 2012	0.03	2.49	2.84	0.26	0.77	5.01	0.04	0.01	0.03	0.06		
6	11/24/2012	0.000	0.024	0.656	0.026	0.007	0.163	0.000	0.000	0.000	0	0.010	pci/g
5	Nov. 2012	0.060	5.600	6.390	0.570	1.740	11.290	0.100	0.020	0.070	0.130		
7	Apr-14	0.02	0.08	0.50	0.08	0.10	1.31	0.05	0.00	0.08	0.02		
8	May-14	0.00	0.50	0.10	0.01	0.01	0.49	0.00	0.00	0.00	0.01		
9	May-14	0.00	0.45	0.30	0.01	0.02	0.47	0.00	0.00	0.00	0.01		
2	Jun-16	0.07	6.25	6.26	0.58	1.17	10.92	0.07	0.01	0.07	0.28		
2	Nov-16	0.06	6.14	4.92	0.68	1.78	13.10	0.09	0.01	0.07	0.14		
3	Dec-17	0.03	4.42	5.88	0.48	1.01	8.53	0.10	0.00	0.05	0.03		
5	Dec-17	0.01	0.74	0.73	0.07	0.17	1.45	0.01	0.00	0.01	0.00		
6	Dec-17	0.01	0.03	0.44	0.029	0.01	0.09	0.00	0.00	0.00	0.00	0.006	5.5 pci/g
2	Jul-20	0.01	1.90	2.65	0.180	0.37	3.43	0.04	0.00	0.02	0.07		
2	Aug-20	0.03	4.34	6.05	0.410	0.85	7.82	0.08	0.00	0.05	0.15		
6	Aug-20	0.01	0.05	0.67	0.038	0.00	0.09	0.00	0.00	0.00	0.00	0.006	4.1 pci/g
3	Sep-21	0.04	6.14	7.76	0.550	1.05	10.75	0.14	0.00	0.14	0.19		
2	Sep-21	0.00	0.11	0.13	0.010	0.02	0.22	0.00	0.00	0.00	0.00		
6	Sep-21	0.00	0.01	0.29	0.010	0.00	0.03	0.00	0.00	0.00	0.00	0.002	3.57 pci/g
2	Jul-22	0.03	2.33	2.67	0.240	0.41	4.19	0.06	0.00	0.06	0.09		
9	Jul-22	0.02	2.68	3.17	0.290	0.52	5.18	0.08	0.00	0.08	0.08		
6	Jul-22	0.004	0.053	0.581	0.025	0.004	0.086	0.000	0.000	0.000	0.000	0.010	5.38 pci/g
9	Oct-23	0.080	4.810	9.410	0.470	1.010	9.740	0.120	0.010	0.120	0.160		
2	Oct-23	0.010	1.060	1.180	0.100	0.270	2.250	0.010	0.000	0.030	0.040		
2	Aug-24	0.020	4.500	5.460	0.400	0.920	9.390	0.110	0.000	0.110	0.150		
9	Aug-24	0.010	1.920	2.160	0.180	0.400	4.150	0.050	0.000	0.050	0.070		
6	Aug-24	0.008	0.108	0.706	0.049	0.008	0.141	0.000	0.000	0.000	0.000	0.018	12.3 pci/g
	TOTAL	0.817	90.984	374.338	8.947	20.340	171.631	1.820	0.141	1.530	2.720	0.052	pci/g
	%of LIMIT	8.2	36.4	41.6	8.9	2	34.3	1.8	2	19.1	16.9		

1	Background Radium	1.180	pci/g
2	Site Limit	2.180	pci/g
3	Cumulative Total to Date	1.232	pci/g
4	% of Total Cumulative Limit	56.51	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Bill Mitchell

LS Bill Mitchell 1
80 acres
LaSalle County
Earl Township
Section 2



Bill Mitchell

LS Bill Mitchell 1
80 acres
LaSalle County
Earl Township
Section 2

60C2	La Rose loam, 5 to 10 percent slopes, eroded	1.5	2.0%	0.20 to 0.60 in/hr
60D2	La Rose loam, 10 to 18 percent slopes, eroded	5.1	6.7%	0.20 to 0.60 in/hr
67A	Harpster silty clay loam, 0 to 2 percent slopes	15.9	21.1%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	28.9	38.5%	0.60 to 2.00 in/hr
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	6.8	9.1%	0.60 to 2.00 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	16.2	21.5%	0.06 to 0.20 in/hr
814A	Muscatune-Buckhart silt loams, 0 to 3 percent slopes	0.8	1.0%	0.60 to 2.00 in/hr.



METAL LOADING RECORD

SITE NUMBER:	LS Bill Mitchell 1	COUNTY:	LaSalle
ACREAGE:	80	TOWNSHIP:	Earl
		SECTION:	2
FARMER:	Bill Mitchell		
ADDRESS:	4762 E 16th Rd		
	815-739-1317		

Metal Loadings in Pounds per Acr

	Source of biosolids
1	Aurora Lime
2	
3	
4	
5	
6	

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	July-22	0.005	0.074	0.818	0.035	0.005	0.121	0	0	0	0	0.014	5.38 pci/g
1	Aug.24	0.014	0.185	1.21	0.084	0.014	0.241	0	0	0	0	0.030	12.3 pci/g
	TOTAL	0.02	0.26	2.03	0.12	0.02	0.36	0	0	0	0	0.044	pci/g
	%of LIMIT	0.2	0.1	0.2	0.1	0	0.1	0	0	0	0		

1	Background Radium	1.730	pci/g
2	Site Limit	2.730	pci/g
3	Cumulative Total to Date	1.774	pci/g
4	% of Total Cumulative Limit	64.98	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

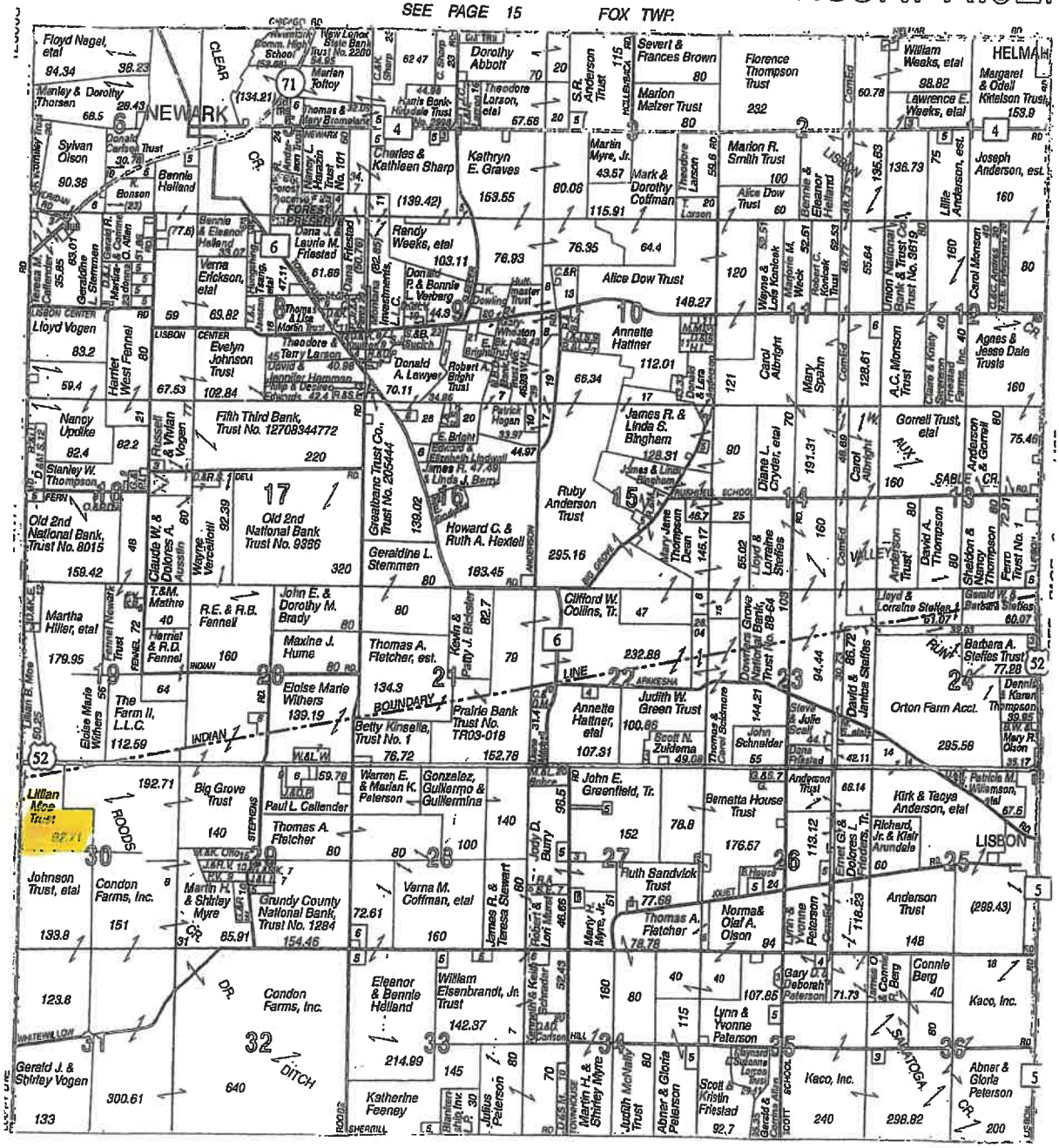
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 6
35 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.



SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 6
35 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Varna, 223 B	SiL	2-4%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Strawn, 224C2	SiL	6-12%
Elpaso, 356A	SiCL	0-2%
Graymont, 541B	SiL	2-5%
Chenoa, 614A	SiCL	0-2%



METAL LOADING RECORD

SITE NUMBER: 6
ACREAGE: 35
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 30

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
630-553-2798

Source of biosolids

1 DuPage
2 Plainfield
3 Lasma Lagoon 29
4 Wheaton
5 Marseilles
6 Hinckley
7 Sheridan
8 Deerfield
9 Lasma Lagoon 28
10 Aurora Lime
11 Glendale Heights

Metal Loadings in Pounds per Ac

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June-12	0.01	7.14	5.06	0.18	0.37	8.27	0.04	0.01	0.07	0.12		
2	9/15/2015	0.05	3.55	1.31	0.13	0.08	3.86	0.05	0.004	0.1	0.08		
3	Aug-18	0.08	8.22	9.37	0.91	1.9	16.89	0.21	0.01	0.21	0.29		
4	May-20	0.01	7.4	7.55	0.23	0.32	9.65	0.04	0.01	0.07	0.2		
5	May-20	0.01	2.99	22.18	0.04	0.26	3.23	0.02	0	0.05	0.04	0.024	
6	May-20	0	1.02	0.16	0.01	0.02	0.55	0.01	0	0.01	0	0.013	
7	May-20	0	0.57	0.53	0.02	0.02	0.57	0.01	0	0.02	0.01	0.010	
8	May-20	0.01	6.71	8.63	0.17	0.17	4.25	0.04	0.01	0.05	0.07		
9	Jul-22	0.03	2.46	2.82	0.25	0.43	4.43	0.07	0	0.07	0.09		
3	Jul-22	0.06	6.51	7.96	0.58	1.12	11.21	0.16	0.01	0.16	0.19		
10	Jul-22	0.005	0.08	0.876	0.037	0.005	0.13	0	0	0	0	0.015	5.38 pci/g
9	Jul-24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21		
11	Aug-24	0	0.11	0.07	0.01	0	0.27	0	0	0	0		
10	Aug-24	0.007	0.085	0.554	0.038	0.007	0.11	0	0	0	0	0.014	12.3 pci/g
	TOTAL	0.33	52.56	73.65	3.15	5.65	74.80	0.81	0.06	0.95	1.30	0.076	pci/g
	%of LIMIT	3.3	21	8.2	3.2	0.6	15	0.8	0.1	11.9	8.1		

1	Background Radium	1.320	pci/g
2	Site Limit	2.320	pci/g
3	Cumulative Total to Date	1.396	pci/g
4	% of Total Cumulative Limit	60.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

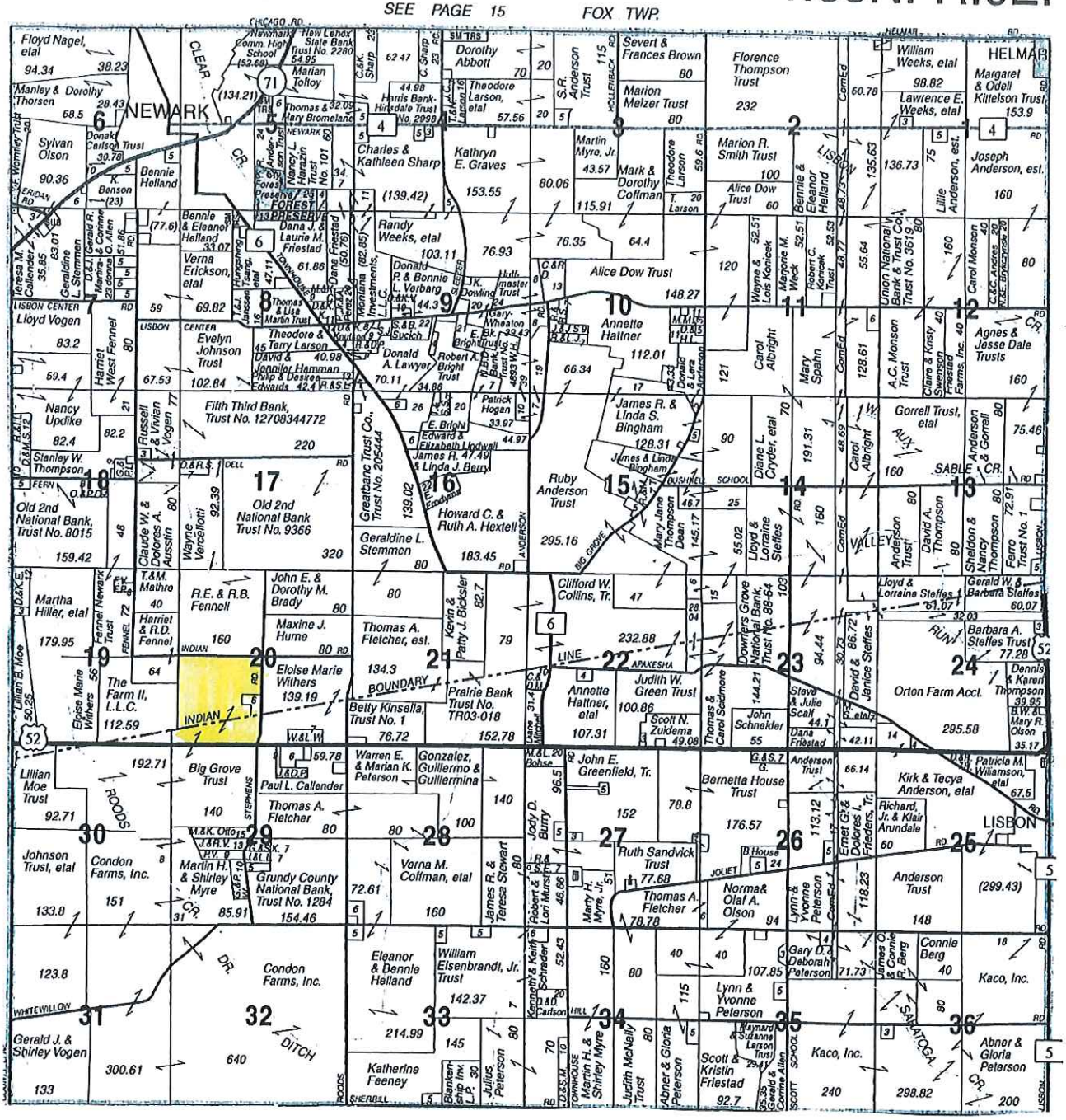
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

BIG GROVE

T.35N.-R.6E.



LRM0569

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

SOIL SERIES	TEXTURE	% SLOPE
Lisbon, 59A	SiL	0-2%
La Rose, 60B2	SiL	2-5%
La Rose, 60C2	SiL	5-10%
La Rose, 60C3	CL	5-10%
Saybrook, 145B	SiL	2-5%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Peotone, 330A	SiCL	0-2%
Elpaso, 356A	SiCL	0-2%



METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 134
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 20

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Source of biosolids
1 LASMA - Lagoon #27
2 LASMA - Lagoon # 30
3 LASMA - Lagoon #28
4 DuPage
5 LASMA-Lagoon 29
6 LASMA Cell 4 and 5
7 Lasma Cell 1
8 Aurora Lime
9 Romeoville
10 Calumet W3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	Dec. 2011	0.02	2.56	3.35	0.24	0.72	4.98	0.06	0.01	0.03	0.05					1367.76	440.42	
2	Mar. 2012	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4249.86	1138.96	
2	October 2012	0.02	2.55	2.65	0.23	0.59	4.69	0.05	0.01	0.03	0.06					1962.82	441.63	
3	October 2012	0.02	1.87	2.13	0.19	0.5	3.67	0.03	0	0.03	0.04					1400.37	365.5	
4	July 2013	0.02	9.79	5.89	0.38	0.46	10.93	0.06	0.02	0.09	0.16					1400 cy.	195.05	Wheat (31 acres)
3	Aug-16	0.03	2.87	2.88	0.27	0.54	5.02	0.03	0	0.03	0.13					2006.15	441.35	
5	Nov-16	0.02	2.12	1.58	0.21	0.48	4.35	0.03	0.01	0.03	0.16					1595.98	341.54	
6	Aug-17	0.06	5.29	5.99	0.53	1.4	10.99	0.1	0.01	0.06	0.08					1959.99	784.00	
5	18-Aug	0.03	3.18	3.63	0.35	0.73	6.54	0.08	0.01	0.08	0.11					2205.19	545.78	
7	Jul-19	0.08	6.75	6.15	0.81	0.34	7.43	0.08	0.01	0.06	0.1					2419.97	784.07	
3	Jul-22	0.03	2.85	3.27	0.29	0.5	5.13	0.08	0	0.08	0.11					2460.99	509.42	
3	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					2245.53	750.01	
8	Jul-23	0.003	0.038	0.417	0.018	0.003	0.062	0.000	0.000	0.000	0.000	0.007	5.38 pci/g			911.87	343.6	
9	Aug-24	0.000	0.150	0.090	0.010	0.000	0.190	0.000	0.000	0.190	0.000	0.000			134		21.39	
10	Aug-24	0	0.33	0.93	0.03	0.06	0.84	0.01	0	0.01	0.02					174.35	60.85	
3	Aug-24	0.01	2.76	3.35	0.25	0.56	5.76	0.07	0	0.07	0.09					2193.15	478.11	
8	Aug-24	0.006	0.077	0.504	0.035	0.006	0.1	0	0	0	0	0.013	12.3 pci/g			653.00	271.91	
	TOTAL	0.47	54.97	351.34	5.04	9.81	94.62	0.95	0.11	0.98	1.56	0.0200						
	%of LIMIT	4.7	22	39	5	1	18.9	1	0.1	12.3	9.7							

Background Radium	1.590	pci/g
Site Limit	3.000	pci/g
Cumulative total to Date	1.610	pci/g
% of Total Cumulative Limit	53.67	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart

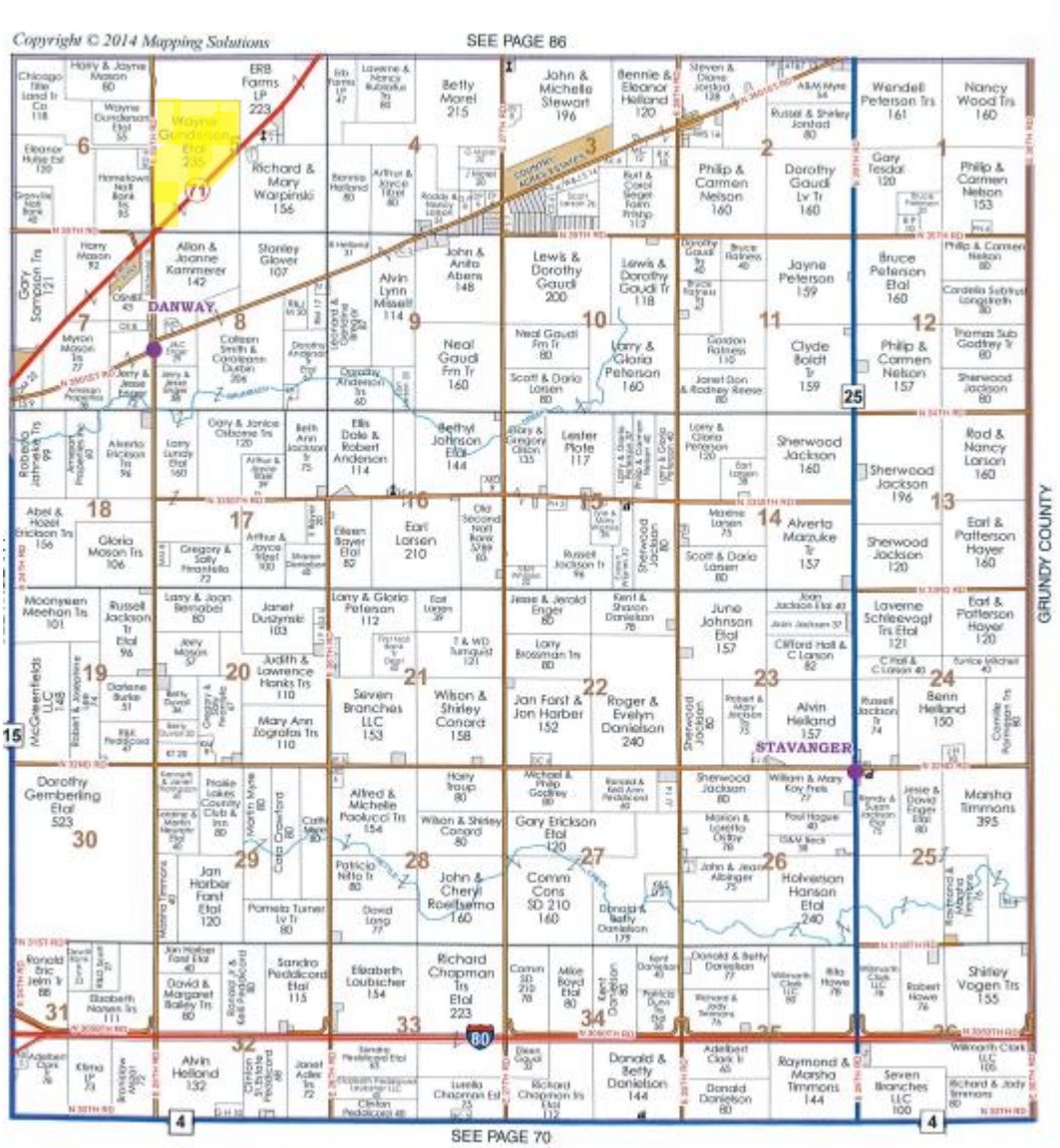
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 27
3 Marathon Lag 25 w/cells 2, 3, 4
4 DuPage
5 Lasma Lagoon 28
6 Glendale Height

Metal Loadings in Pounds per Ac

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
2	May-23	0.030	4.940	6.370	0.530	0.990	9.820	0.030	0.010	0.110	0.160					2867.02	733.96
3	May-23	0.030	4.390	6.190	0.380	0.850	7.450	0.030	0.010	0.090	0.120					2073.1	611.56
4	May-23	0.000	0.190	0.090	0.010	0.010	0.220	0.000	0.000	0.000	0.000					150	18.85
5	Oct-23	0.040	6.220	6.880	0.600	1.560	13.140	0.040	0.010	0.150	0.250					3920.49	987.96
2	Jul-24	0.020	3.000	3.500	0.280	0.580	6.150	0.080	0.000	0.080	0.100					2489.43	517.8
1	Jul-24	0.002	0.022	0.141	0.010	0.002	0.028	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			209.94	74.91
6	Aug-24	0.000	0.020	0.010	0.000	0.000	0.050	0.000	0.000	0.000	0.000				20		2.75
5	Aug-24	0.020	3.050	3.700	0.270	0.620	6.360	0.080	0.000	0.080	0.100					2456.63	535.55
1	Aug-24	0.010	0.124	0.806	0.056	0.010	0.161	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			1135.52	459.78
	TOTAL	0.16	22.02	28.4	2.17	4.63	43.49	0.26	0.03	0.51	0.73	0.036	pci/g				
	%of LIMIT	1.6	8.8	3.2	2.2	0.5	8.7	0.3	0.1	6.4	4.5						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.556	pci/g
4	% of Total Cumulative Limit	61.75	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0575

Sharon M Larson
2956 N 39th Rd
Sheridan, IL 60551

Donald J Hamman
13351 Faxon Rd
Plano, IL 60545

Donald B Harper Jr
2885 E IL Rt 52
Sheridan, IL 60551

LaSalle County Health Dept
717 E Etna Rd,
Ottawa, IL 61350

Kelaka LLC
181 S Lincolnway
North Aurora IL, 60542

Debra Spradling
3945 E 30th rd
Newark IL 60541

Annette Hattner
25421 N 3000Th Ave
Prophetstown IL 61277

Stan Albright
2861 N 39th Rd
Sheridan IL 60551

LS Hamman 5

LaSalle County Health Dept.
717 E Etna Rd,
Ottawa, IL 61350

10-24-111-000

10-23-210-000

Sent 6.29.2024

Mission
Ken Thompson
325 S. Dwight St
PO Box 292
Sheridan, IL 60551

Sent 6/29/2024	**LS Sewart 3**	**MILLER** STUART ANDERSON 3338 E.28TH ROAD MARSEILLES, IL 61341
James Stuepfert 3626 E. 27 th Rd. Sheridan, IL 60551	Betty Morel 3605 E. 27 th Rd. Sheridan. IL 60551	**LaSalle County Health Department** **717 E Etna Rd** **Ottawa, IL 61350**
NOORLAG REAL ESTATE GROUP LLC 22W364 MCCARRON RD GLEN ELLYN IL 60137	KARL NOREM 514 WEST VAN BUREN OTTAWA IL 61350	TRUST #2318 3625 E 2631ST RD SHERIDAN IL 60551
STUEPFERT, JAMES E 3626 E 27TH RD SHERIDAN IL 60551	HELLAND, BENNIE H TTEE 2027 OAK FOREST DR MORRIS IL 60450	GERSBACH, GUNTER-BARBARA 2751 N 3501ST RD SENECA IL 61360
EBERHARD, CHARLES A 2757 N 3501ST RD SENECA IL 61360	LARSON, SCOTT 2718 N 3501ST ROAD SENECA IL 61360	LYONS, JOHN R-MARY J 2743 N 3501ST RD SENECA IL 61360
SMITH, CECIL/ DEBORAH 2731 N 3501ST RD SENECA IL 61360	PACHTER, ROGER 2729 N 3501ST RD SENECA IL 61360	HENDRICKSON, DONALD / MARY 2725 N 3501ST RD SENECA IL 61360
ATCHLEY, JOHN H-MAUREEN 2721 N 3501ST RD SENECA IL 61360	BLUE, ROBERT-PAMELA 2711 N 3501ST RD SENECA IL 61360	PETERS, ERNEST H-MARY 2709 N 3501ST RD SENECA IL 61360
HOYT, DARYL-MARGARET 3520 E 27TH RD MARSEILLES IL 61341	MOREL, JUDITH LYNN 1828 DINGLEY RD NE BAINBRIDGE ISL WA 98110	MOREL, JUDITH LYNN / HEASER, DENNIS RICHARD 1828 DINGLEY RD NE BAINBRIDGE ISLAND WA 98110
	MOREL, GARY EUGENE 3601 E 27TH RD SHERIDAN IL 60551	WHITEAKER, JEREMY R / ELIZABETH P 3574 E 27TH RD MARSEILLES IL 61341

LaSalle County Health Department
717 E Etna Rd, Ottawa, IL 61350

Jeffery Campbell Road Commissioner
1239 42nd RD Earlville IL 60518

Randy Baker
4766 E 1950TH RD LELAND IL 60531

RC Farm Limited Partnership
2374 N 45TH RD LELAND IL 60531

Bierma Agricultural & Investment
PO BOX 711689 SANTEE CA 92072-1689

Grover Family Farm LLC
3636 EMILY WAY CARMEL IN 46033

LS Bill Mitchell 1

Sent 6.15.24

Martha Hiller
11408 Newark Rd
Newark, IL 60541

Judith Brown
1005 Valley Ln
Lockport, IL 60441

Paul Callender
1783 335th Ave
Charlotte, IA 52731

The Farm II LLC
3201 Greenwood Ln
St Charles, IL 60175

Thom Fletcher Estate
681 Lisbon Center Rd
Newark, IL 60541

Robert Fisher
4187 Whitewillow Rd
Minooka, IL 60447

Jim Laesch
16640 Stephens Rd
Newark, IL 60541

George Thomas
16726 Stephens Rd
Newark, IL 60541

Martin Myre
15665 Whitewillow Rd
Newark, IL 60541

Frederick C. Noorlag
21W180 Hill Ave
Glen Ellyn, IL 60137

James & Brenda Whalen
2991 N. 37th Rd.
Seneca, IL 61360

WOLDMAN/HERLIEN PARTNERSHIP
PO BOX 3328
GLEN ELLYN IL 60138

KE Moe 1,6,7,9,&10

HAROLD B MEM LAND TRUST MOE
415 WALNUT ST
YORKVILLE, IL, 60560

BERNARD MOE LIV TR
364 S MAIN ST
OSWEGO, IL, 60543

Sent 6.15.24

Tom Richards
Big Grove Highway Commissioner
202 S. East St
Newark, IL 60541

Kendall County Health Department
811 John Street
Yorkville, IL 60560

	KE MOE 7 & 8	6/15/2023 6/29/2024
MAJA LLC 1444 N. Farnsworth Ave. Suite 500 Aurora, IL 60505	Maxine J. Hume 502 E. Benton Street Newark, IL 60541	Big Grove Jeff Mathre P.O. Box 538 Newark, IL 60541
Matthew Monsess 15824 Stephens Road Newark, IL 60541	First Midwest Bank 2801 W. Jefferson Street Joliet, IL 60435	
Paul Callender 1783 335th Avenue Charlotte, IA 52731	Martin Myre 15665 White Willow Road Newark, IL 60541	
Philip L. Brown 1005 Valley Lane Lockport, IL 60441	Moe Scarpati LLC 415 Walnut Street Yorkville, IL 60560	
JEREMY & BOBBIE JEAN JOHNSON 16501 INDIAN RD NEWARK, IL, 60541	Kendall County Health Department 811 W. John Street Yorkville, IL 60560	
Bernard Moe LIV Tr 364 S Main St Oswego IL, 60543	Allen Corinne Trust 3545 W Nettle Creek Dr Morris IL, 60450	Jeemy & Bobbie Jean Johnson 16501 Indian Rd Newark IL, 60541
Hume Maxine J Trust 175 West Dupont Morris IL, 60450	Elizabeth Takiff Scheinefeld PO 546 Highland Park IL 60035	Wayne K Withers 9386 Taylor Rd Magnolia IL 61336
Cary W & Pamela J Lieser 16420 US Hwy 52 Newark IL, 60541	Farm II LLC 1208 Bellevue Dr Dekalb IL, 60115	

LS Gunderson 1	16-05-101-000 16-05-102-000 16-05-301-000 16-05-302-000	04/1/2023 6/29/2024
C/O CHAD B GUNDERSON 2500 RIIVENDELL DR NEW LENOX IL 60451	**GUNDERSON, WAYNE G ETAL**	LaSalle County Health Department 717 E. Etna Rd Ottawa, IL 61350
Steve Kwarten 216 Green Mountain Drive Bolingbrook IL 60440	MASON, HARRY 3525 N IL ST RT 71 MARSEILLES IL 61341	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360
Heather K. Kwarten 304 Pueblo Drive Bolingbrook IL 60440	NELSON, PHILIP T / CARMEN S 2975 N 35TH RD SENECA IL 61360	WARPINSKI, RICHARD/ MARY 13243 LAKE MARY DR PLAINFIELD IL 60585
STILLGRASS LAND LLC 3549 E 25TH RD MARSEILLES IL 61341	KAMMERER, ALLAN W/JOANNE 2370 N 32RD RD MARSEILLES IL 61341	ERB FARMS LTD PARTNERSHIP 3597 N IL ST RT 71 MARSEILLES IL 61341

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: LS Hamman 5

6.) Size of Area Where Lime Residuals are to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 2100 wet tons

Years Applied 2019 and 2021 and 2022 and 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0583

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 3 LS Stewart 3

6.) Size of Area Where Lime is to be Used: 190 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? (Yes) No (Circle One)
Name of Generator Aurora Lime
Amount Applied Approx 4000 wet tons
Years Applied 2020, 2021,2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0585

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 28, 2024

2.) Name of User: Bill Mitchell

3.) Address of User: 4762 E 16th Road

4.) Phone Number of User: 815-739-1317

5.) Location Where Lime is to be Used: LaSalle County, Earl Township, Section 2 LS Bill Mitchell 1

6.) Size of Area Where Lime is to be Used: 80 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1,000 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent _____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than ¼ inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

William Mitchell 6-28-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 22, 2024

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-553-2798

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township, Section 30 KE Moe 6

6.) Size of Area Where Lime is to be Used: 35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay	T/A	
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 300 wet tons

Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X Benjamin Mac 7/22/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 22, 2024

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, KE Moe 8

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 900 wet tons
Years Applied 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X Benjamin Mac 7/22/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 1600 wet tons
Years Applied 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

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   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0593

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

October 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for September 2024. This report includes all land application work done by Stewart Spreading for September 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: September 2024

Billie M Marks

Name	Date	Telephone
	10/15/24	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
TCLP Herbicides Method 1311 **Method: 8321B**				
Analysis Date: 08/06/24				
Analyzed By: STERLIN				
2,4-D	< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)	< 0.5	0.5	mg/L	S
TCLP Metals Method 1311 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A **Method: 7470A**				
Analysis Date: 07/29/24				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
TCLP Extraction	Complete			
TCLP ZHE Preparation **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
ZHE Volatiles Extraction	Complete			
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 3.0	1.0	mg/kg	W
Barium	138	0.5	mg/kg	
→Cadmium	< 1.5	0.5	mg/kg	W
Chromium	12.0	0.5	mg/kg	
→Lead	< 1.5	0.5	mg/kg	W
Selenium	< 3.0	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Analysis Date: 07/29/24 Analyzed By: KJM		Preparation Method 3050B Preparation Date: 07/29/24 Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 07/26/24 Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent Method: 3060A/7196A Analysis Date: 07/30/24 Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble Method: 5220D 2011 Analysis Date: 07/31/24 Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total Method: 2310B 2011 Analysis Date: 07/25/24 13:30 Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) Method: 2320B 2011 Analysis Date: 07/25/24 13:00 Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N
Calcium Carbonate Equivalent Method: EPA Analysis Date: 08/20/24 Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) Method: 350.1R2.0 Analysis Date: 08/05/24 Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N

First Environmental Laboratories, Inc.
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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Sep-24**

Biosolids Field Record

KE Santoro 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/19/2024	9/13 and 9/14/24	City of Aurora - Lime	285.77	37.66	107.62
9/12/2024	9/13/2024	City of Aurora - Lime	899.41	36.13	324.96
9/13/2024	9/13/2024	City of Aurora - Lime	911.1	33.9	308.86
Total			2096.28		741.44

Biosolids Field Record

KE Collins 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/21/2024	9/7/2024	City of Aurora - Lime	516.16	36.09	186.28
Total			516.16		186.28

Biosolids Field Record

KE Dana Friestad 13

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/21/2024	9/7/2024	City of Aurora - Lime	503.26	36.09	181.63
Total			503.26		181.63

Biosolids Field Record

KA Ruh 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/3/2024	9/6/2024	City of Aurora - Lime	456.95	36.09	164.91
9/4/2024	9/6/2024	City of Aurora - Lime	188.36	33.83	63.72
Total			645.31		228.64

Biosolids Field Record

KE Stewart 4

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/1/2024	9/9/2024	City of Aurora - Lime	185.45	41.64	77.22
Total			185.45		77.22

Biosolids Field Record

KA Ruh 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/3/2024	9/3/2024	City of Aurora - Lime	501.26	36.09	180.90
9/4/2024	9/6/2024	City of Aurora - Lime	256.81	33.83	86.88
Total			758.07		267.78

Biosolids Field Record

KA Ruh 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/4/2024	9/6/2024	City of Aurora - Lime	302.58	33.83	102.36
Total			302.58		102.36

Biosolids Field Record

KE Swenson 24

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/4/2024	9/6/2024	City of Aurora - Lime	235.43	33.83	79.65
9/6/2024	9/6 and 9/7/24	City of Aurora - Lime	249.6	34.48	86.06
Total			485.03		165.71

Biosolids Field Record

KE Santoro 320

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/9/2024	9/14/2024	City of Aurora - Lime	1097.75	35.69	391.79
9/10/2024	9/14/2024	City of Aurora - Lime	1358.35	30.54	414.84
9/11/2024	9/14/2024	City of Aurora - Lime	550.96	33.46	184.35
9/11/2024	9/14/2024	City of Aurora - Lime	511.22	33.78	172.69
9/12/2024	9/14/2024	City of Aurora - Lime	162.72	36.13	58.79
Total			3681.00		1222.46

Biosolids Field Record

KE Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/6/2024	9/6/2024	City of Aurora - Lime	557.87	34.48	192.35
Total			557.87		192.35

Santoro

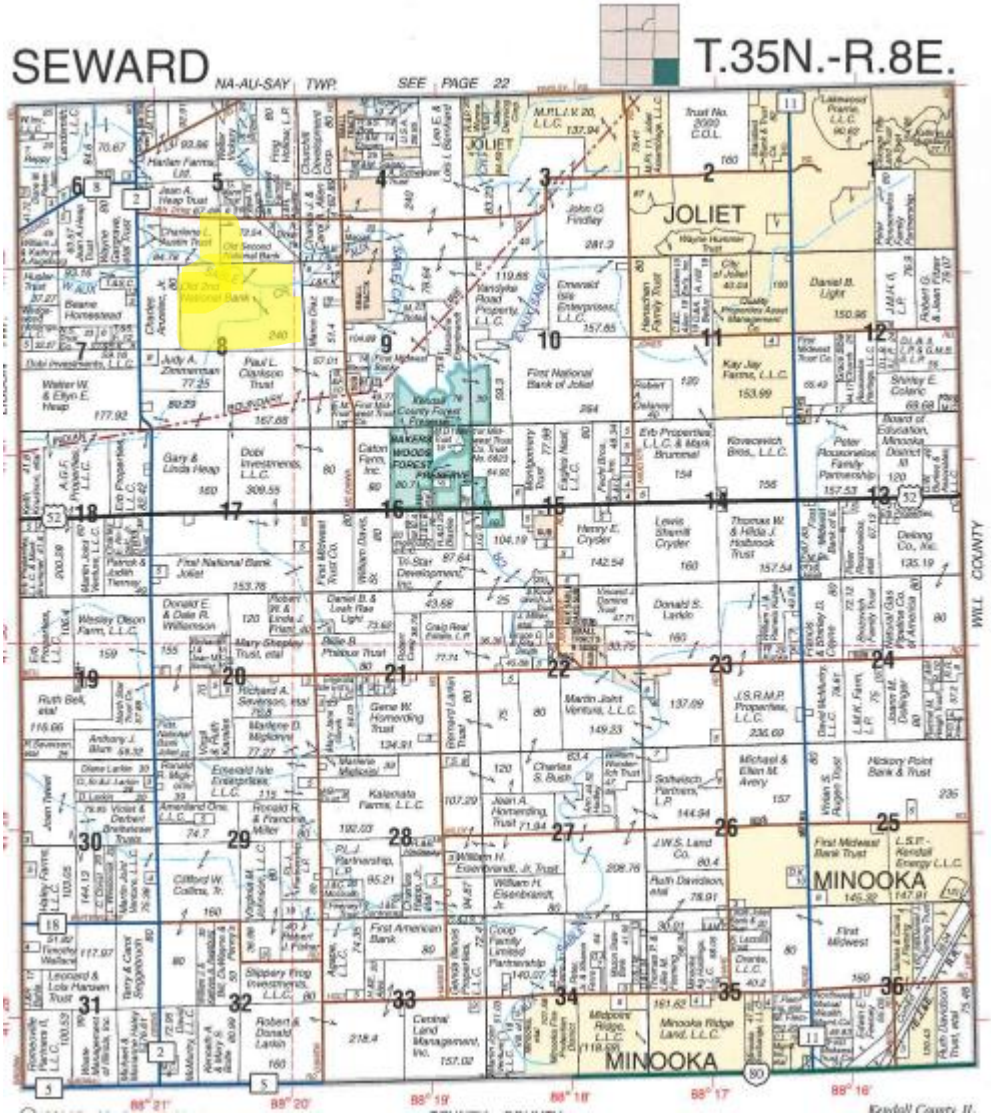
KE Santoro 6

218 acres

Kendall County

Steward Township

Section 8



Santoro

KE Santoro 6

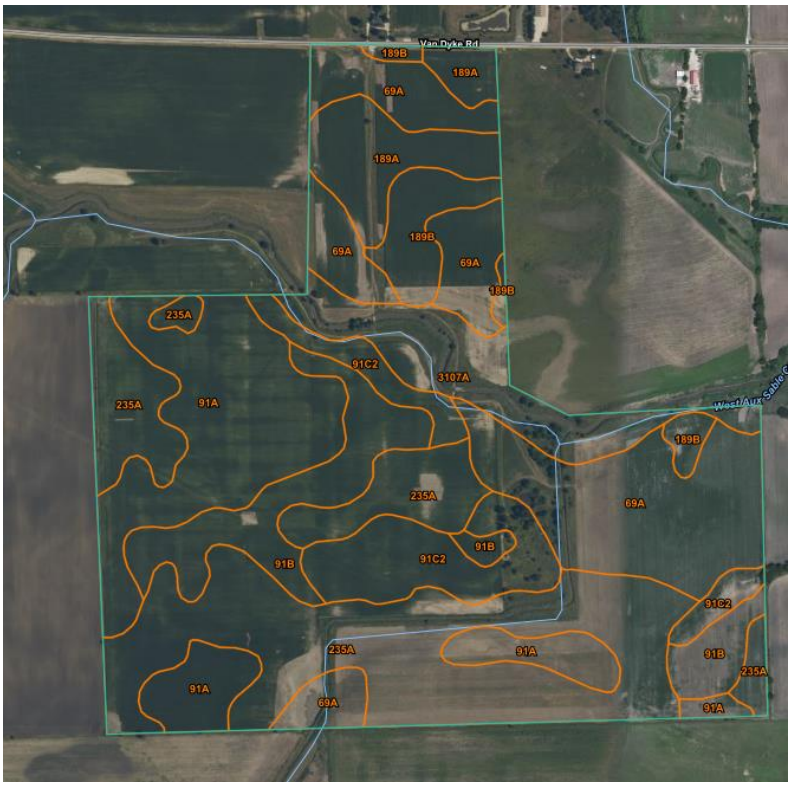
218 acres

Kendall County

Steward Township

Section 8

69A	Milford silty clay loam, 0 to 2 percent slopes	50.3	19.8%	0.20 to 0.60 in/hr
91A	Swygert silty clay loam, 0 to 2 percent slopes	43.7	17.2%	0.02 to 0.06 in/hr
91B	Swygert silty clay loam, 2 to 4 percent slopes	22.8	9.0%	0.02 to 0.06 in/hr
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	22.1	8.7%	0.02 to 0.06 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	14.3	5.6%	0.20 to 0.60 in/hr
189B	Martinton silt loam, 2 to 4 percent slopes	10.3	4.1%	0.20 to 0.60 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	72.3	28.4%	0.02 to 0.06 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	18.5	7.3%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER:	KE Santoro 6	COUNTY:	Kendall		Source of biosolids
ACREAGE:	218	TOWNSHIP:	Steward Tc	1	Aurora Lime
		SECTION:	8		
FARMER:	Frank Santoro				
ADDRESS:	2080 Simons Rd				
	Oswego, IL 60543				
PHONE #:					

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Sept.24	0.01	0.131	0.857	0.059	0.01	0.171	0	0	0	0	0.021	12.3 pci/g
TOTAL		0.01	0.13	0.86	0.06	0.01	0.17	0	0	0	0	0.021	pci/g
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	1.820	pci/g
Site Limit	2.820	pci/g
Cumulative Total to Date	1.841	pci/g
% of Total Cumulative Limit	65.28	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Tim Collin & Brian Moran

604 E. 1 st St

Hinsdale IL 60521

630-263-1361

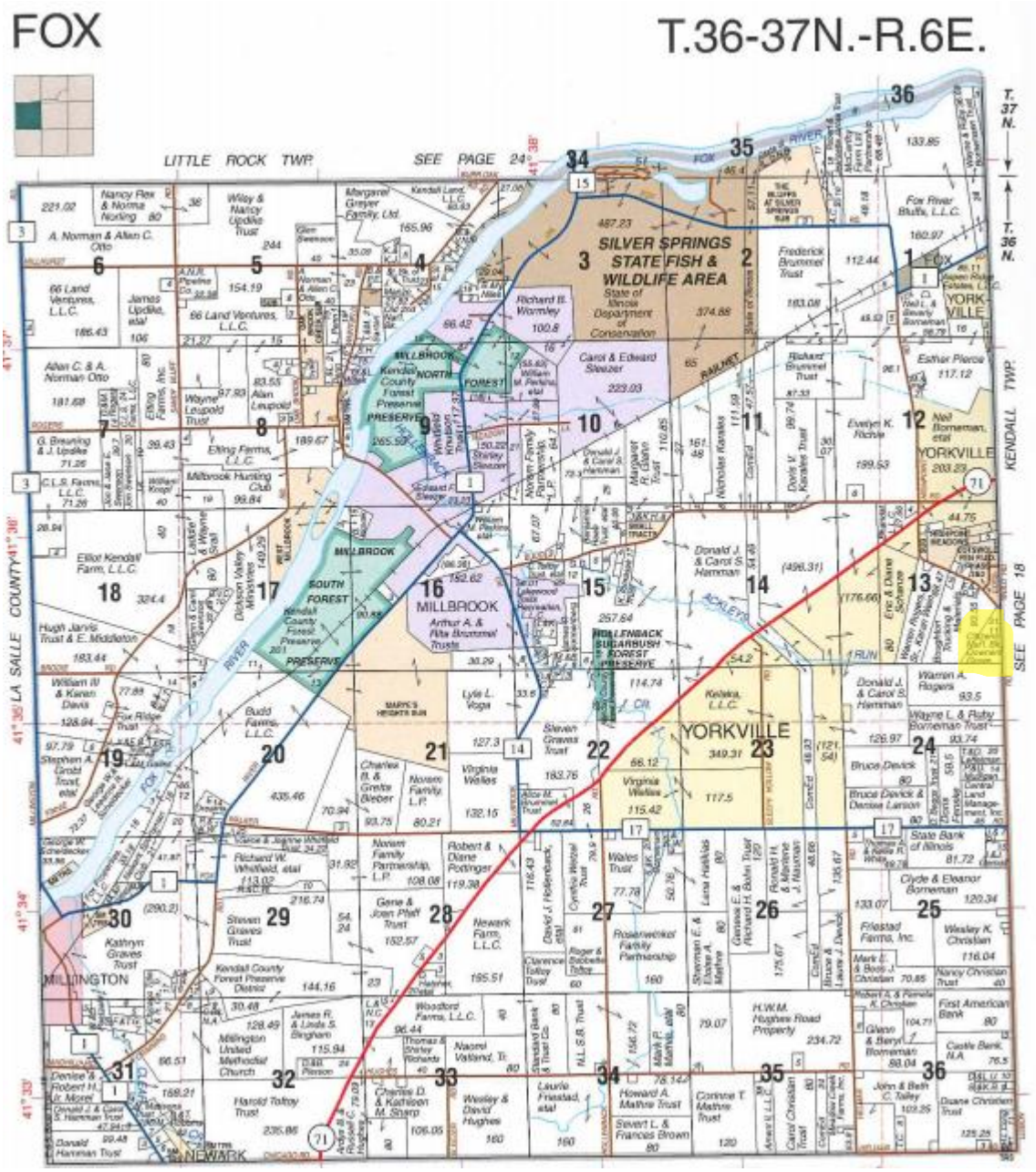
KE Collins 1

50 acres

Kendall County

Fox Township

Section 13



PLAT MAP

Farmer____Tim_Collins_____

Address_____

City, State, Zip_____

Phone_____

Field Code___KE Collins_____

Acres ___47_____

County_____Kendall_____

Township____Fox_____

Section ____13_____

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	10.6	22.0%	0.06 to 0.60 in/hr
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded	2.4	5.0%	0.06 to 0.60 in/hr
224F2	Strawn silt loam, 18 to 35 percent slopes, eroded	0.0	0.0%	0.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	3.2	6.6%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	3.8	7.8%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	27.5	57.3%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.6	1.3%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER:	1	COUNTY:	Kendall
ACREAGE:	50	TOWNSHIP:	Fox
		SECTION:	13

FARMER: Tim Collin and Brian Moran
ADDRESS: 604 E 1st Street
Hinsdale, IL 60521
PHONE #: 630-263-1361

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

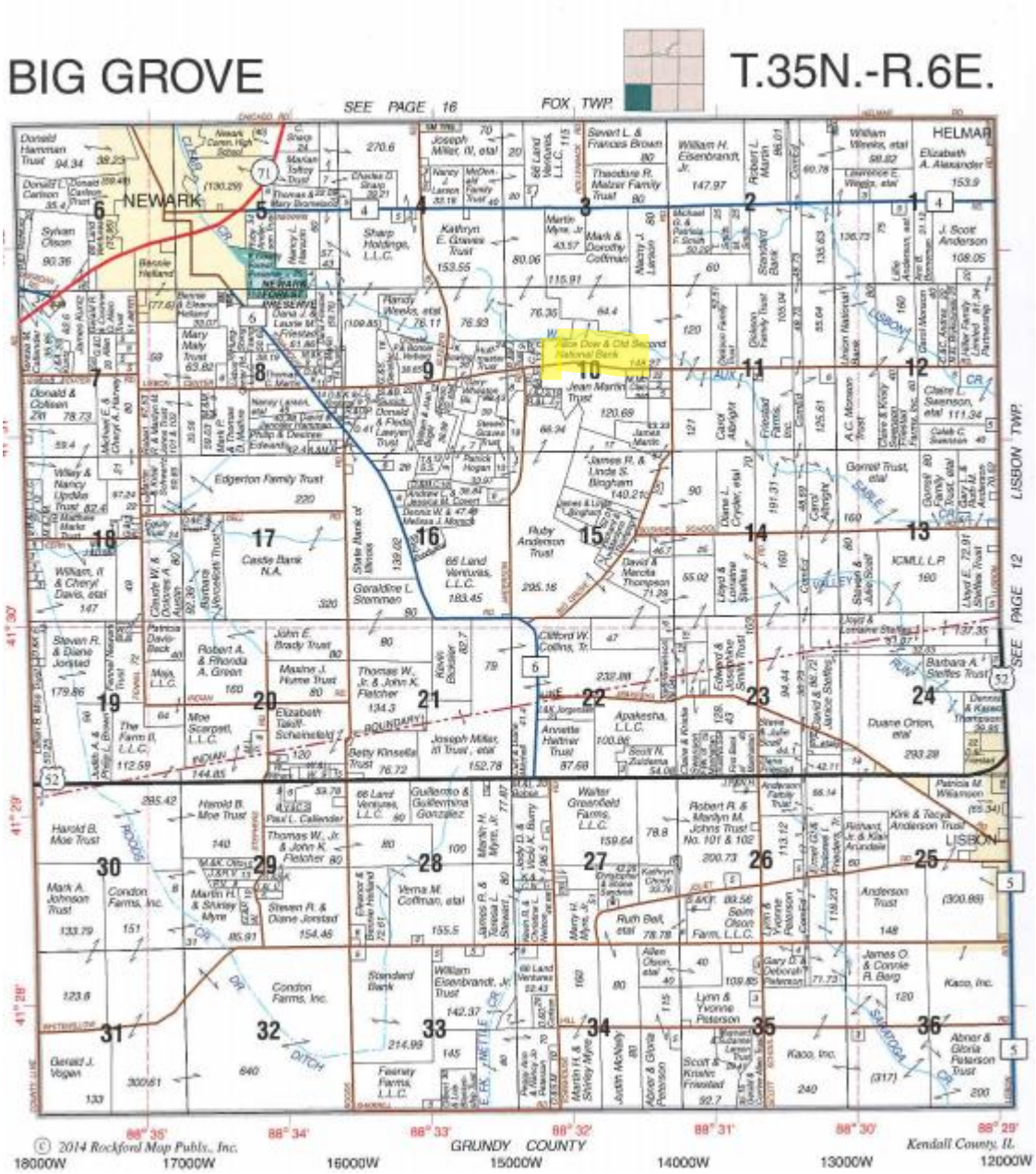
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sep-24	0.03	6.24	7.58	0.56	1.27	13.02	0.16	0.00	0.16	0.21	0.0000				1912.76	416.98
2	Sep-24	0.01	0.14	0.93	0.06	0.01	0.19	0.00	0.00	0.00	0	0.0230	12.3 pci/g			516.16	186.28
TOTAL		0.04	6.38	8.51	0.62	1.28	13.21	0.16	0	0.16	0.21	0.023	pci/g				
%of LIMIT		0.4	2.6	0.9	0.6	0.1	2.6	0.2	0	2	1.3						

1	Background Radium	0.850	pci/g
2	Site Limit	1.850	pci/g
3	Cumulative total to Date	0.87	%
4	% of Total Cumulative Limit	47.19	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium increase is 1 pci/g up to 3 pci/g total (2)
4 Includes Background and Applied Radiums

Dana Friested

KE Dana Friested 13
39 acres
Kendall County
Big Grove Township
Section 10



LRM0608

Dana Friested

KE Dana Friested 13
39 acres
Kendall County
Big Grove Township
Section 10

104A	Virgil silt loam, 0 to 2 percent slopes	7.2	17.9%	0.60 to 2.00 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.6	1.6%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	7.6	18.9%	0.06 to 0.60 in/hr
193C2	Mayville silt loam, 5 to 10percent slopes, eroded	0.5	1.3%	0.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	0.2	0.6%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	18.8	46.9%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	0.3	0.8%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	4.8	12.0%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Dana Friested 13
ACREAGE: 39
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 10
FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Sep-24	0.04	7.4	8.99	0.66	1.51	15.44	0.19	0.01	0.19	0.25		
2	Sep-24	0.014	0.181	1.184	0.082	0.014	0.236	0.000	0.000	0.000	0.000	0.030	12.3 pci/g
	TOTAL	0.05	7.58	10.17	0.74	1.52	15.68	0.19	0.01	0.19	0.25	0.03	pci/g
	%of LIMIT	0.5	3	1.1	0.7	0.2	3.1	0.2	0.1	2.4	1.6		

1	Background Radium	0.000	pci/g
2	Site Limit	0.000	pci/g
3	Cumulative Total to Date	0.000	pci/g
4	% of Total Cumulative Limit	0.00	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

PLAT MAP

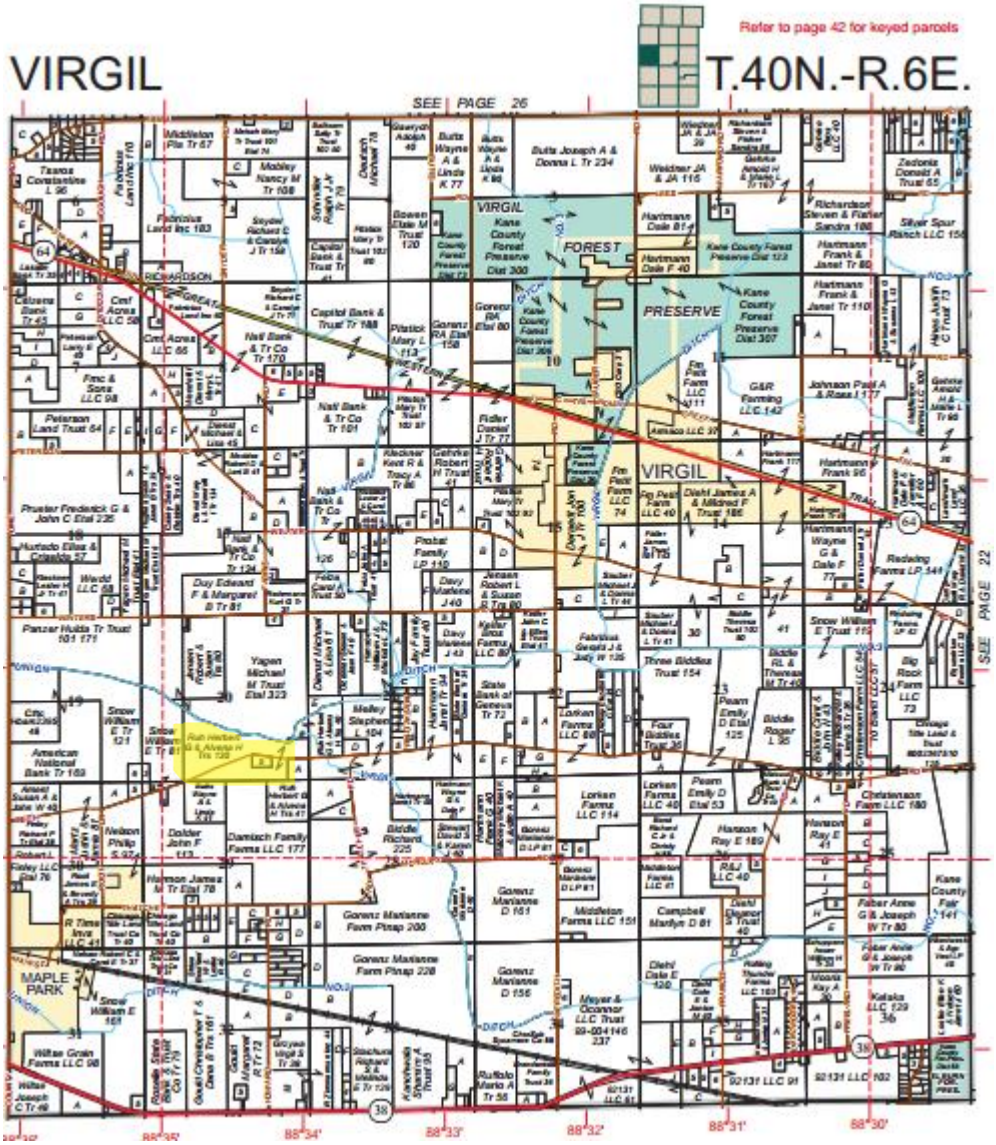
Farmer___Steve Ruh_____ Field Code____KA Ruh 7,8,9_____

Address____45725 Swan RD_____ Acres ____174_____

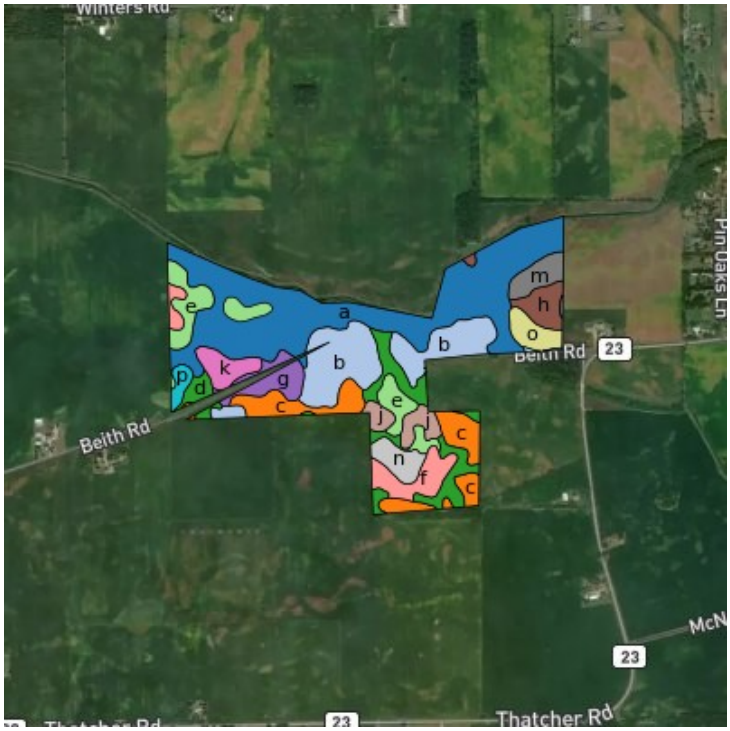
City, State, Zip___Big Rock IL 60511____ County_____Kane_____

Phone__630-556-3470_____ Township_____Virgil_____

Section ____20_____



Spirit Family Farms : RUH Farms : KA Ruh 7,8 and 9



Map Details

State: IL

County: Kane

QQQ:

Location: 20-40N-6E

Township: Virgil township

Acres: 217.0

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 3076A	Otter silt loam, 0 to 2 percent slopes, frequently flooded	75.8	34.9	222	66	5.00	0	0.62
(b) 325B	Dresden silt loam, 2 to 4 percent slopes	32.8	15.1	184	54	3.00	0	0.63
(c) 662B	Barony silt loam, 2 to 5 percent slopes	19.6	9.0	203	58	3.00	0	0.88
(d) 152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	8.2	226	67	5.50	0	0.83
(e) 149A	Brenton silt loam, 0 to 2 percent slopes	16.3	7.5	228	64	4.00	0	0.93
(f) 663A	Clare silt loam, 0 to 2 percent slopes	10.2	4.7	213	61	4.00	0	0.88
(g) 325C2	Dresden silt loam, 4 to 6 percent slopes, eroded	7.1	3.3	174	50	3.00	0	0.59
(h) 219A	Millbrook silt loam, 0 to 2 percent slopes	6.3	2.9	209	60	3.00	0	0.89
(j) 330A	Peotone silty clay loam, 0 to 2 percent slopes	6.2	2.9	188	57	6.20	0	0.63
(k) 570B	Martinsville silt loam, 2 to 4 percent slopes	5.8	2.7	184	53	2.00	0	0.89
(m) 668B	Somonauk silt loam, 2 to 5 percent slopes	5.8	2.7	192	53	2.00	0	0.86
(n) 663B	Clare silt loam, 2 to 5 percent slopes	5.5	2.5	207	60	3.50	0	0.91
(o) 134C2	Camden silt loam, 5 to 10 percent slopes, eroded	5.3	2.4	180	49	1.50	0	0.85
(p) 344C2	Harvard silt loam, 5 to 10 percent slopes, eroded	2.3	1.1	188	54	2.50	0	0.79
(q) 668A	Somonauk silt loam, 0 to 2 percent slopes	0.3	0.1	194	53	2.00	0	0.90
	Weighted Average			**208**	**61**	**4.03**	**0.0**	**0.73**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 75
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.009	0.116	0.756	0.052	0.009	0.151	0	0	0	0	0.0190	12.3 pci/g			645.31	228.64
TOTAL		0.01	0.12	0.76	0.05	0.01	0.15	0	0	0	0	0.019	pci/g				
%of LIMIT		0.1	0	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.529	pci/g
4	% of Total Cumulative Limit	60.92	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 72
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.011	0.143	0.932	0.064	0.011	0.186	0	0	0	0	0.0230	12.3 pci/g			758.07	267.78
TOTAL		0.01	0.14	0.93	0.06	0.01	0.19	0	0	0	0	0.023	pci/g				
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.533	pci/g
4	% of Total Cumulative Limit	61.07	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

METAL LOADING RECORD

SITE NUMBER: 9
ACREAGE: 27
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.011	0.147	0.958	0.066	0.011	0.191	0	0	0	0	0.0240	12.3 pci/g			302.58	102.36
TOTAL		0.01	0.15	0.96	0.07	0.01	0.19	0	0	0	0	0.024	pci/g				
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.534	pci/g
4	% of Total Cumulative Limit	61.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

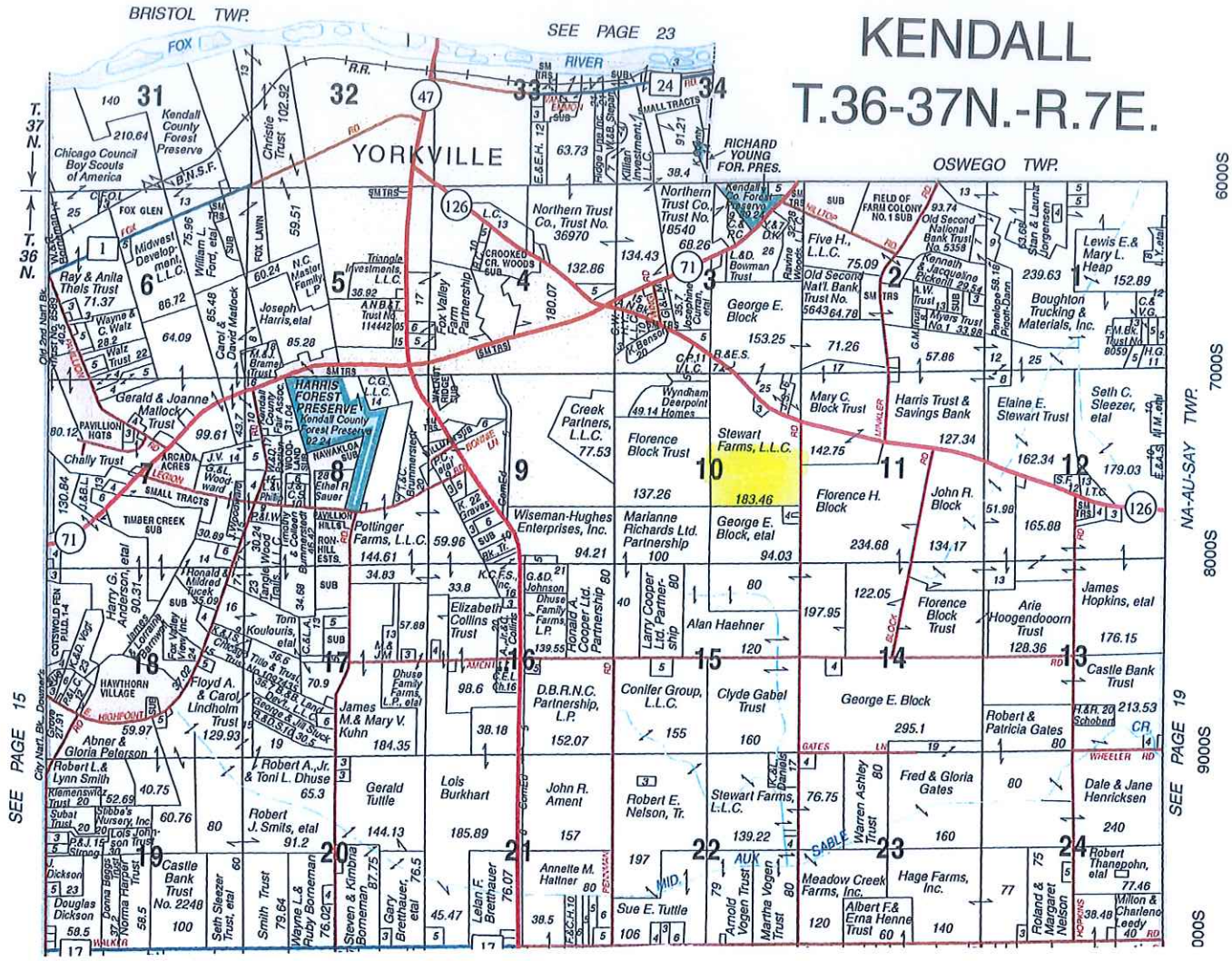
Pl

Stewart SPREADING

Plat Map

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10



Soil Series

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10

Soil Series & Texture		Percent Slopes	Permeability
59A	Lisbon silt loam	0 to 2 percent slopes	.06 - .60 on/hr
60C2	La Rose silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
60C3	La Rose clay loam	5 to 10 percent slopes, severely eroded	.06 - .60 on/hr
145B	Saybrook silt loam	2 to 5 percent slopes	.06 - .60 on/hr
145C2	Saybrook silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
356A	Elpaso silty clay loam	0 to 2 percent slopes	.20 - .60 on/hr



METAL LOADING RECORD

SITE NUMBER: KE Stewart 4
ACREAGE: 60
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 10

FARMER: John Stewart
ADDRESS: 3870 North Route 71
Sheridan, IL 60551
PHONE #: 815-695-1460

Metal Loadings in Pounds per Acre

Source of biosolids

1 Aurora - Lime
2 MWRDGC - Egan
3 LASMA - Marathon
4 Glenbard
5 Marseilles
6 DuPage
7 Lasma-Lagoon 28
8 Lasma-Lagoon 29
9 Lasma Lagoon 30
10 Lasma Lagoon 24
11 Plainfield
11 Plainfield
12 Lasma Lagoon 27

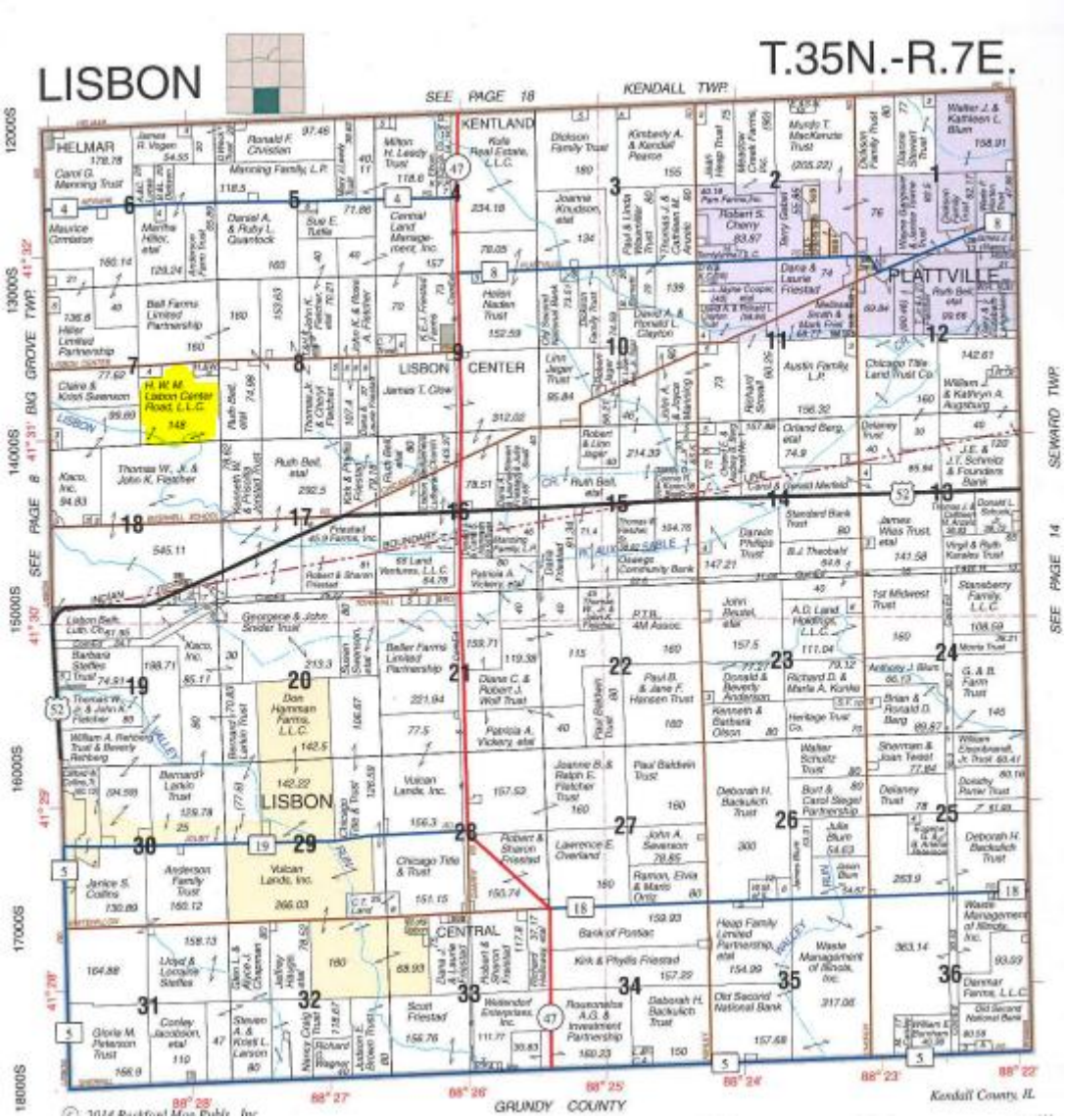
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	Lab Result pci/g
1	11/27/2012	0.000	0.053	1.480	0.060	0.015	0.370					0.022	pci/g			649.2	251.31	11.1
2	June 2013	0	1.97	1.83	0.18	0.1	2.04	0.02	0	0.02	0.02					666.34	162.39	
2	July 2013	0	2.41	2.12	0.19	0.11	2.55	0.02	0	0.02	0.03					841.4	201.18	
3	July 2013	0.05	7.36	8.12	0.73	1.91	14.52	0.08	0.02	0.08	0.17					2343.39	864.71	
4	Jun-15	0	0.93	0.21	0.02	0.04	0.94	0.001	0.002	0.09	0.09				560		86.05	
5	Jun-15	0.01	1.26	11.1	0.04	0.11	1.47	0.0198	0.0036	0.04	0.01	0.018			309		78.70	
6	July 2015	0.01	2.82	1.98	0.08	0.1	3.32	0.02	0.01	0.02	0.04				1350		168.87	
6	Aug 2015	0	0.68	0.64	0.02	0.04	0.87	0	0	0	0.01				350		48.44	
7	Nov 2016	0.05	4.95	3.97	0.55	1.44	10.57	0.07	0.01	0.06	0.12					2566.92	608.36	
8	Nov 2016	0.010	0.910	0.680	0.090	0.210	1.870	0.010	0.000	0.010	0.16					516.02	110.43	
8	Aug 2018	0.050	5.030	5.730	0.550	1.160	10.330	0.130	0.010	0.130	0.180					2684.10	664.31	
9	Oct 2019	0.080	10.170	13.120	1.000	2.200	19.990	0.310	0.010	0.100	0.290					2277.18	633.06	
10	Sept 20	0.110	12.580	14.080	1.280	2.780	24.530	0.420	0.020	0.140	0.390					2454.82	819.91	
11	September 21	0.014	1.070	0.620	0.060	0.020	1.460	0.020	0.001	0.020	0.030				756		101.92	
8	September 21	0.030	5.060	6.380	0.450	0.870	8.850	0.110	0.000	0.110	0.160					1453	344.36	
1	March 22	0.007	0.032	0.846	0.029	0.007	0.076	0.000	0.000	0.000	0.000	0.005				417.37	162.68	
7	August 22	.0.007	0.032	0.846	0.029	0.007	0.076	0.000	0.000	0.000	0.000					1902.58	405.25	
1	January 2023	0.004	0.058	0.642	0.027	0.004	0.095	0.000	0.000	0.000	0.000	0.011	5.38 pci/g			697.12	240.75	
7	Oct-23	0.050	7.100	7.860	0.680	1.780	15.010	0.050	0.010	0.170	0.290					2035.43	512.93	
12	Aug-24	0.030	5.890	6.640	0.540	1.230	12.740	0.150	0.000	0.150	0.210					2320.56	466.43	
1	Sept.24	0.004	0.050	0.328	0.023	0.004	0.065	0.000	0.000	0.000	0.000	0.008	12.3 pci/g			185.45	77.22	
	TOTAL	0.509	70.415	89.220	6.628	14.137	131.742	1.430	0.100	1.160	2.200	0.064	pci/g					
	%of LIMIT	5.1	28.2	9.9	6.6	1.4	26.3	1.4	0.7	14.5	13.7							

1	Background Radium	1.470	pci/g
2	Site Limit	2.470	pci/g
3	Cumulative Total to Date	1.534	pci/g
4	% of Total Cumulative Limit	63.73	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Swenson

KE Swenson 24
141 acres
Kendall County
Lisbon Township
Section 7



Swenson

KE Swenson 24
141 acres
Kendall County
Lisbon Township
Section 7

59A	Lisbon silt loam, 0 to 2 percent slopes	40.7	28.9% 0.20 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	11.7	8.3% 0.06 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	32.6	23.1% 0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	17.5	12.4% 0.06 to 0.60 in/hr
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	19.1	13.6% 0.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	18.6	13.2%0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: 24
ACREAGE: 141
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 7

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon Rd
Newark, IL 60541
815-736-6163

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	November-20	0.008	0.031	0.62	0.029	0.008	0.074	0	0	0	0	0.0060	6.25 pci/g			724.8	274.84
1	December-20	0.008	0.033	0.659	0.03	0.008	0.079	0	0	0	0	0.0070	6.25 pci/g			824.08	290.99
2	Oct-21	0.08	6.66	7.79	0.67	1.33	13.38	0.16	0.01	0.16	0.28					5064.58	1114.21
1	Oct-22	0.003	0.039	0.431	0.018	0.003	0.064	0.000	0.000	0.000	0.000	0.0070	5.39 pci/g			1233.01	379.65
2	Sep-24	0.010	2.610	3.170	0.230	0.530	5.450	0.070	0.000	0.070	0.090					2234.6	487.14
1	Sep-24	0.004	0.046	0.302	0.021	0.004	0.060	0.000	0.000	0.000	0.000	0.008	12.3 pci/g			485.03	165.71
TOTAL		0.11	9.42	12.98	1	1.88	19.11	0.23	0.01	0.23	0.37	0.028	pci/g				
%of LIMIT		1.1	3.8	1.4	1	0.2	3.8	0.2	0	2.9	2.3						

1	Background Radium	0.980	pci/g
2	Site Limit	1.980	pci/g
3	Cumulative total to Date	1.008	pci/g
4	% of Total Cumulative Limit	50.91	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

PLAT MAP

Farmer__Frank Santoro_____

Address_____2080 Simons Rd_____

City, State, Zip__Oswego, IL 60543_____

Phone_____

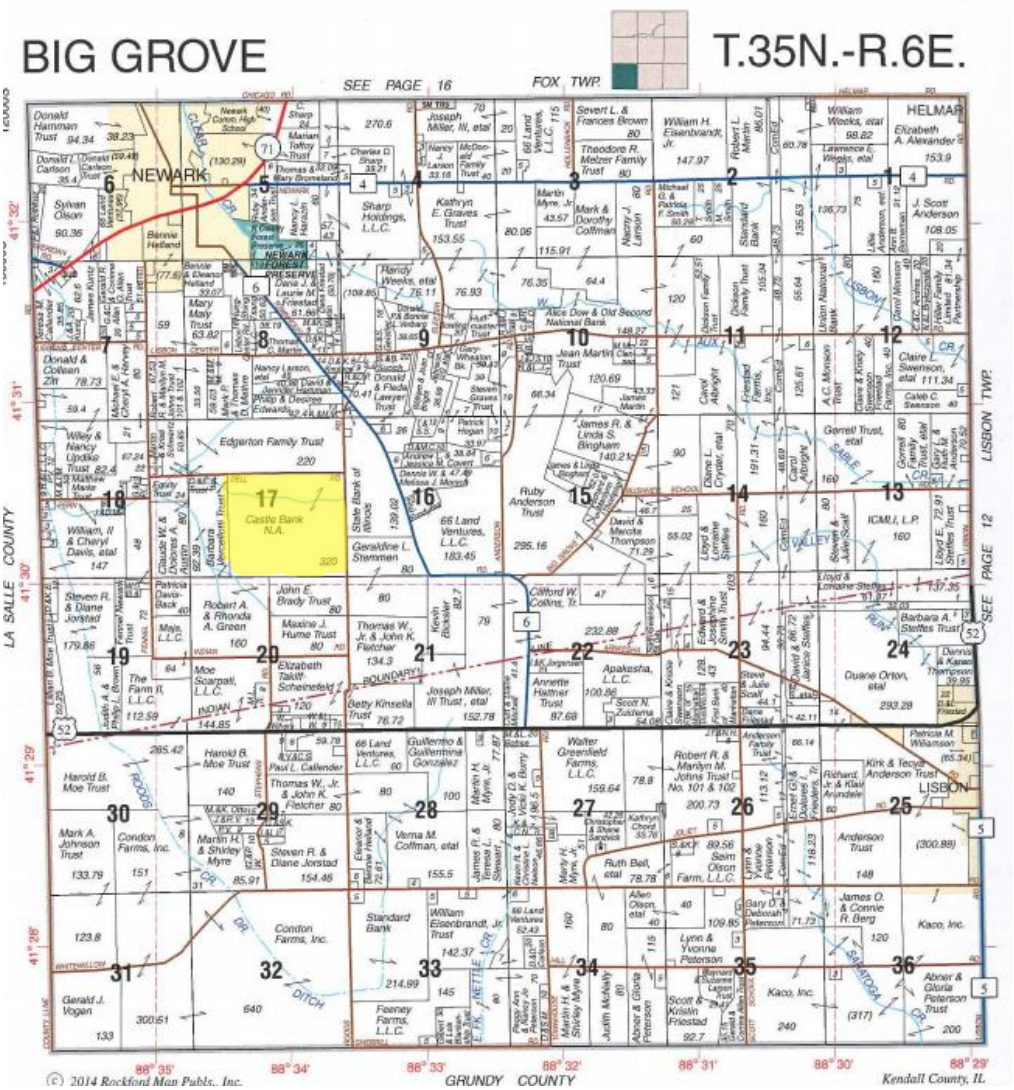
Field Code___KE_Santoro 320 Lime___

Acres ____309_____

County___Kendall _____

Township___Big Grove_____

Section ___17_____



LRM0622

Farmer_Frank Santoro_____ Field Code___KE_Santoro 320 Lime___

Address_2080 Simons_Rd_____ Acres ____309_____

City, State, Zip_Oswego, IL 60543_____ County___Kendall _____

Phone_____ Township___Big Grove_____

Section ___17_____

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	14.9	4.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	53.1	17.4%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	22.2	7.3%	0.06 to 0.60 in/hr
154A	Flanagan silt loam, 0 to 2 percent slopes	0.4	0.1%	0.20 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.0	0.3%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	43.5	14.2%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.5	0.2%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	59.0	19.3%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	110.7	36.3%	0.06 to 0.20 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Santoro 320
ACREAGE: 309
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: Frank Santoro
ADDRESS: 2080 Simons Road
Oswego, IL 60543

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

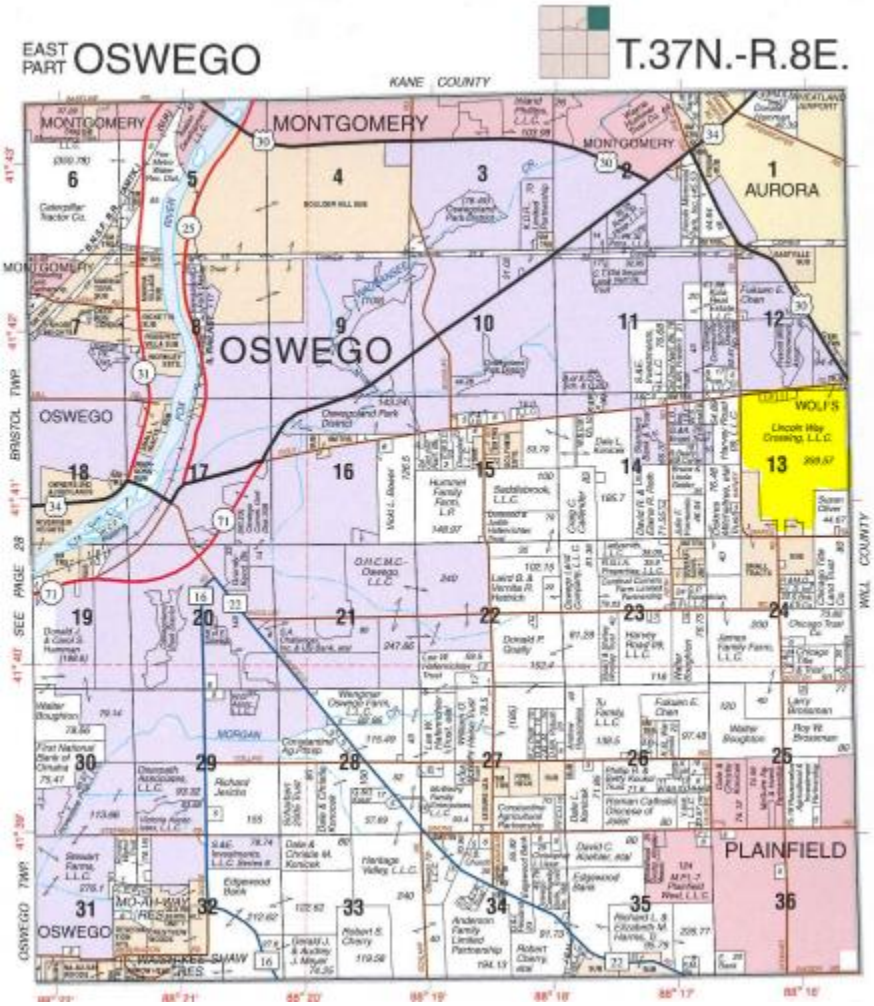
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	Sept.24	0.012	0.1510	0.983	0.068	0.012	0.196	0.00	0.00	0.00	0.00	0.024	12.3 pci/g			3681	1222.46	
TOTAL		0.012	0.151	0.983	0.068	0.012	0.196	0.00	0.00	0.00	0.00	0.024						
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0							

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.534	pci/g
4	% of Total Cumulative Limit	61.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



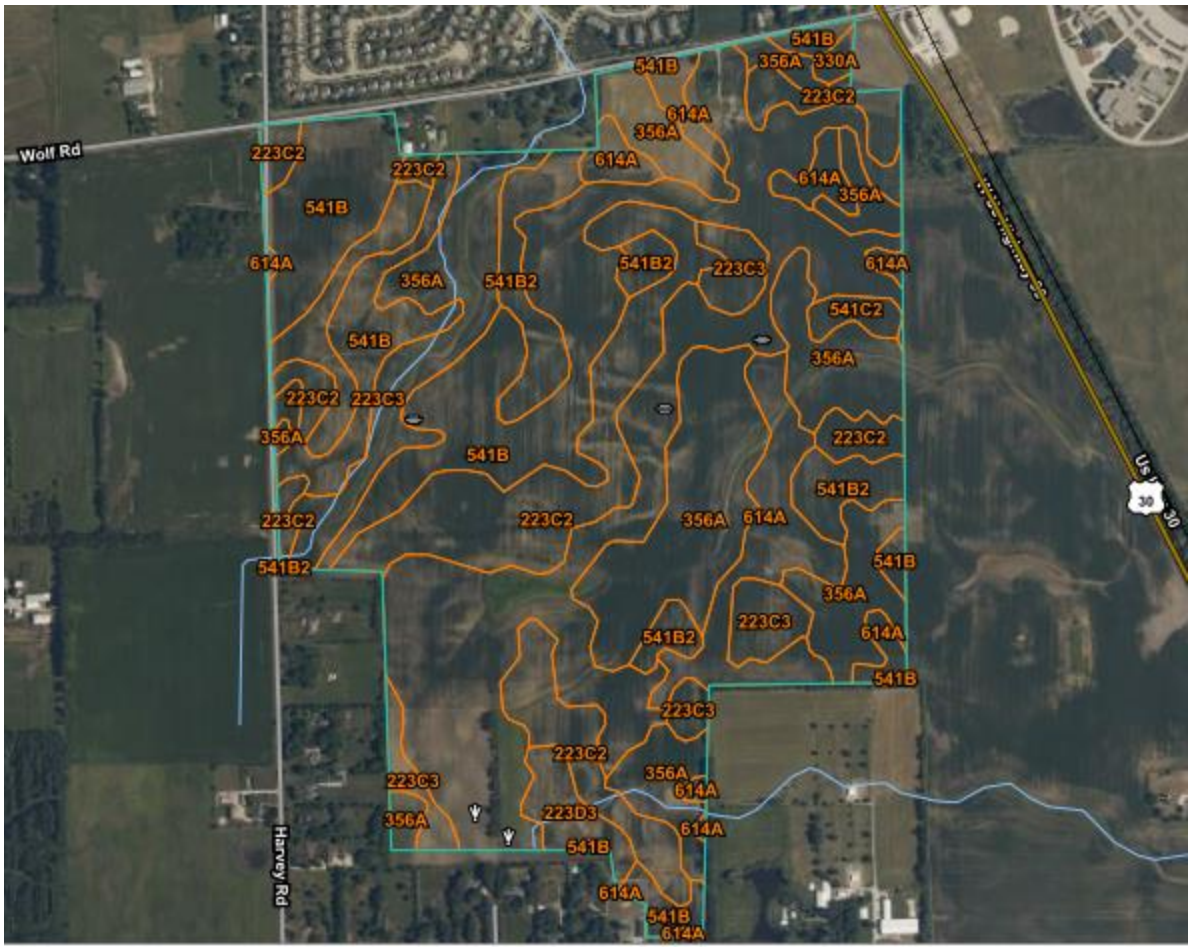
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

METAL LOADING RECORD

SITE NUMBER: KE Lincolnway 1
ACREAGE: 282.35
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 13

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27
12 Village of East Dundee

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
7	Nov-23	0.020	2.490	2.750	0.240	0.620	5.260	0.020	0.000	0.060	0.100					3520.94	838.73
3	Nov-23	0.003	0.018	0.262	0.009	0.003	0.031	0.000	0.000	0.000	0.000	0.005				1004.58	336.13
7	Aug-24	0.010	1.020	1.240	0.090	0.210	2.130	0.030	0.000	0.030	0.030					1628.30	354.97
12	Aug-24	0.000	0.020	0.020	0.000	0.020	0.000	0.000	0.000	0.000	0.000				25.00		3.82
3	Sep-24	0.002	0.026	0.171	0.012	0.002	0.034	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			557.87	192.35
7	Sep-24	0.010	2.180	2.650	0.190	0.440	4.550	0.060	0.000	0.060	0.070					3524.18	768.27
	TOTAL	0.153	22.730	37.943	2.030	4.010	39.600	0.380	0.000	0.490	0.710	0.065	pci/g				
	%of LIMIT	1.5	9.1	4.2	2	0.4	7.9	0.4	0	6.1	4.4						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.065	pci/g
4	% of Total Cumulative Limit	53.25	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0629

KE Santoro 6 09-05-400-023 09-08-200-002		7/10/2024 10/10/24
CLASSIC INVESTMENTS LLC 640 B RANCE RD OSWEGO, IL, 60543		
AUSTIN, CHARLENE L REV LIVING TRUST 365 GARDEN CIR YORKVILLE, IL, 60560	PRODEHL, JAMIE & JILLIAN 4405 VAN DYKE RD MINOOKA, IL, 60447	MANN, GERALDINE TRUST % MANN CRAIG 791 GREENFIELD TURN YORKVILLE, IL, 60560
1ST BAPTIST CHURCH PLAINFIELD % FIRST BAPTIST CHURCH MINOOKA 4295 VAN DYKE RD MINOOKA, IL, 60447	ALLEN, CHARLES J & CAROL A 3827 VAN DYKE RD MINOOKA, IL, 60447	ALLEN, CHARLES J & CAROL A 3827 VAN DYKE RD MINOOKA, IL, 60447
CLASSIC INVESTMENTS LLC 640 B RANCE RD OSWEGO, IL, 60543	FIVE THREE RANCH LLC % JOSEPH H CHOW MGR 949 BELL RD MINOOKA, IL, 60447	KREFTMEYER, JIMMY R & KAY 13087 MCKANNA RD MINOOKA, IL, 60447
CLARKSON PAUL L TRUST 2325 OCEAN POINT DR WILMINGTON, NC, 28405	ZIMMERMAN, JUDY A 1706 GREENE RIDGE DR NAPERVILLE, IL, 60565	ANZELEC, CHARLES JR 25556 NORTHCREST DR MINOOKA, IL, 60447

KE Collins 1
05-18-300-020
05-18-300-021
04-13-476-001

7/25/2024

DUKES FARM LLC
604 E FIRST ST
HINSDALE, IL, 60521

DUKES FARM LLC, %BRIAN J MORAN
604 E 1 ST ST
HINSDALE, IL, 60521

WHITNEY, HOWARD M & IONA C JT TEN TR
9122 LISBON RD
YORKVILLE, IL, 60560

CORRINGTON JOINT TENANCY REVOC LIV TR, CORRINGTON PHILIP N & LINDA TRUSTEES
8675 W HIGHPOINT RD
YORKVILLE, IL, 60560

BOUGHTON TRUCKING & MATERIALS
11746 S NAPERVILLE-PLAINFIELD RD
PLAINFIELD, IL, 60544

PETERSON, ABENER & GLORIA
33 WYCHWOOD LN
SOUTH BARRINGTON, IL, 60010

KARASCH, STEVEN M & LINDY E TRUST
8669 W HIGHPOINT RD
YORKVILLE, IL, 60560

ROGERS, WARREN A
1N172 POULEY RD
ELBURN, IL, 60119

FLIEG, LINDA M
8775 E HIGHPOINT RD
YORKVILLE, IL, 60560

WALDROP JEREMY &, GRAHAM WALDROP SUZANNE RENE
8635 W HIGHPOINT RD
YORKVILLE, IL, 60560

GENSEAL, JAY M & HEIDI J
8577 W HIGHPOINT RD
YORKVILLE, IL, 60560

BLOOM, ERIC M & DAWNE A JT LIV TR
8615 W HIGHPOINT RD
YORKVILLE, IL, 60560

KE Dana Friested 13, 14 PIN 07-10-200-002		3/15/2024 6/29/2024
KE Dana Friestad 15 PIN 07-02-300-002		
KE Dana Friestad 16,17 PIN 07-11-100-001		
DIKE, CHARLES A & RUTHANN 14865 LISBON CENTER RD NEWARK, IL, 60541		MCCLENNAN, MARNI L 14170 LISBON CENTER RD NEWARK, IL, 60541
MCCLENNAN, MARNI L 14170 LISBON CENTER RD NEWARK, IL, 60541	MARTIN, JEAN TRUST % DANIELLE I CIECHANSKI 2800 SIERRA AVE PLAINFIELD, IL, 60586	SMITH, RICHARD & BARBARA 14860 LISBON CENTER RD NEWARK, IL, 60541
DOW, ALICE & OLD SECOND NATIONAL BANK TR 33536400 37 S RIVER ST AURORA, IL, 60506	GRAVES, STEVEN E REV TRUST % STEVEN E & KATHRYN E GRAVES TTEES PO BOX 229 MILLINGTON, IL, 60537	COFFMAN, DOROTHY 1815 LITTLE ROCK RD PLANO, IL, 60545
SMITH, MICHAEL G & PATRICIA F 12750 BIG GROVE RD NEWARK, IL, 60541	STANDARD BANK, TRUST: 19133 13360 NEWARK RD NEWARK, IL, 60541	DOW, ALICE & OLD SECOND NATIONAL BANK TR 33536400 37 S RIVER ST AURORA, IL, 60506
SMITH, TYLER LIV TRUST 1115 W LUNT AVE UNIT 1A CHICAGO, IL, 60626	ALBRIGHT, CAROL 8331 E 3RD ST TUCSON, AZ, 85711	GIBLER KELLER FAMILY TRUST % SCOTT L GIBBLER & ELLEN M KELLER 5844 BURR OAK AVE BERKLY, IL, 60163
SMITH, MICHAEL H 12750 BIG GROVE RD NEWARK, IL, 60541	MARTIN, JAMES 2024 BELL RD MINOOKA, IL, 60447	
LARSON, NANCY J TRUST: FAM TR 453 POPLAR DR YORKVILLE, IL, 60560	DICKSON FARMS LLC % KIMBERLY DICKSON POLIZO TRUSTEE 426 SILVER LAKE DR CHICO, CA, 95973	SWENSON, CALEB C 13691 BIG GROVE RD NEWARK, IL, 60541-9111

KA Ruh 7,8,9

07-21-300-012

8/26/2024

07-20-400-010
07-20-400-007
07-20-300-004
07-20-400-014

RUH, HERBERT G & ALVENA H
DCLRN OF TRS HERBERT G &
ALVENA H RUH, TRUSTEES
4S475 SWAN RD
BIG ROCK, IL, 60511-9726

JENSEN, ROBERT & SUSAN
LIVING TRS, TRUSTEES
49W613 WINTERS RD
MAPLE PARK, IL, 60151-8492

RUH FAMILY FARM PROPERTIES LLC
4S725 SWAN RD
BIG ROCK, IL, 60511-9728

YAGEN, MICHAEL M TRUST,
TRUSTEE & ET AL
49W901 WINTERS RD
MAPLE PARK, IL, 60151-8494

SNOW, WILLIAM E TR # 101
ESTATE OF ROGER L BIDDLE,
TRUSTEE
42W201 CAMPTON HILLS RD
ELBURN, IL, 60119-9433

BUTTS, WAYNE A & LINDA K
7N951 BUTTS RD
MAPLE PARK, IL, 60151

DAMISCH FAMILY FARMS LLC
JOHN W DAMISCH
2625 TECHNY RD APT 752
NORTHBROOK, IL, 60062-8905

BIDDLE, RICHARD W TR#101 &
RICHARD W & DIANA L BIDDLE,
TRUSTEES
3N576 THATCHER RD
MAPLE PARK, IL, 60151-8435

KE Stewart 4	PIN **05-10-200-007**	Sent 6/29/2024
Marianne Richards 9103 Ament Rd. Yorkville, IL 60560	First Midwest Bank Trust & Investment 2801 W. Jefferson St. Joliet, IL 60435	George Block E ET AL 2402 Benrus Blvd. San AQntonio, TX 78228
	Mary C Block Family TR 13 Long Crescent Dr. Bristol, Virgina 24201	Kendall County Health Dept 811 John St, Yorkville, IL 60560

KE Swenson 24

08-07-400-005

Sent 7/15/24

HWM LISBON CENTER ROAD, LLC
%BRADLEY MATHRE, MANAGER
13889 HUGHES RD
NEWARK, IL, 60541

BELL FARMS LIMITED
7611 BRIARWOOD CIR
LITTLE ROCK, AR, 72205

CLAIRE & KRISTI SWENSON
13620 LISBON RD
NEWARK, IL, 60541

DANIEL & KATHLEEN RE TR BLAHA
11424 LISBON CENTER RD
NEWARK, IL, 60541

KENNETH W TRUST & PRISCILLA D
1180 BARKSTON CT
AURORA, IL, 605026822

MICHAEL & DIANE HIBLER
11026 LISBON CENTER RD
NEWARK, IL, 60541

THOMAS W JR & CHERYL T FLETCHER
10525 LISBON CENTER RD
NEWARK, IL, 60541

THOMAS W JR & CHERYL T
10525 LISBON CENTER RD
NEWARK, IL, 60541

% ARTHUR HILLER HILLER FAMILY LTD PARTNERSHIP
11048 NEWARK RD
NEWARK, IL, 60541

MARITAL TR & TESTIN JOEL REVOC LIV TR TESTIN SUSANNE L TRUSTEE
11949 BUSHNELLSCHOOL RD
NEWARK, IL, 60541

Yorkville Health Department
811 John Street
Yorkville, IL 60560

Kevin Kunkel
Highway Commssioner, Lisbon
14492 Lisbon Road
Newark, IL 60545

KE Santoro 320 Lime

07-17-400-002

9.15.24

MARTIN A & KRISTI A SCHWARTZ
8308 WALKER RD
YORKVILLE, IL, 60560

EMERY ZAHN LIV TR
PO BOX 116
ROCHELLE, IL, 61068

ROBERT R TRUST 101 & JOHNS
MARILYN M TRUST 102 JOHNS
14975 LISBON CENTER RD
NEWARK, IL, 60541

MATHRE, THOMAS O MATHRE MARK P
10820 NEWARK RD
NEWARK, IL, 60541

PHILIP A & DESIREE D EDWARDS
997 HARVEY RD
OSWEGO, IL, 60543

LIDIO PASILLAS
13979 ROODS RD
NEWARK, IL, 60541

STATE BANK OF ILLINOIS.
1107 A S BRIDGE ST
YORKVILLE, IL, 60560

J ROGER & JOYCE E CLAMPITT
14024 ROODS RD
NEWARK, IL, 60541

SUMMIT AG FUND III LLP
10640 HWY D20
ALDEN, IA, 50006

BARBARA TRUST VERCELLOTTI
1540 ROUTE 59
JOLIET, IL, 60431

DUANE & ELLEN SARTOR TR
16970 FERN DELL RD
NEWARK, IL, 60541

FBO MATTHEW G MARKS
14135 FENNEL RD
NEWARK, IL, 60541

NED B & CONNIE A NORQUIST
14385 FENNEL RD
NEWARK, IL, 60541

MATTHEW G MARKS TRUST
14135 FENNEL RD
NEWARK, IL, 60541

Kendall County Health Department
811 W. John Street
Yorkville, IL 60560

Big Grove
Jeff Mathre
P.O. Box 538
Newark, IL 60541

KE Lincolnway 1

7/15/24

LINCOLNWAY CROSSING LLC
1N220 INDIAN KNOLL RD
WEST CHICAGO IL 60185

Lincoln Prairie Aurora LLC
6275 STATE RTE 71
OSWEGO IL 60543

SCHWEGLER EDWARD F
11152 S HEGGS RD
PLAINFIELD IL 60585

GARDINER CHRISTOPHER J
45 HEGGS RD
OSWEGO IL 60543

NGH Farms LLC
13351b Faxon RD
Plano IL 60545

John Greene
34 RANCE RD
OSWEGO IL 60543

% PROPERTY SPECIALISTS INC
5999 S NEW WILKIE RD #108
ROLLING MEADOWS, IL, 60008

VINNIE J & JANNES E EMRICH
809 WOLF RD
OSWEGO, IL, 60543

HARVEY ROAD 09 LLC
13 SHELBURNE DR.
OAK BROOK, IL, 60523

DOLORES Y TRUST & OLD SECOND NATIONAL BANK MITCHELTREE
37 S RIVER ST
AURORA, IL, 60507

JAMES & DORA A MANZO
2700 HARVEY RD
OSWEGO, IL, 60543

% PROPERTY TAX DEPARTMENT
PO BOX 2168
HOUSTON, TX, 772522168

NICOLAS & SANDRA BARRIOS
2724 HARVEY RD
OSWEGO, IL, 60543

GRANADOS, ALFREDO DURAN, MARIO & SARA
2750 HARVEY RD
OSWEGO, IL, 60543

MARTIN J KRUG
2515 SADDLEBROOK DR
NAPERVILLE, IL, 60564

CHAS E & NANCY J HANNA
2826 HARVEY RD
OSWEGO, IL, 60543

ROSENDO & ANA HURTADO
2866 HARVEY RD
OSWEGO, IL, 60543

MARK J & SHARON A BERGMAN
573 RANCE RD
OSWEGO, IL, 60543

DAVID G & INGRID DICKINSON
551 RANCE RD
OSWEGO, IL, 60543

HARRY M & ANITA B MARSH TR
475B RANCE RD
OSWEGO, IL, 60543

GENO & CARY MURTAUGH
435 RANCE RD
OSWEGO, IL, 60543

THOS & SANDRA ROHRBACHER
335 RANCE RD
OSWEGO, IL, 60543

WALTER N MCNALLY
1601 W ADAMY CT
ADDISON, IL, 60101

PEREZ CYNTIA GARCIA HULVA GREG
12 PIONEER CT
OSWEGO, IL, 60543

MARK G & LAURA LYNN MIDDENDORF
101 WOLF RD
OSWEGO, IL, 60543

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 21, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 6

6.) Size of Area Where Lime is to be Used: 218 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent _____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied "no incorporation" to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss; as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

5/21/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 7, 2024

2.) Name of User: Tim Collin and Brian Moran

3.) Address of User: 604 E. 1st Street Hinsdale, IL 60521

4.) Phone Number of User: 630-263-1361

5.) Location Where Lime is to be Used: KE Collins 1

6.) Size of Area Where Lime is to be Used: 50 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b Sludge application shall not be permitted on land which is saturated or with ponded water.

c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than ¼ inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 200 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4 Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 5-7-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0641

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: April 23, 2024

2.) Name of User: Dana Friestad

3.) Address of User: 9218 White willow Road Morris IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friestad 13

6.) Size of Area Where Lime is to be Used: 39 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Dana T. Meistad 4/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 2, 2024

2.) Name of User: Steve Ruh

3.) Address of User: 45725 Swan Rd Big Rock, IL 60511

4.) Phone Number of User: 630-556-3470

5.) Location Where Lime is to be Used: KA Ruh 7,8 and 9

6.) Size of Area Where Lime is to be Used: 72 + 75 +27 acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Steve F Ruh 7/2/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

LRM0645

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Stewart 4

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1200 wet tons

Years Applied 2022 and 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2024

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 24

6.) Size of Area Where Lime is to be Used: 141 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn 200 bu/A grass/hay T/A

soybeans 60 bu/A CRP

wheat 90 bu/A

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Auora Lime

Amount Applied approx. 2700 wet tons

Years Applied 2020 and 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate-Equivalent ____
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
2. Buffer Area Requirements
   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.
   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a. Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Claire Swanson 8/15/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 21, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 320

6.) Size of Area Where Lime is to be Used: 309 acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent _____%
pH _____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied "no incorporation" to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss; as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

5/21/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 7,000 wet tons

Years Applied 2021 and 2022 and 2023

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____.
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:
   a. Sludge application shall not be permitted on land during precipitation.
   b. Sludge application shall not be permitted on land which is saturated or with ponded water.
   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.
   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.
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   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.
   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.
3. Soil and Geologic Conditions:
   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/ acre.
   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.
4. Interim Storage and Application Restrictions:
   a Off-site interim storage of liquid sludge prior to land application is not allowed.
   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

3/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

November 15, 2024

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for October 2024. This report includes all land application work done by Stewart Spreading for October 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: October 2024

Billie M Marks

	11/15/24	815-695-5667
Name	Date	Telephone

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com
LRM0655

City of Aurora - Lime

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Oct-24**

Biosolids Field Record

KE Gene Hamman 95

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/16/2024	10/16/2024	City of Aurora - Lime	1008.69	36.1	364.14
Total			1008.69		364.14

Biosolids Field Record

KE Dana Friesad 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/16/2024	10/16/2024	City of Aurora - Lime	417.35	36.1	150.66
Total			417.35		150.66

Biosolids Field Record

KE Jim Brummel 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	136.25	41.77	56.91
Total			136.25		56.91

Biosolids Field Record

KE Jim Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	182.16	41.77	76.09
Total			182.16		76.09

Biosolids Field Record

KE Gerry Brummel 11

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	63.56	41.77	26.55
Total			63.56		26.55

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
TCLP Herbicides Method 1311 **Method: 8321B**				
Analysis Date: 08/06/24				
Analyzed By: STERLIN				
2,4-D	< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)	< 0.5	0.5	mg/L	S
TCLP Metals Method 1311 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A **Method: 7470A**				
Analysis Date: 07/29/24				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
TCLP Extraction	Complete			
TCLP ZHE Preparation **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
ZHE Volatiles Extraction	Complete			
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 3.0	1.0	mg/kg	W
Barium	138	0.5	mg/kg	
→Cadmium	< 1.5	0.5	mg/kg	W
Chromium	12.0	0.5	mg/kg	
→Lead	< 1.5	0.5	mg/kg	W
Selenium	< 3.0	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Analysis Date: 07/29/24 Analyzed By: KJM		Preparation Method 3050B Preparation Date: 07/29/24 Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 07/26/24 Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent Method: 3060A/7196A Analysis Date: 07/30/24 Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble Method: 5220D 2011 Analysis Date: 07/31/24 Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total Method: 2310B 2011 Analysis Date: 07/25/24 13:30 Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) Method: 2320B 2011 Analysis Date: 07/25/24 13:00 Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N
Calcium Carbonate Equivalent Method: EPA Analysis Date: 08/20/24 Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) Method: 350.1R2.0 Analysis Date: 08/05/24 Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N

First Environmental Laboratories, Inc.
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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

PLAT MAP

Farmer___Gene Hamman_____

Address_14125 State Route 71_____

City, State, Zip__Yorkville, IL 60560___

Phone_____

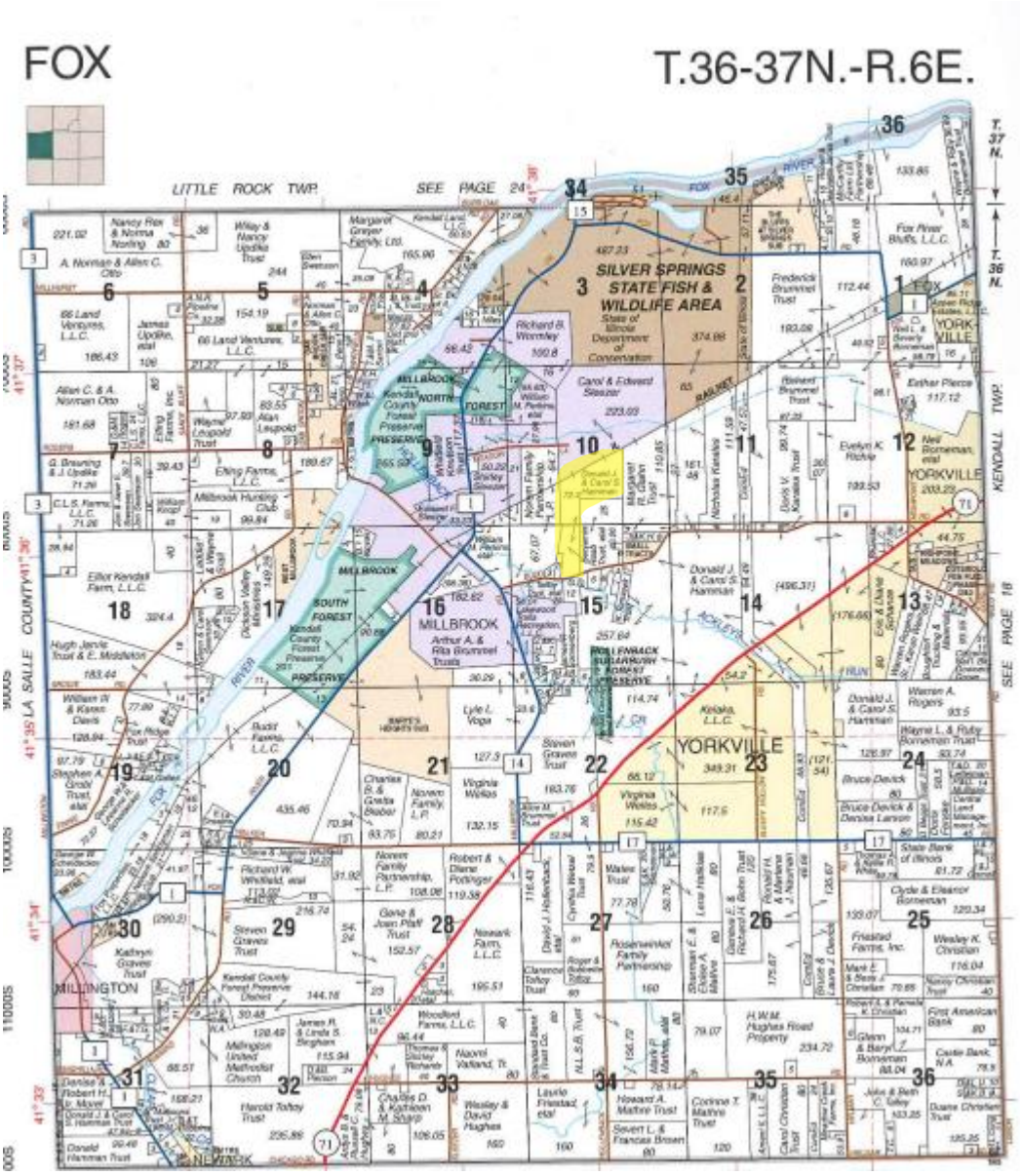
Field Code__Hamman 95_____

Acres ___93_____

County_ Kendall_____

Township_____Fox_____

Section __10,15_____



PLAT MAP

Farmer___Gene Hamman_____ Field Code__Hamman 95_____

Address_14125 State Rt. 71_____ Acres ___93_____

City, State, Zip__Yorkville, IL 60560____ County_ Kendall_____

Phone_____ Township_____Fox_____

Section __10,15_____

148A	Proctor silt loam, 0 to 2 percent slopes	54.7	58.9%	0.60 to 2.00 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	8.9	9.5%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	15.4	16.5%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	7.4	7.9%	0.60 to 2.00 in/hr
318D2	Lorenzo loam, 6 to 12 percent slopes, eroded	0.1	0.1%	0.60 to 2.00 in/hr
325A	Dresden silt loam, 0 to 2 percent slopes	6.4	6.9%	0.60 to 2.00 in/hr



METAL LOADING RECORD

SITE NUMBER: Hamman 95
ACREAGE: 93
COUNTY: Kendall
TOWNSHIP: Fox
SECTION: 10 and 15

FARMER: Gene Hamman
ADDRESS: 14125 State Route 71
Yorkville, IL 60560
PHONE #:

Source of biosolids
1 Aurora Lime
2

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.012	0.151	0.983	0.068	0.012	0.196	0	0	0	0	0.024	12.3 pci/g
TOTAL		0.01	0.15	0.98	0.07	0.01	0.2	0	0	0	0	0.024	12.3 pci/g
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	0.910	pci/g
Site Limit	1.910	pci/g
Cumulative Total to Date	0.934	pci/g
% of Total Cumulative Limit	48.90	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

PLAT MAP

Farmer___Dana Friestad_____

Address__9218 Whitewillow Road ____

City, State, Zip____ Morris, IL 60450__ _

Phone_____

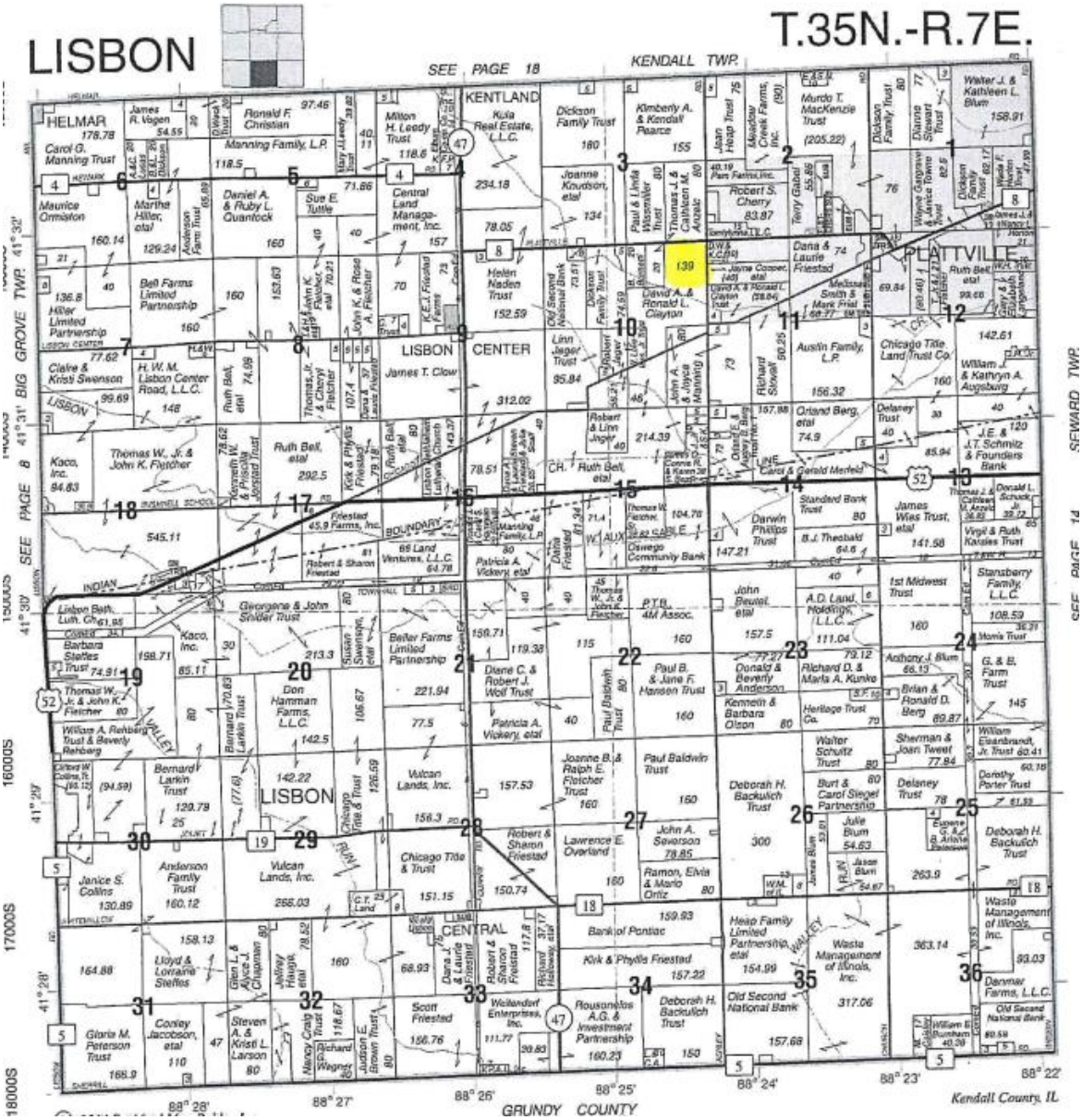
Field Code__KE Dana Friestad 3_

Acres _____38_____

County_____Kendall_____

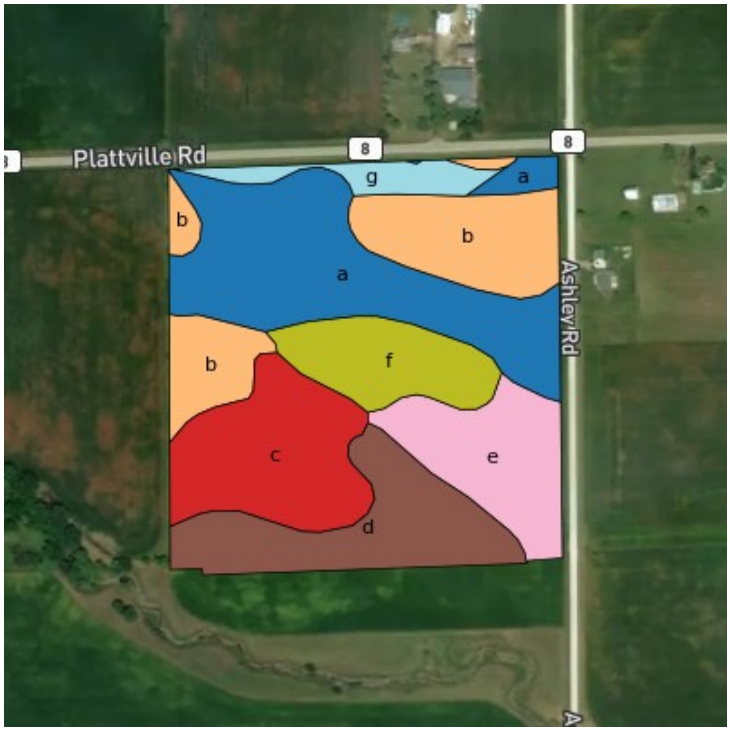
Township_____Lisbon_____

Section _____10_____



LRM0664

Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 3



Map Details

State: IL

County: Kendall

QQQ:

Location: 10-35N-7E

Township: Lisbon township

Acres: 38.3

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 59A	Lisbon silt loam, 0 to 2 percent slopes	10.1	26.3	241	71	4.00	0	0.77
(b) 541A	Graymont silt loam, 0 to 2 percent slopes	6.8	17.7	208	60	4.00	0	0.73
(c) 541B	Graymont silt loam, 2 to 5 percent slopes	6.0	15.8	202	59	4.00	0	0.81
(d) 152A	Drummer silty clay loam, 0 to 2 percent slopes	5.7	15.0	221	67	5.50	0	0.83
(e) 442A	Mundelein silt loam, 0 to 2 percent slopes	4.6	12.0	214	64	4.00	0	0.85
(f) 148B	Proctor silt loam, 2 to 5 percent slopes	3.6	9.4	208	60	3.50	0	0.88
(g) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	1.5	3.9	221	67	5.50	0	0.88
	Weighted Average			**219**	**65**	**4.24**	**0.0**	**0.80**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: Dana Friestad 3
ACREAGE: 38
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 10

FARMER: Dana Friestad
ADDRESS: 9218 Whitewillow Road
Morris, IL 60450

PHONE #:

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

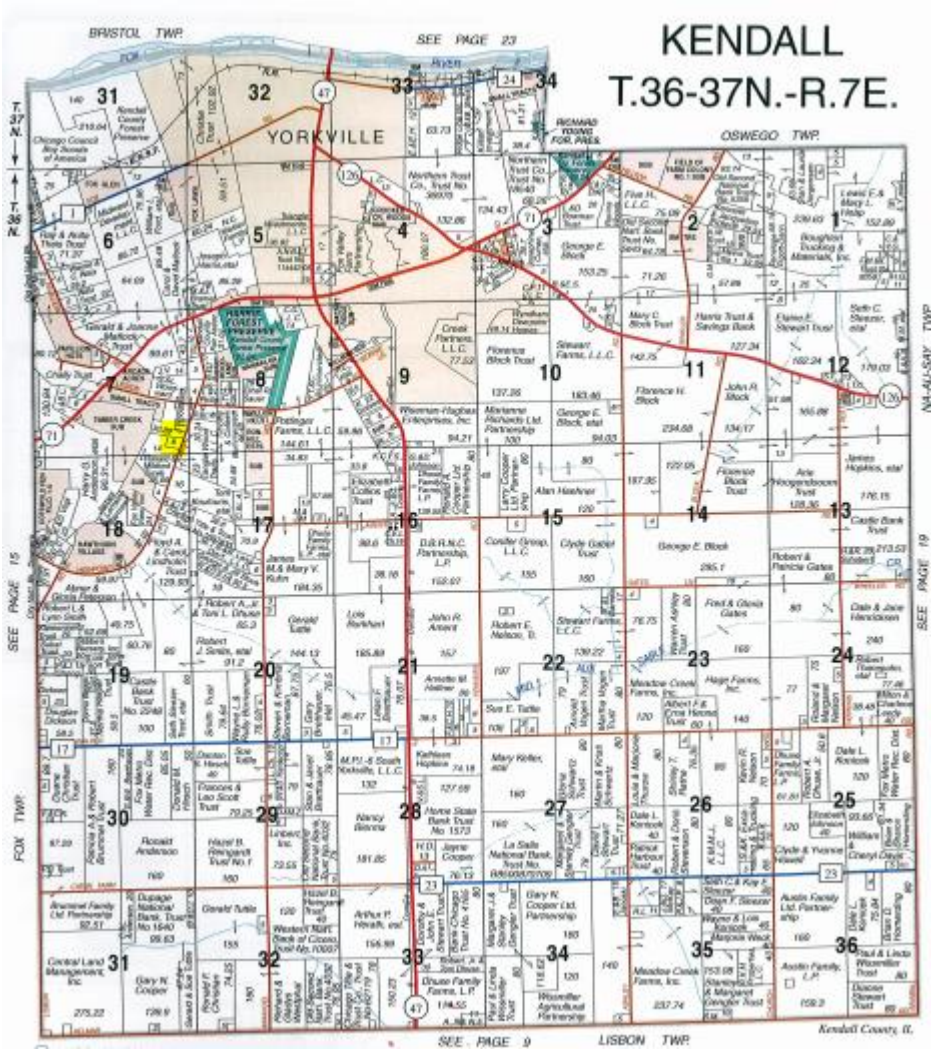
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.012	0.151	0.983	0.068	0.012	0.196	0	0	0	0	0.024	12.3 pci/g
TOTAL		0.01	0.15	0.98	0.07	0.01	0.2	0	0	0	0	0.024	12.3 pci/g
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	1.100	pci/g
Site Limit	2.100	pci/g
Cumulative Total to Date	1.124	pci/g
% of Total Cumulative Limit	53.52	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Jim Brummel

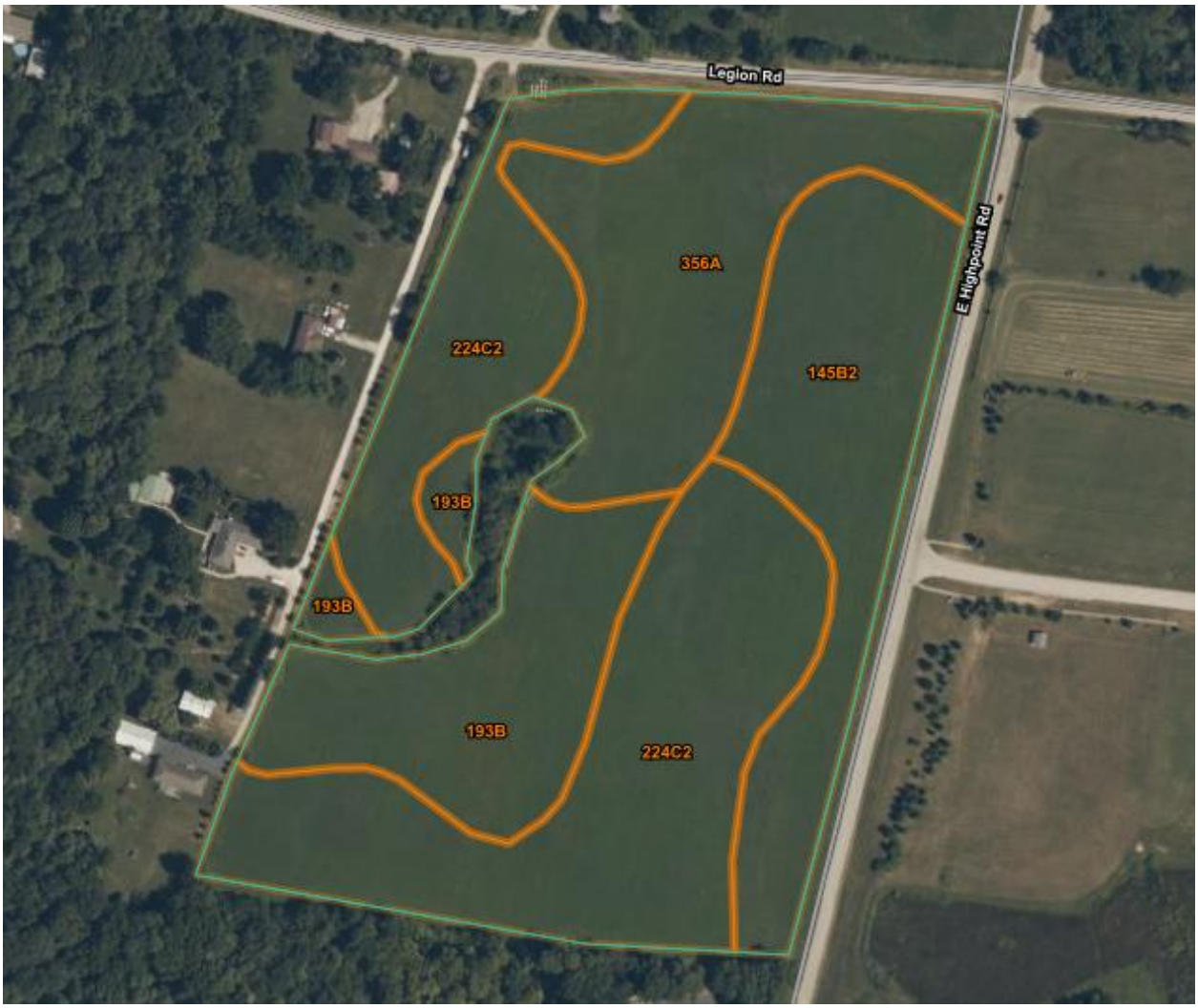
KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7



Jim Brummel

KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	10.6	41.4%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr



METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 2
ACREAGE: 25
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Marathon lag 25 cells 2,3,4
4 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.011	0.043	0.87	0.04	0.011	0.104	0	0	0	0	0.009				189.35	68.02
2	April 2021	0.03	6.15	7.17	0.69	1.12	10.51	0.19	0	0.14	0.22					891.71	180.13
2	June 2022	0.04	4.46	4.87	0.45	0.8	8.18	0.04	0	0.12	0.17					776.73	151.46
3	May-23	0.06	9.76	13.75	0.84	1.88	16.55	0.06	0.01	0.2	0.26					847.84	250.11
4	May-23	0	0.18	0.09	0.01	0.01	0.21	0	0	0	0					25	3.14
1	March.24	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.016	8.5 pci/g			260.91	93.72
2	May.24	0.05	4.35	5.31	0.44	0.68	8.83	0.11	0.01	0.11	0.16					850.7	145.47
1	Oct.24	0.007	0.089	0.58	0.04	0.007	0.115	0	0	0	0	0.014	12.3 pci/g			136.25	56.91
	Cumulative Total	0.21	25.09	33.47	2.54	4.52	44.6	0.4	0.02	0.57	0.81	0.039					
	%of LIMIT	2.1	10	3.7	2.5	0.5	8.9	0.4	0	7.1	5						

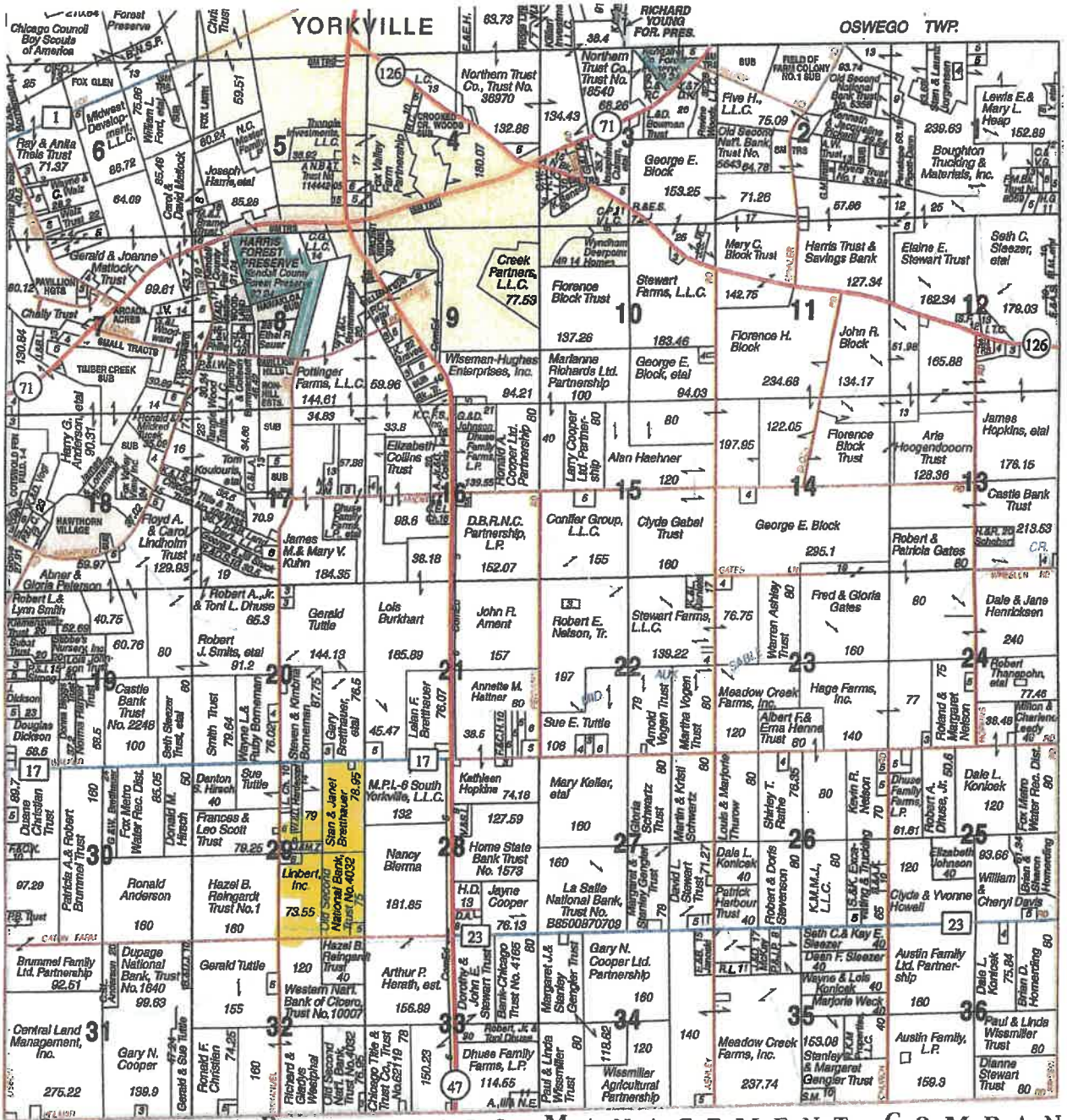
1	Background Radium	1.410	pci/g
2	Site Limit	2.410	pci/g
3	Cumulative total to Date	1.449	pci/g
4	% of Total Cumulative Limit	60.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Jim Brummel

KE Jim Brummel 1
Kendall County
Kendall Township
17½ Acres

KENDALL
T.36-37N.-R.7E.



A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

LRM0670

Spirit Family Farms : Brummel - Jim : KE Jim Brummel 1



Map Details

State: IL

County: Kendall

QQQ:

Location: 30-36N-7E

Township: Kendall township

Acres: 177.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 198A	Elburn silt loam, 0 to 2 percent slopes	66.8	37.6	225	65	4.50	0	0.91
(b) 148B	Proctor silt loam, 2 to 5 percent slopes	48.2	27.1	208	60	3.50	0	0.88
(c) 152A	Drummer silty clay loam, 0 to 2 percent slopes	45.4	25.5	221	67	5.50	0	0.83
(d) 541B	Graymont silt loam, 2 to 5 percent slopes	10.2	5.7	202	59	4.00	0	0.81
(e) 148A	Proctor silt loam, 0 to 2 percent slopes	5.2	2.9	210	61	3.50	0	0.90
(f) 330A	Peotone silty clay loam, 0 to 2 percent slopes	1.2	0.7	184	56	6.20	0	0.63
(g) 541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.7	0.4	194	56	3.00	0	0.70
(h) 442A	Mundelein silt loam, 0 to 2 percent slopes	0.3	0.2	214	64	4.00	0	0.85
(j) 443B	Barrington silt loam, 2 to 4 percent slopes	0.0	0.0	225	67	4.00	0	0.84
	Weighted Average			**217**	**64**	**4.43**	**0.0**	**0.87**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER:	KE Jim Brummel 1	COUNTY:	Kendall
ACREAGE:	176	TOWNSHIP:	Kendall
		SECTION:	29
FARMER:	Jim Brummel		
ADDRESS:	11526 Walker Rd Yorkville, Il 60560		
PHONE #:	630-675-7589		

Metal Loadings in Pounds per Ac

Source of biosolids

1	Aurora Lime
2	Lasma lagoon 28
3	Lasma Lagoon 24 and cell 5
4	Lasma Cells 3, 4 and 5
5	Lasma cell 2 SDP
6	Sandwich
7a	Naperville-storage pile 1
7b	Naperville-storage pile 2
7c	Naperville-storage pile 3
8	Plainfield
9	Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	10/18/2013	0.005	0.045	0.771	0.021	0.013	0.402					0.015				3023.77	977.64	9 pci/g
2	20-May	0.02	2.95	4.22	0.31	0.66	5.96	0.08	0	0.03	0.08					2486.83	601.81	
2	20-Jun	0.04	5.2	7.45	0.54	1.16	10.52	0.15	0.01	0.06	0.14					4413.98	1068.18	
3	20-Oct	0.05	5.39	6.03	0.55	1.19	10.51	0.18	0.01	0.06	0.17					5195.25	1735.21	
2	20-Oct	0	0.65	0.78	0.06	0.15	1.24	0.02	0	0.01	0.02					763.14	212.92	
2	22-Jun	0	0.24	0.26	0.02	0.04	0.44	0	0	0.01	0.01					307.6	59.98	
4	22-Jun	0.05	6.87	7.51	0.62	1.33	12.8	0.16	0.01	0.16	0.19					4822.45	1422.61	
5	22-Jun	0.01	0.9	1.05	0.09	0.21	1.75	0.02	0	0.02	0.02					789.09	197.27	
1	22-Jun	0.010	0.048	1.264	0.044	0.010	0.114	0.000	0.000	0.000	0.000	0.007	3.57 pci/g			1626.09	712.73	
6	22-Dec	0.005	0.420	0.440	0.030	0.020	0.620	0.010	0.000	0.010	0.010	0.010			532.00		76.78	
7a	22-Dec	0.000	0.270	0.110	0.010	0.000	0.340	0.000	0.000	0.000	0.000				439.00		64.85	
7b	22-Dec	0.000	1.410	0.700	0.020	0.040	1.820	0.010	0.000	0.020	0.010				1771.00		324.77	
7c	22-Dec	0.000	2.210	1.090	0.070	0.050	2.840	0.010	0.000	0.020	0.030				2497.00		432.47	
8	22-Dec	0.008	0.800	0.400	0.060	0.010	1.120	0.020	0.000	0.020	0.020				2617.00		284.17	
2	24-Oct	0.010	2.320	2.820	0.210	0.470	4.840	0.060	0.000	0.060	0.080					1831.09	399.18	
9	24-Oct	0.010	2.190	2.470	0.200	0.460	4.740	0.050	0.000	0.050	0.080					2360.72	474.50	
1	24-Oct	0.001	0.017	0.108	0.007	0.001	0.022	0.000	0.000	0.000	0.000	0.003	12.3 pci/g			182.16	76.09	
	TOTAL	0.219	31.930	37.473	2.862	5.814	60.078	0.770	0.030	0.530	0.860	0.035	pci/g					
	%of LIMIT	2.2	12.8	4.2	2.9	0.6	12	0.8	0	6.6	5.4							

1	Background Radium	0.470	pci/g
2	Site Limit	1.470	pci/g
3	Cumulative Total to Date	0.505	pci/g
4	% of Total Cumulative Limit	34.35	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Gerry Brummel

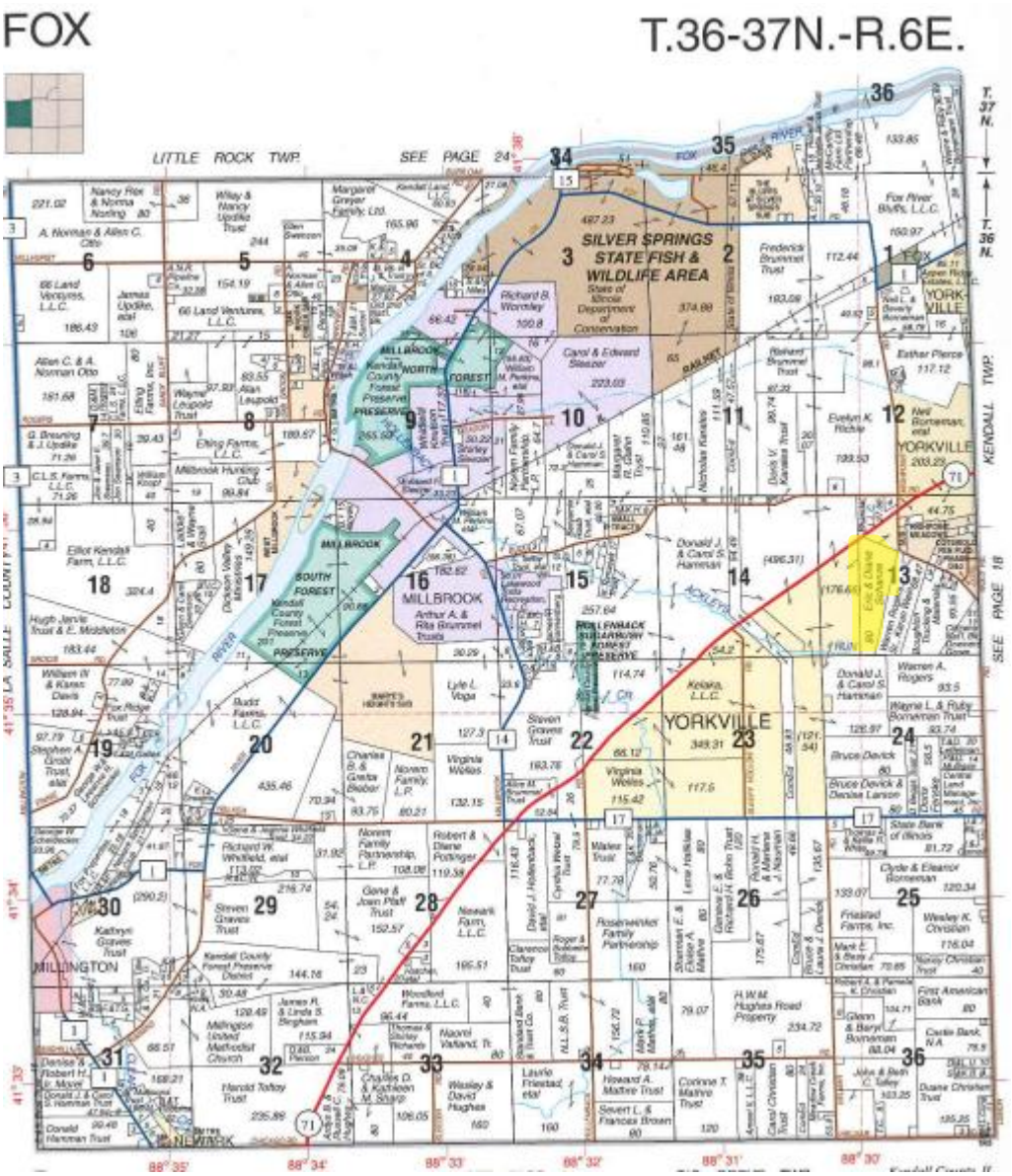
KE Gerry Brummel 11

71 acres

Kendall County

Fox Township

Section 13



Spirit Family Farms : Brummel Gerry Farms : KE G Brummel 11



Map Details

State: IL

County: Kendall

QQQ:

Location: 13-36N-6E

Township: Fox township

Acres: 71.5

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 541B	Graymont silt loam, 2 to 5 percent slopes	25.3	35.3	202	59	4.00	0	0.81
(b) 60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	23.1	32.4	171	53	2.00	0	0.53
(c) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	15.0	21.0	221	67	5.50	0	0.88
(d) 330A	Peotone silty clay loam, 0 to 2 percent slopes	8.1	11.4	184	56	6.20	0	0.63
	Weighted Average			**194**	**58**	**3.92**	**0.0**	**0.71**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER:	11	COUNTY:	Kendall		Source of biosolids
ACREAGE:	71	TOWNSHIP:	Fox	1	LASMA Lagoon 27
		SECTION:	13	2	LASMA Lagoon 28
FARMER:	Gerry Brummel			3	Aurora Lime
ADDRESS:	13205 Church Road Minooka, IL 60447				
PHONE #:	815-475-4505				

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.02	3.29	3.71	0.3	0.69	7.12	0.08	0	0.08	0.11		
2	Oct.24	0.01	2.61	3.17	0.23	0.53	5.45	0.07	0	0.07	0.09		
3	Oct.24	0.001	0.014	0.093	0.006	0.001	0.019	0	0	0	0	0.002	12.3 pci/g
TOTAL		0.03	5.91	6.97	0.54	1.22	12.59	0.15	0	0.15	0.2	0.002	pci/g
%of LIMIT		0.3	2.4	0.8	0.5	0.1	2.5	0.2	0	1.9	1.2		

Background Radium	2.230	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.232	pci/g
% of Total Cumulative Limit	74.40	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

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LRM0676

Hamman 95
PIN 04-10-400-003
04-15-100-010

Sent 9/20/24

HAMMAN, DONALD J & CAROL S
13351 B FAXON RD
PLANO, IL, 60545

DIETER, GERARD L
14574 BUDD RD
YORKVILLE, IL, 60560

GLAHN, MARGARET LIV TRUST
%GLAHN MARGARET
23715 W OTTAWA ST
PLAINFIELD, IL, 60544

SLEEZER, EDWARD & CAROL
14699 MEADOW LN
YORKVILLE, IL, 60560

MORSCH, DALE W REV LIV TR
PO BOX 765
SHERIDAN, IL, 60551

NOREM FAMILY PARTNERSHIP LP
%FLANDERS KRISTIN
919 FOREST AVE
RIVER FOREST, IL, 60305

CEISLA FAMILY 2011 TRUST, %
LAWRENCE W & PEGGY L
14725 BUDD RD
YORKVILLE, IL, 60560

TOFTOY, CLARENCE REVOC
TRUST ET AL % EDWARD F
SLEEZER 14699 MEADOW LN
YORKVILLE, IL, 60560

KE Dana Friested 3

9/17/2024

DAVID A & RONALD L CLAYTON
11104 GILCHRIST CT
POTOMAC, MD, 20854

STARGARD, JILL & TUTTLE, JACK
110 HILLSIDE DR
YORKVILLE, IL, 60560

CHAPMAN, KIM A WALTERS
7950 PLATTVILLE RD
NEWARK, IL, 60541

THOMAS & CATHLEEN ANZELC
8025 PLATTVILLE RD
NEWARK, IL, 60541

PAUL DEC LIV TR & WISSMILLER
9511 GROVE RD
YORKVILLE, IL, 60560

KE Jim Brummel 2

JOHN WOODWARD
7595 E HIGHPOINT RD
YORKVILLE, IL 60560

ROBERT G & SANDRA E RUTKAS
11130 B LEGION RD
YORKVILLE, IL 60560

ROBERT & ELIZABETH JACKSON
11150 LEGION RD
YORKVILLE, IL 60560

WALTER A & PAMELA RYBACK
7927 E HIGHPOINT RD
YORKVILLE, IL 60560

JEFFREY L & KAY L HANSEN
11130 C LEGION RD
YORKVILLE, IL 60560

JOHN WOODWARD
7595 E HIGHPOINT RD
YORKVILLE, IL 60560

FIRST AMERICAN BANK
208 COVINGTON CT
OAK BROOK, IL 60523

DUANE E & BETTY COPPES
11130 A LEGION RD
YORKVILLE, IL 60560

KE J Brummel 1

PIN
05-30-100-002
05-30-100-011

Kendall County Health Deparment
811 John St,

Yorkville, IL 60560

Kevin Kunkel Highway Commissioner
14492 Lisbon Road
Newark, IL 60545

BRUMMEL, GERALD LIV TR
10734 LISBON RD
YORKVILLE, IL 60560

4M YORKVILLE LLC,
1649 MONTGOMERY STE 1
AURORA, IL 60504

PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST
1308 SW 96TH ST
GAINESVILLE, FL 32607

BRUMMEL, ROBERT TR & PATRICIA TR
10736 LISBON RD
YORKVILLE, IL 60560

HARPER THOMAS & KING HEATHER HARPER &, MO STEPHANY HARPER
2316 NW PINNACLE DR
PORTLAND, OR 97229

DICKSON, FREDERICK H & CONSTANCE D
29 RIVERWOOD CT
OSWEGO, IL 60543

KALA, FREDERICK N & CHRISTINA
10474 LISBON RD
YORKVILLE, IL 60560

BRUMMEL FAMILY LTD PARTNERSHIP,
10734 LISBON RD
YORKVILLE, IL 60560

BORNEMAN, STEVEN L & KIMBRIA LYNN
9618 IMMANUEL RD
YORKVILLE, IL 60560

PUNKE, JAMES C & CONSTANCE K
10525 LISBON RD
YORKVILLE, IL 60560

CHRISTIAN, WESLEY K
10609 LISBON RD
YORKVILLE, IL 60560

ANDERSON, RONALD
9725 HELMAR RD
NEWARK, IL 60541

BORNEMAN, CLYDE & ELEANOR
10327 LISBON RD
YORKVILLE, IL 60560

GOMOLL, JOSEPH & JENNIFER
10151 LISBON RD
YORKVILLE, IL 60560

PETERSON PEGGY A TRUST &, PETERSON NANCY J TRUST
1308 SW 96TH ST
GAINESVILLE, FL 32607

KE G Brummel 11 04-13-300-003		10/1/2024
ED2KNK TRUST % ERIC P & DIANE E SCHANZE 1370 S ELM MARSHFIELD, MO, 65706		
HAMMAN, DONALD J & CAROL S 13351 B FAXON RD PLANO, IL, 60545	ROGERS, WARREN SR & WEIN KAREN 1 N 172 POULEY RD ELBURN, IL, 60119	NESHEIM, JASON E 8332 W HIGHPOINT RD YORKVILLE, IL, 60560
HAMMAN, DONALD J & CAROL S 13351 B FAXON RD PLANO, IL, 60545	HAMMAN, DONALD J & CAROL S 13351 B FAXON RD PLANO, IL, 60545	HAMMAN, DONALD J & CAROL S 13351 B FAXON RD PLANO, IL, 60545
BHANDAL LLC 1704 MUNDELEIN RD NAPERVILLE, IL, 60565	HAMMAN, DONALD J & CAROL S 13351 B FAXON RD PLANO, IL, 60545	

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 16, 2024

2.) Name of User: Gene Hamman

3.) Address of User: 14125 State Route 71 Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Gene Hamman 95

6.) Size of Area Where Lime is to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR LAND USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1 Climate Conditions:

a Sludge application shall not be permitted on land during precipitation.

b Sludge application shall not be permitted on land which is saturated or with ponded water.

c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than ½ inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2 Buffer Area Requirements

a Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3 Soil and Geologic Conditions:

a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4 Interim Storage and Application Restrictions:

a Off-site interim storage of liquid sludge prior to land application is not allowed.

b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X Gene Hamman 9-16-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friestad

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friestad 3

6.) Size of Area Where Lime is to be Used: 38 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Dana T. Neital 6-10-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 9/17/24

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: KE Jim Brummel 2

6.) Size of Area Where Lime is to be Used: 25 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 450 wet tons

Years Applied 2020 and 2024

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 9/17/24

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560-9556

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: Kendall County, Kendall Township, Section 30 KE Jim Brummel 1

6.) Size of Area Where Lime is to be Used: 176 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied 1600 wet tons
Years Applied 2022

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

9/17/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

gbrummel @ att.net

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 11

6.) Size of Area Where Lime Residuals are to be Used: 71 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ____ lbs. per dry ton
Nickel (Ni) ____ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) _ _ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

X _____ 1/23/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

City of Aurora
Water Production Division
Attention: Bob Leible
44 East Downer Place
Aurora, IL 60507

January 15, 2025

Dear Bob,

Enclosed please find a copy, for your records, of the City of Aurora portion of our Illinois EPA report for December 2024. This report includes all land application work done by Stewart Spreading for December 2024. Within the report you will find land application and site information. Detailed daily records of load transportation are kept at our office. Should you require additional information, please contact me any time.

Sincerely-

Billie M Marko

Billie Marko
Stewart Spreading, Inc.

Enclosure

CERTIFICATION STATEMENT FOR
MANAGEMENT PRACTICES

I certify, under penalty of law that the management practices in 503.14 have been met for each site on which bulk lime sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

Project: City of Aurora
Reporting Period: December 2024

Billie M Marks

Name	Date	Telephone
	1/15/25	815-695-5667

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Dec-24**

Biosolids Field Record

KA Dale Schramer 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/6/2024	12/6/2024	City of Aurora - Lime	642.63	34.85	223.96
Total			642.63		223.96

Biosolids Field Record

KE Friestad 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/6/2024	12/7/2024	City of Aurora - Lime	173.30	34.85	60.40
12/7/2024	12/7/2024	City of Aurora - Lime	475.80	34.85	165.82
12/9/2024	12/9/2024	City of Aurora - Lime	516.32	35.67	184.17
Total			1165.42		410.38

Biosolids Field Record

KE Friestad 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/10/2024	12/10/2024	City of Aurora - Lime	1062.95	30.76	326.96
Total			1062.95		326.96

Biosolids Field Record

KE Friestad 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons

12/9/2024	12/10/2024	City of Aurora - Lime	723.26	35.67	257.99
12/10/2024	12/11/2024	City of Aurora - Lime	130.37	30.76	40.10
Total			853.63		298.09

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
TCLP Herbicides Method 1311 **Method: 8321B**				
Analysis Date: 08/06/24				
Analyzed By: STERLIN				
2,4-D	< 0.5	0.5	mg/L	S
Silvex (2,4,5-TP)	< 0.5	0.5	mg/L	S
TCLP Metals Method 1311 **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 07/29/24		Preparation Date: 07/26/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Lead	< 0.005	0.005	mg/L	
Selenium	0.011	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
TCLP Mercury Method 1311/7470A **Method: 7470A**				
Analysis Date: 07/29/24				
Analyzed By: SLO				
Mercury	< 0.0005	0.0005	mg/L	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
TCLP Extraction	Complete			
TCLP ZHE Preparation **Method: 1311**				
Analysis Date: 07/25/24				
Analyzed By: TRG				
ZHE Volatiles Extraction	Complete			
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/29/24		Preparation Date: 07/29/24		
Analyzed By: KJM		Prepped By: KJM		
Arsenic	< 3.0	1.0	mg/kg	W
Barium	138	0.5	mg/kg	
→Cadmium	< 1.5	0.5	mg/kg	W
Chromium	12.0	0.5	mg/kg	
→Lead	< 1.5	0.5	mg/kg	W
Selenium	< 3.0	1.0	mg/kg	W
Silver	< 0.5	0.2	mg/kg	W

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001
Results are reported on a dry weight basis.

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Analysis Date: 07/29/24 Analyzed By: KJM		Preparation Method 3050B Preparation Date: 07/29/24 Prepped By: KJM		
Copper	19.3	0.5	mg/kg	
Manganese	126	0.5	mg/kg	
Nickel	8.7	0.5	mg/kg	
Zinc	25.1	1.0	mg/kg	
Total Mercury Method: 7471B Analysis Date: 07/26/24 Analyzed By: SLO				
Mercury	< 0.10	0.05	mg/kg	W
Chromium, Hexavalent Method: 3060A/7196A Analysis Date: 07/30/24 Analyzed By: AAS				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	
COD, Soluble Method: 5220D 2011 Analysis Date: 07/31/24 Analyzed By: JCG				
COD, Soluble	800	100	mg/kg	N
Acidity, Total Method: 2310B 2011 Analysis Date: 07/25/24 13:30 Analyzed By: NH				
Acidity, Total	< 50	50	mg/kg	N
Alkalinity, Total (as CaCO3) Method: 2320B 2011 Analysis Date: 07/25/24 13:00 Analyzed By: NH				
Alkalinity, Total (as CaCO3)	2,300	200	mg/kg	N
Calcium Carbonate Equivalent Method: EPA Analysis Date: 08/20/24 Analyzed By: JCG				
Calcium Carbonate Equivalent	91.2	0.1	% CaCO3	N
Ammonia (as N) Method: 350.1R2.0 Analysis Date: 08/05/24 Analyzed By: NZ				
Ammonia (as N)	105	2.0	mg/kg	N

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Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226 12.3	7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Dale Schramer

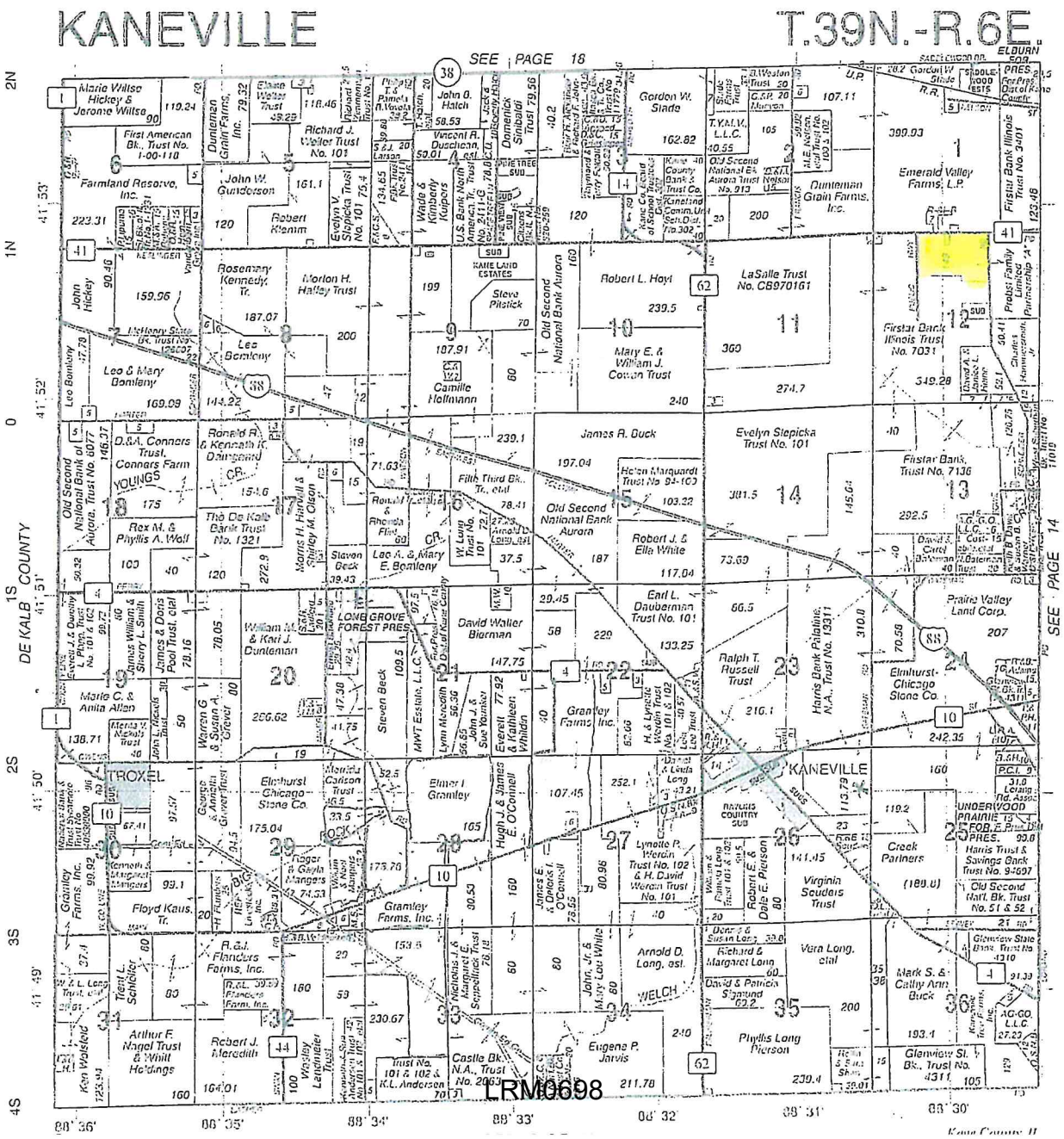
KA Schramer 2

64.75 Acres

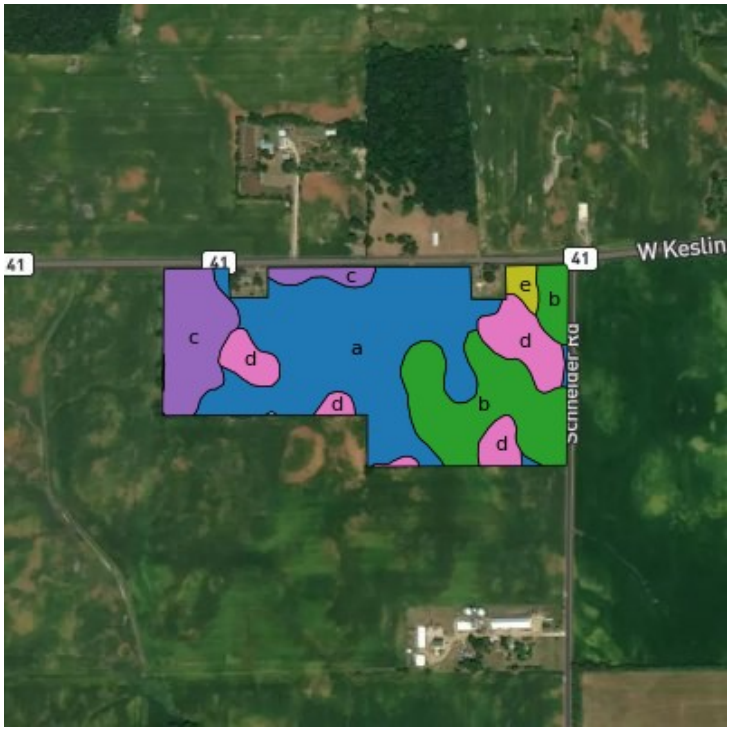
Kane County

Kaneville Township

Section 12


KANEVILLE
T.39N.-R.6E.
SEE PAGE 18
SEE PAGE 14
DE KALB COUNTY
TROXEL
KANEVILLE
WELCH
LONE GROVE FOREST PRES.
UNDERWOOD PRAIRIE
Emerald Valley Farms, L.P.
Dunteman Grain Farms, Inc.
Farmland Reserve, Inc.
Robert L. Hoyt
LaSalle Trust No. CB970161
Mary E. & William J. Cowan Trust
Evelyn Stepicka Trust No. 101
James R. Buck
Old Second National Bank Aurora
Firstar Bank Illinois Trust No. 7031
Firstar Bank, Trust No. 7136
Prairie Valley Land Corp.
Elmhurst-Chicago Stone Co.
Ralph T. Russell Trust
Harris Bank Palatine, N.A. Trust No. 13311
Virginia Scudeis Trust
Creek Partners
Harris Trust & Savings Bank Trust No. 94697
Old Second Nat'l. Bk. Trust No. 51 & 52
Vera Long, et al
Mark S. & Cathy Ann Buck
Glenview St. Bk., Trust No. 4311
Phyllis Long Pierson
Eugene P. Jarvis
Arnold D. Long, est.
Gordon W. Slade
Richard J. Weller Trust No. 101
Robert Klemm
John W. Gunderson
Rosemary Kennedy Tr.
Morton H. Halley Trust
Lee Bomleny
Steve Pistick
Camille Hoffmann
Lee & Mary Bomleny
Ronald R. & Kenneth R. Daugaard
O.&A. Conners Trust, Conners Farm
The De Kalb Bank Trust No. 1321
Rex M. & Phyllis A. Wolf
Steven Beck
Lee R. & Mary E. Bomleny
Fifth Third Bk., et al
Old Second National Bank Aurora
Robert J. & Ella White
Earl L. Dauberman Trust No. 101
Helen Marquardt Trust No. 93-100
William M. & Kari J. Dunteman
James & Doris Pool Trust, et al
Marlo C. & Anita Allen
Warren G. & Susan A. Grever
David Walter Bierman
Granley Farms, Inc.
Everett & Kathleen Whildin
John J. & Sue Yonker
Elmer I. Granley
Hugh J. & James E. O'Connell
Lynette P. Wercin Trust No. 102 & H. David Wercin Trust No. 101
Robert E. & Dale E. Pierson
Richard & Margaret Long
David & Patricia Sigmund
Arthur F. Nagel Trust & Willi Hedinger
Robert J. Meredith
Castle Bk., N.A., Trust No. 2063
Trust No. 101 & 102 & K.L. Anderson
Floyd Kaus, Tr.
Trent L. Schilder
R.&J. Flanders Farms, Inc.
Ken Walsleben
Granley Farms, Inc.
Marie Willse Hickey & Jerome Willse
First American Bk., Trust No. 1-00-110
Dunteman Grain Farms, Inc.
Richard J. Weller Trust No. 101
Vincent R. Duscheen, et al
Dominick Sinibaldi Trust
Gordon W. Slade
T.K.M.V., L.L.C.
Old Second National Bk. Aurora Trust No. 913
Dunteman Grain Farms, Inc.
Firstar Bank Illinois Trust No. 3401
Prairie Family Limited Partnership
Old Second National Bank of Aurora, Trust No. 6077
Rex M. & Phyllis A. Wolf
Morris H. Harwell & Shirley M. Olson
Lee R. & Mary E. Bomleny
Steven Beck
Lynn Meredith
MWT Estate, L.L.C.
Everett & Kathleen Whildin
Granley Farms, Inc.
Robert J. & Ella White
Earl L. Dauberman Trust No. 101
Ralph T. Russell Trust
Harris Bank Palatine, N.A. Trust No. 13311
Prairie Valley Land Corp.
Elmhurst-Chicago Stone Co.
Creek Partners
Harris Trust & Savings Bank Trust No. 94697
Old Second Nat'l. Bk. Trust No. 51 & 52
Vera Long, et al
Mark S. & Cathy Ann Buck
Glenview St. Bk., Trust No. 4311
Phyllis Long Pierson
Eugene P. Jarvis
Arnold D. Long, est.
Richard & Margaret Long
David & Patricia Sigmund
Robert E. & Dale E. Pierson
Lynette P. Wercin Trust No. 102 & H. David Wercin Trust No. 101
Hugh J. & James E. O'Connell
Granley Farms, Inc.
Elmer I. Granley
Steven Beck
MWT Estate, L.L.C.
Lynn Meredith
John J. & Sue Yonker
Everett & Kathleen Whildin
David Walter Bierman
Granley Farms, Inc.
Earl L. Dauberman Trust No. 101
Robert J. & Ella White
Old Second National Bank Aurora
Fifth Third Bk., et al
Helen Marquardt Trust No. 93-100
James R. Buck
Evelyn Stepicka Trust No. 101
Firstar Bank, Trust No. 7136
Prairie Valley Land Corp.
Elmhurst-Chicago Stone Co.
Ralph T. Russell Trust
Harris Bank Palatine, N.A. Trust No. 13311
Virginia Scudeis Trust

Spirit Family Farms : Schramer Dale Farms : KA Dale Schramer 2



Map Details

State: IL

County: Kane

QQQ:

Location: 12-39N-6E

Township: Kaneville township

Acres: 64.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 348B	Wingate silt loam, cool mesic, 2 to 5 percent slopes	30.4	46.9	192	55	3.00	0	0.82
(b) 152A	Drummer silty clay loam, 0 to 2 percent slopes	14.9	23.0	226	67	5.50	0	0.83
(c) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.6	14.8	228	67	5.50	0	0.88
(d) 656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	8.8	13.6	178	53	2.50	0	0.64
(e) 193B	Mayville silt loam, 2 to 5 percent slopes	1.1	1.7	180	54	2.00	0	0.84
(f) 62A	Herbert silt loam, 0 to 2 percent slopes	0.0	0.0	213	61	3.00	0	0.74
	Weighted Average			**203**	**60**	**3.86**	**0.0**	**0.81**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 64.75
COUNTY: Kane
TOWNSHIP: Kaneville Township
SECTION: 12

FARMER: Dale Schramer
ADDRESS: 4N460 Meredith Rd
Maple Park, IL 60151
PHONE #:

Metal Loadings in Pounds per Ac

Source of biosolids
1 Bensenville
2 Elmhurst
3 Wheaton
4 Downers Grove Sanitary District
5 Village of Addison-A.J. LA Rocca
6 Village of East Dundee
7 Salt Creek
8 Aurora Lime

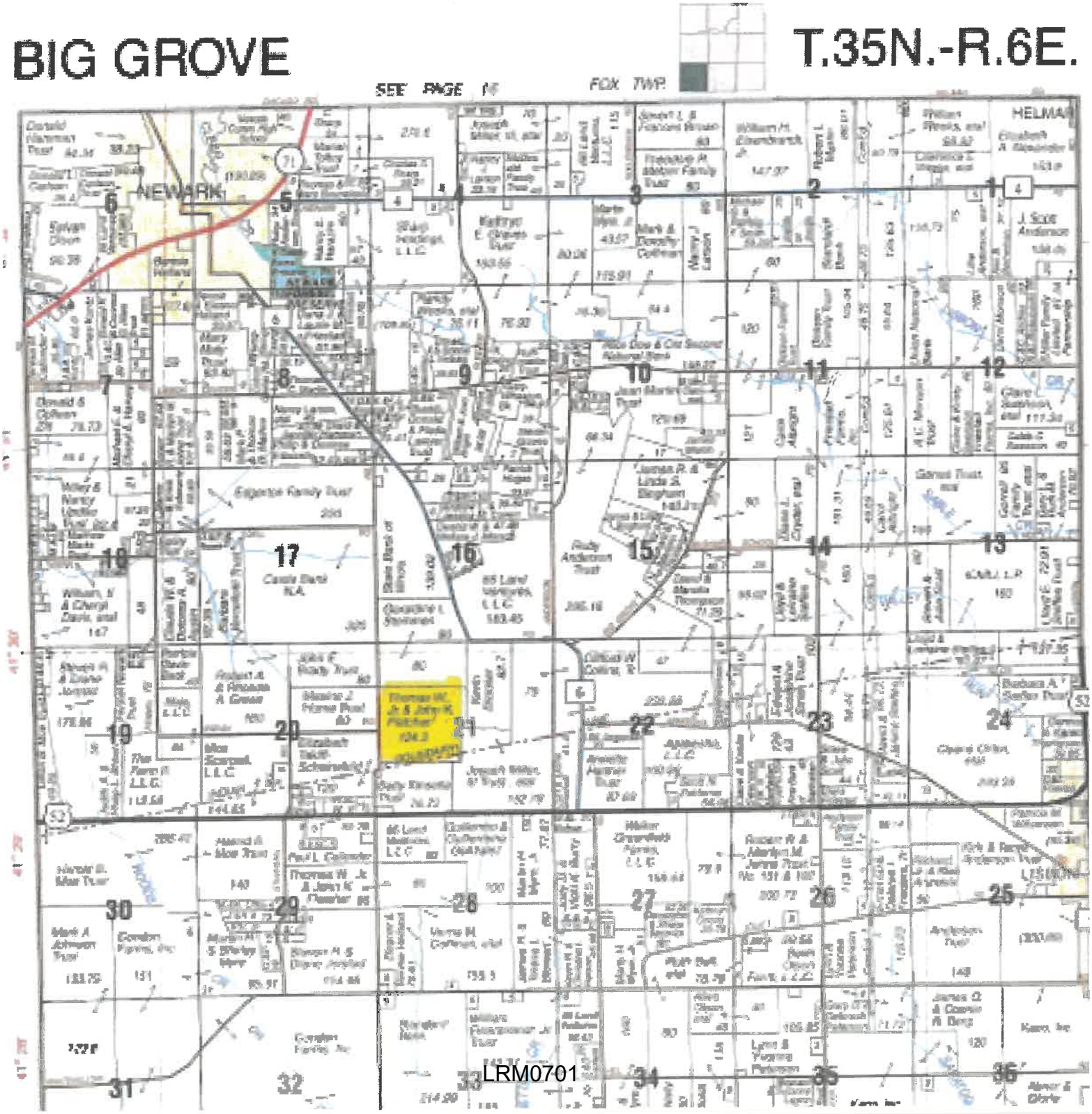
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Oct-19	0	1.72	2.83	0.12	0.19	2.36	0.02	0	0.02	0.04					936	117.61
2	Oct-19	0.01	6.64	6.38	0.25	0.3	6.31	0.06	0.01	0.02	0.11		pci/g			1563	293.84
3	Oct-19	0.01	5.92	5.58	0.17	0.31	6.95	0.03	0	0.05	0.15	0.0130	pci/g			715	193.04
4	Dec-24	0.03	5.33	4.33	0.22	0.18	6.41	0.07	0	0.07	0.09		pci/g		2320		271.82
5	Dec-24	0	0.14	0.48	0.01	0.01	0.27	0	0	0	0				100		25.47
7	Dec-24	0	1.35	1.6	0.21	0.11	2.57	0.01	0	0.02	0.03				579		76.19
8	Dec-24	0.011	0.135	0.882	0.061	0.011	0.176	0	0	0	0	0.022	12.3 pci/g			642.63	223.96
6	Dec-24	0	0.13	0.13	0	0.01	0.12	0	0	0	0				25		3.82
	TOTAL	0.06	21.37	22.21	1.04	1.12	25.17	0.19	0.01	0.18	0.42	0.0350	pci/g				
	%of LIMIT	0.6	8.5	2.5	1	0.1	5	0.2	0	2.3	2.6						

1	Background Radium	1.004	pci/g
2	Site Limit	2.004	pci/g
3	Cumulative Total to Date	1.04	pci/g
4	% of Total Cumulative Limit	51.85	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium is remainder of limit after background is removed
4 Includes Background and Applied Radiums

Dana Friested

KE Dana Friested 1
129 acres
Kendall County
Big Grove Township
Section 21



Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 7



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	21-35N-6E
Township:	Big Grove township
Acres:	129.5

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 541B	Graymont silt loam, 2 to 5 percent slopes	64.4	49.7	202	59	4.00	0	0.81
(b) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	21.8	16.8	221	67	5.50	0	0.88
(c) 60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	21.5	16.6	171	53	2.00	0	0.53
(d) 224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	16.6	12.8	153	47	2.00	0	0.57
(e) 224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded	4.6	3.6	140	44	1.25	0	0.49
(f) 541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.7	0.5	194	56	3.00	0	0.70
	Weighted Average			**191**	**57**	**3.56**	**0.0**	**0.73**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 129
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 21

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 27
2 Aurora Lime

Metal Loadings in Pounds per Acre

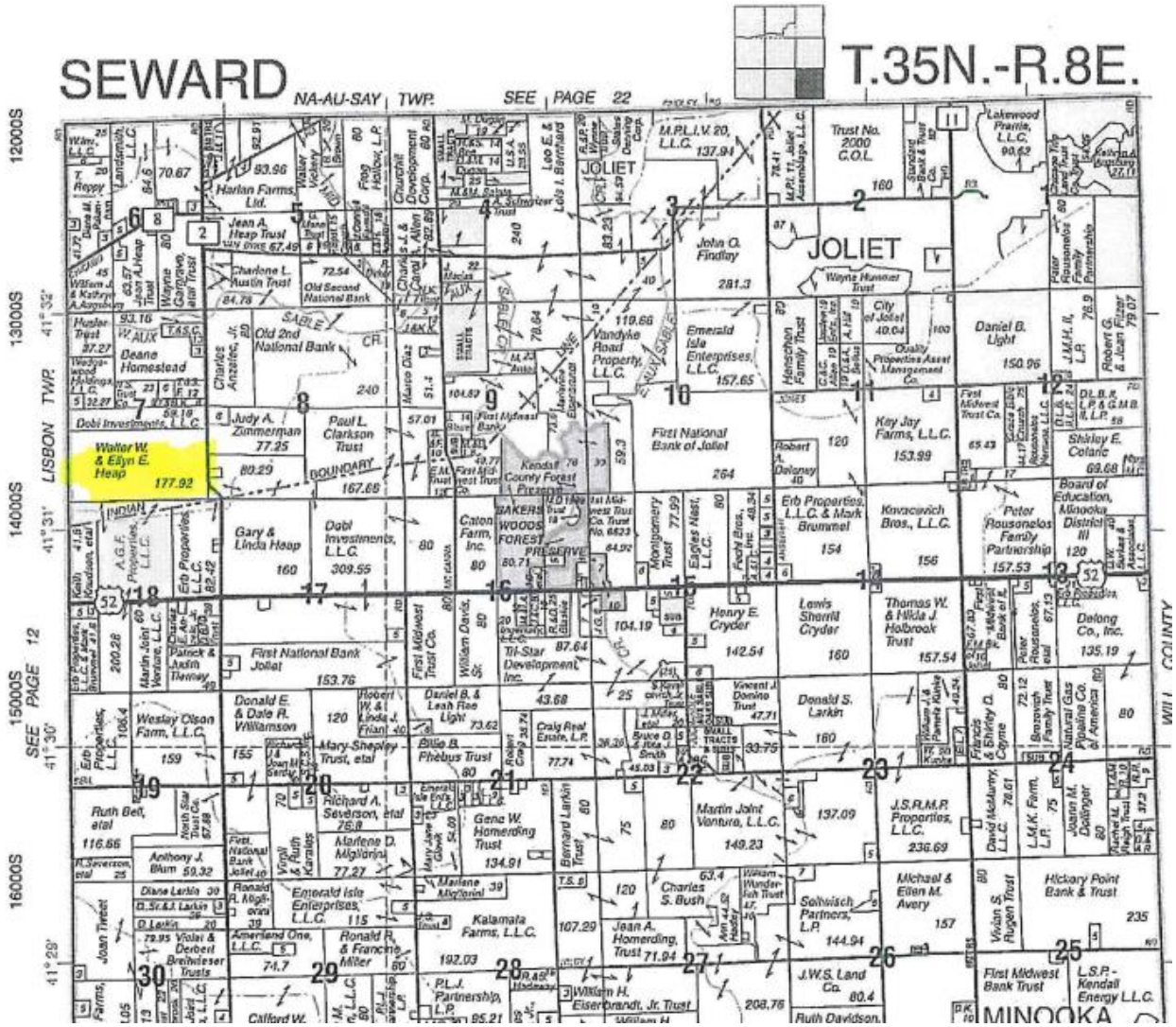
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Oct-24	0.03	5.75	6.48	0.53	1.2	12.45	0.14	0.00	0.14	0.20					4549.65	914.48
2	Dec-24	0.010	0.123	0.801	0.055	0.010	0.160	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			1165.42	410.38
TOTAL		0.04	5.87	7.28	0.59	1.21	12.61	0.14	0	0.14	0.2	0.020	pci/g				
%of LIMIT		0.4	2.3	0.8	0.6	0.1	2.5	0.1	0	1.8	1.2						

1	Background Radium	2.480	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.500	pci/g
4	% of Total Cumulative Limit	83.33	%

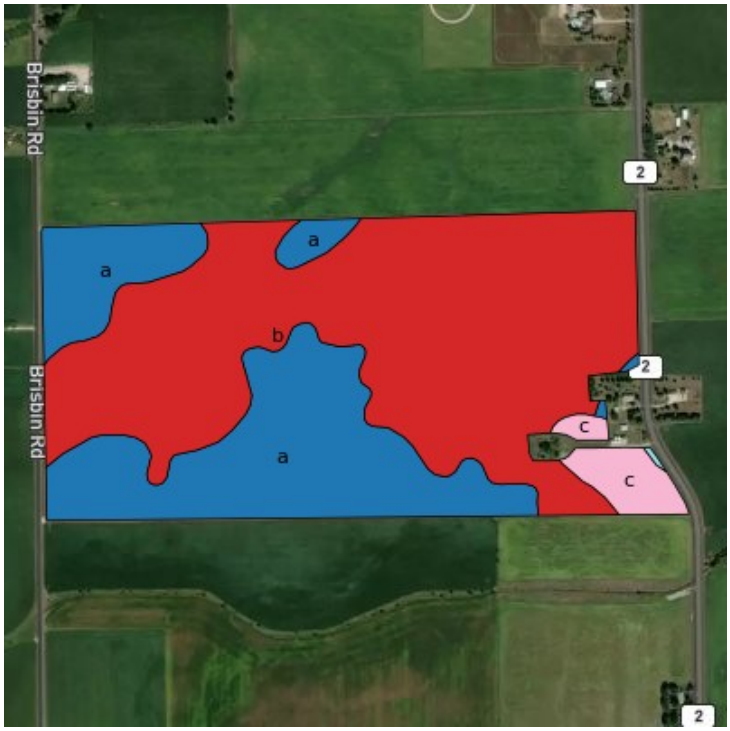
1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Dana Friested

KE Dana Friested 2
169 acres
Kendall County
Seward Township
Section 7



Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 2



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	7-35N-8E
Township:	Seward township
Acres:	169.4

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 91A	Swygert silty clay loam, 0 to 2 percent slopes	90.7	53.5	179	55	4.00	0	0.63
(b) 235A	Bryce silty clay, 0 to 2 percent slopes	72.1	42.6	179	56	5.50	0	0.56
(c) 69A	Milford silty clay loam, 0 to 2 percent slopes	6.5	3.8	192	59	5.25	0	0.67
(d) 189A	Martinton silt loam, 0 to 2 percent slopes	0.1	0.1	198	61	4.50	0	0.86
	Weighted Average			**180**	**56**	**4.69**	**0.0**	**0.60**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: KE Dana Friested 2
ACREAGE: 169
COUNTY: Kendall
TOWNSHIP: Seward
SECTION: 7
FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Aug-20	0.04	5.43	7.56	0.51	1.06	9.78	0.1	0.01	0.06	0.19		
2	Aug-20	0.012	0.051	0.634	0.036	0.003	0.085	0.000	0.000	0.000	0.000	0.006	4.1 pci/g
2	**Dec-24**	0.006	0.073	0.479	0.033	0.006	0.095	0.000	0.000	0.000	0.000	0.012	12.3 pci/g
	TOTAL	0.06	5.55	8.67	0.58	1.07	9.96	0.1	0.01	0.06	0.19	0.018	pci/g
	%of LIMIT	0.6	2.2	1	0.6	0.1	2	0.1	0	0.8	1.2		

1	Background Radium	0.690	pci/g
2	Site Limit	1.690	pci/g
3	Cumulative Total to Date	0.708	pci/g
4	% of Total Cumulative Limit	41.89	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

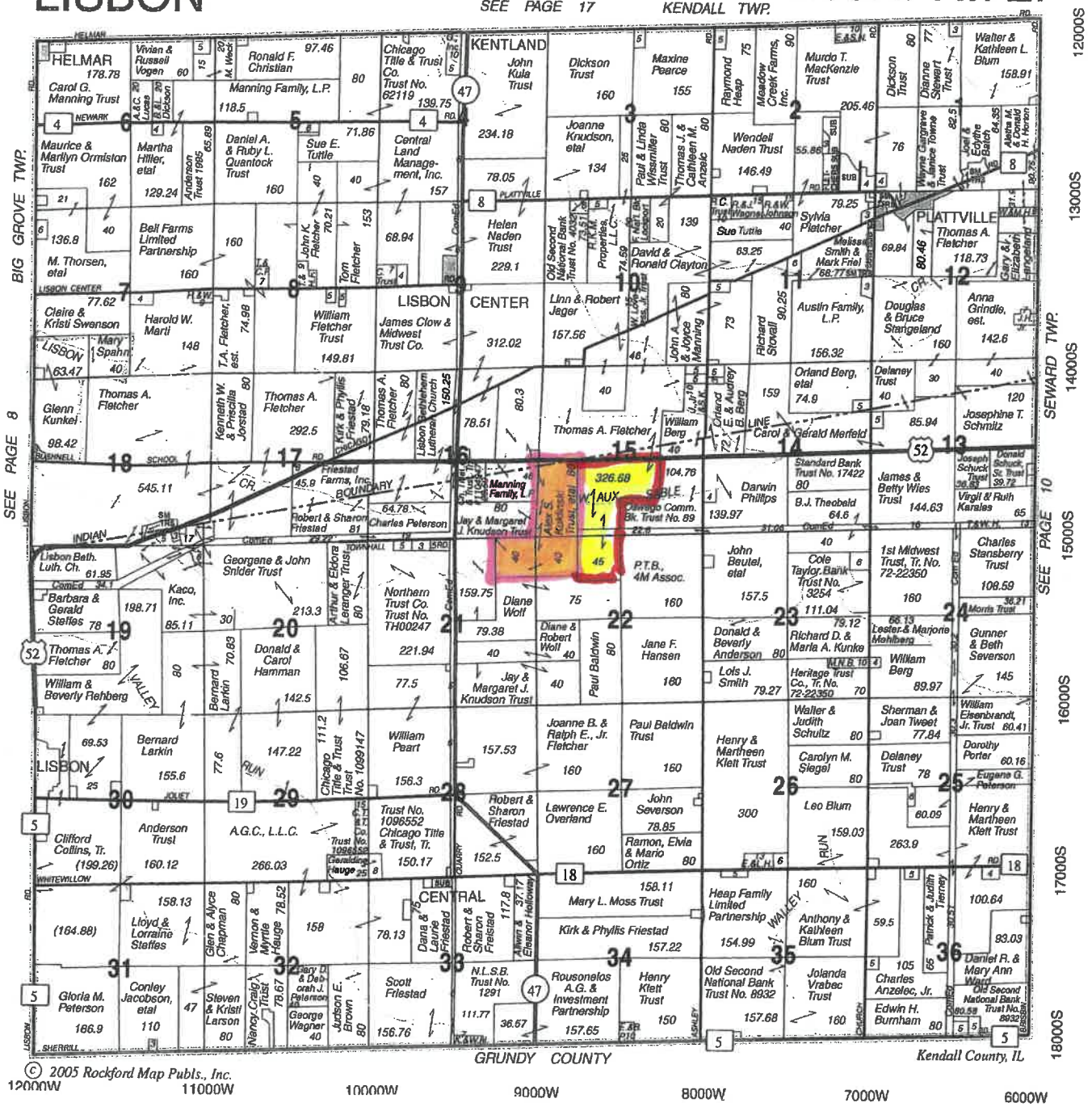
Dana Friested

KE Dana Friested 1
314
Kendall county
Lisbon

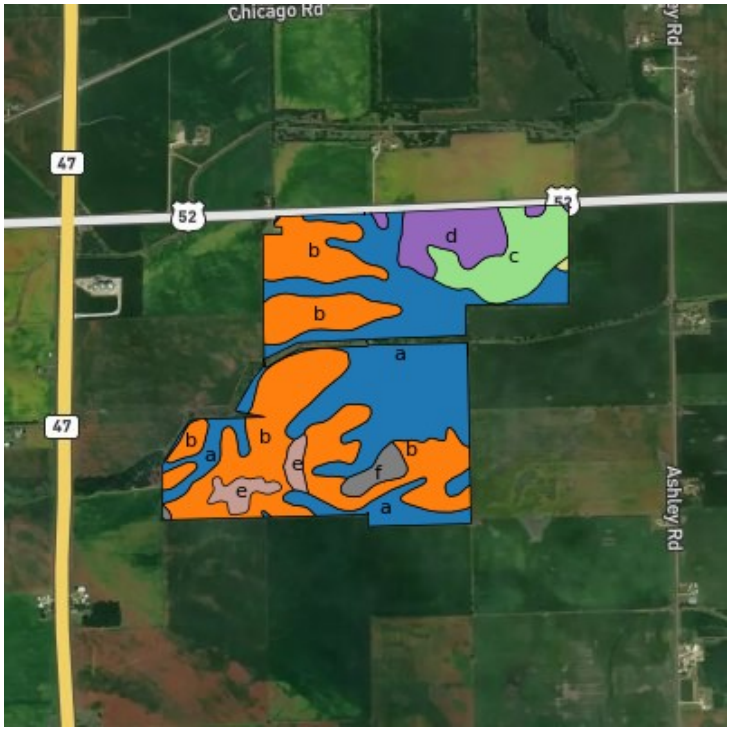
LISBON

SEE PAGE 17 KENDALL TWP.

T.35N.-R.7E.


HELMAR
KENTLAND
LISBON CENTER
PLATTVILLE
BIG GROVE TWP.
SEWARD TWP.
SEE PAGE 8
SEE PAGE 10
GRUNDY COUNTY
Kendall County, IL
Manning Family, L.P.
Dickson Trust
Maxine Pearce
Murdo T. MacKenzie Trust
Walter & Kathleen L. Blum
Maurice & Marilyn Ormiston Trust
Martha Hiller, etal
Daniel A. & Ruby L. Quantock Trust
Sue E. Tuttle
Central Land Management, Inc.
Joanne Knudson, etal
Wendell Naden Trust
Bell Farms Limited Partnership
Helen Naden Trust
Sylvia Fletcher
Thomas A. Fletcher
Claire & Kristi Swenson
Harold W. Marti
William Fletcher Trust
James Clow & Midwest Trust Co.
Linn & Robert Jager
Austin Family, L.P.
Douglas & Bruce Steigeland
Anna Grindle, est.
Glenn Kunkel
Kenneth W. & Priscilla Jorstad
Thomas A. Fletcher
Kirk & Phyllis Friestad
Lisbon Bethlehem Lutheran Church
Thomas A. Fletcher
Orland Berg, etal
Delaney Trust
Josephine T. Schmitz
Friestad Farms, Inc.
Robert & Sharon Friestad
Charles Peterson
Jay & Margaret J. Knudson Trust
Darwin Phillips
B.J. Theobald
James & Betty Wies Trust
Virgil & Ruth Karales
Lisbon Beth. Luth. Ch.
Georgene & John Snider Trust
Kaco, Inc.
Northern Trust Co. Trust No. TH00247
Diane Wolf
P.T.B., 4M Assoc.
John Beutel, etal
Cole Taylor Bank Trust No. 3254
1st Midwest Trust, Tr. No. 72-22350
Charles Stansberry Trust
Barbara & Gerald Steffes
Thomas A. Fletcher
William & Beverly Rehberg
Donald & Carol Hamman
Jay & Margaret J. Knudson Trust
Jane F. Hansen
Donald & Beverly Anderson
Richard D. & Maria A. Kunke
Lois J. Smith
Heritage Trust Co., Tr. No. 72-22350
William Berg
Gunner & Beth Severson
Bernard Larkin
William Peart
Joanne B. & Ralph E., Jr. Fletcher
Paul Baldwin Trust
Henry & Martheen Klett Trust
Walter & Judith Schultz
Carolyn M. Siegel
Sherman & Joan Tweet
William Eisenbrandt, Jr. Trust
Dorothy Porter
Eugene G. Peterson
Clifford Collins, Tr. (199.26)
Anderson Trust
A.G.C., L.L.C.
Trust No. 1096552 Chicago Title & Trust, Tr.
Robert & Sharon Friestad
Lawrence E. Overland
John Severson
Ramon, Elvia & Mario Ortiz
Leo Blum
Henry & Martheen Klett Trust
Lloyd & Lorraine Steffes
Glen & Alyce Chapman
Vernon & Myrtle Hauge
Dana & Laurie Friestad
Robert & Sharon Friestad
Mary L. Moss Trust
Kirk & Phyllis Friestad
Heap Family Limited Partnership
Anthony & Kathleen Blum Trust
Patrick & Judith Tierney
Daniel R. & Mary Ann Ward
Gloria M. Peterson
Conley Jacobson, etal
Steven & Kristi Larson
Nancy Craig Trust
Scott Friestad
N.L.S.B. Trust No. 1291
Rousonelos A.G. & Investment Partnership
Henry Klett Trust
Old Second National Bank Trust No. 8932
Jolanda Vrabec Trust
Charles Anzelec, Jr.
Edwin H. Burnham
Old Second National Bank Trust No. 8932
326.68
AUX
45
40
Manning Family, L.P.
Chicago Comm. Bk. Trust No. 89
Standard Bank Trust No. 17422
Lisbon Center Cemetery
Lisbon Cemetery
Lisbon Beth. Luth. Ch.
Lisbon Bethlehem Lutheran Church
Old Second National Bank Trust No. 4051
Old Second National Bank Trust No. 8932
Grundy County Highway Dept.
Gerald Merfeld
Carol
Sue Tuttle
Melissa Smith & Mark Friel
Gary & Elizabeth Engeland
Joel & Edythe Balch
Alesha M. & Donald H. Hanson
Wayne Cangrere & Janice Towne Trust
Dianne Stewart Trust
Dickson Trust
Meadow Creek Farms, Inc.
Raymond Heap
Thomas J. & Cathleen M. Anzelc
Paul & Linda Wissmiller Trust
John K. Fletcher
Tom Fletcher
T.A. Fletcher, est.
Mary Spahn
Thomas A. Fletcher
Arthur & Elaine Leranger Trust
Bernard Larkin
Chicago Title & Trust Trust No. 1099147
Trust No. 1096552
Chicago Title & Trust Co. Trust No. 62119
Trust No. 1096552
Geraldine Gauge
Allen & Eleanor Holloway
Jay D. & Deborah J. Peterson
George Wagner
Judson E. Brown
Old Second National Bank Trust No. 4051
Old Second National Bank Trust No. 8932
Old Second National Bank Trust No. 8932
Joseph Schuck, Sr. Trust
Donald Schuck, Sr. Trust
Monts Trust
Lester & Marjorie Mehlberg
Dianne Stewart Trust
Joseph Schuck Trust
Wayne Cangrere & Janice Towne Trust
Alesha M. & Donald H. Hanson
Gary & Elizabeth Engeland
Joel & Edythe Balch
Old Second National Bank Trust No. 8932
Old Second National Bank Trust No. 8932
Old Second National Bank Trust No. 8932

Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 1



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	15-35N-7E
Township:	Lisbon township
Acres:	314.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 152A	Drummer silty clay loam, 0 to 2 percent slopes	128.0	40.7	221	67	5.50	0	0.83
(b) 149A	Brenton silt loam, 0 to 2 percent slopes	119.8	38.1	223	64	4.00	0	0.93
(c) 69A	Milford silty clay loam, 0 to 2 percent slopes	28.5	9.0	192	59	5.25	0	0.67
(d) 189A	Martinton silt loam, 0 to 2 percent slopes	22.3	7.1	198	61	4.50	0	0.86
(e) 206A	Thorp silt loam, 0 to 2 percent slopes	9.3	2.9	196	59	5.00	0	0.89
(f) 148A	Proctor silt loam, 0 to 2 percent slopes	6.4	2.0	210	61	3.50	0	0.90
(g) 67A	Harpster silty clay loam, 0 to 2 percent slopes	0.4	0.1	208	61	5.00	0	0.79
(h) 148B	Proctor silt loam, 2 to 5 percent slopes	0.0	0.0	208	60	3.50	0	0.88
	Weighted Average			**216**	**64**	**4.78**	**0.0**	**0.86**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 314
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 16

FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Aurora Lime
2 Lagoon 28
3 Marathon

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sep-19	0.007	0.031	0.393	0.022	0.002	0.053	0.00	0.00	0.00	0.00	0.0040				869.23	277.70
2	Oct-19	0.060	8.010	11.510	0.860	1.600	16.280	0.300	0.010	0.100	0.230					4655.43	1489.74
3	Oct-19	0.070	5.730	6.440	0.560	1.340	11.230	0.130	0.010	0.060	0.150					2331.96	939.78
1	Oct-19	0.008	0.033	0.414	0.024	0.002	0.055	0.000	0.000	0.000	0.000	0.0040				767.8	295.53
1	Dec-25	0.003	0.037	0.239	0.017	0.003	0.048	0.000	0.000	0.000	0.000	0.006	12.3 pci/g			853.63	298.09
TOTAL		0.15	13.84	19	1.48	2.95	27.67	0.43	0.02	0.16	0.38	0.014	pci/g				
%of LIMIT		1.5	5.5	2.1	1.5	0.3	5.5	0.4	0.1	2	2.4						

1	Background Radium	1.623	pci/g
2	Site Limit	2.623	pci/g
3	Cumulative total to Date	1.637	pci/g
4	% of Total Cumulative Limit	62.41	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Providing Green Solutions for Communities and Farmers.

Biosolids and **Lime** have been benefitting Illinois farms for over 30 years in the State of Illinois and around the country. ***Biosolids*** are a complete Organic Fertilizer that provide required nutrients for crop production. **High Calcium Lime** is an excellent pH adjuster and supply of elemental calcium. This letter is to inform you that local farmers in your area have requested to receive ***Biosolids* and/or *Lime*** spread on their fields. Stewart Spreading may be applying **Biosolids and/or Lime** to a field near your residence if weather conditions and field conditions are appropriate.

During spreading operations, you may observe ***Stewart Spreading's*** activities in the field. The **Biosolids/Lime** are delivered via semi-trucks, then unloaded in the field. The application (spreading) can take place within a few days or it could take up to several weeks, depending on the weather, current field conditions, cropping patterns and equipment availability. When conditions are acceptable, the **Biosolids/Lime** may be spread and incorporated immediately with the proper seasonal tillage.

If you have any questions, please call us at 815-695-5667

Greg Firrantello-CCA / Billie Marko-Office/ Rich Ellis-Agronomy Tech

Stewart Spreading Inc,.

The **Biosolids/Lime** can be applied during *three timeframes* throughout the growing season. The first season is ***prior to spring planting***. The second season is ***after the wheat is harvested in July.*** The third season begins **after the soybean/corn harvest in September/October** and lasts until the weather prevents field work from occurring. Biosolids may produce some odor. The odor is only temporary and will dissipate over time. By immediately incorporating the **Biosolids** with the proper tillage, the odor will be reduced. ***Lime has no odor. Thank you.***

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LRM0710

KA Schramer 2		6/24/2019 10/14/2023 9/15/2024
MICHAEL PROBST 216 BIRCH ST ELBURN, IL, 60119	Kane County Health Dept 1240 N Highland Ave Aurora, Il 60506	Sugar Grove Township PO Box 465 Sugar Grove, IL 60554
CARLSON, GLENN C & ALICE L DECLRN TRUST 45W510 KESLINGER RD ELBURN, IL, 60119	NELSON, ANGELA D 45W647 KESLINGER RD ELBURN, IL, 60119-9778	EMERALD VALLEY FARMS LP, % MARTIN & ASSOCIATES PO BOX 70 WATSEKA, IL, 60970
PROBST FAMILY LIMITED PARTNERSHIP A, MICHAEL PROBST 216 BIRCH ST ELBURN, IL, 60119	KESLINGER ROAD INVESTMENT GROUP LLC, PO BOX 897 GLENVIEW, IL, 60025-0897	LAWRENCE LAND HOLDINGS LLC PO BOX 2207 330 W BROADWAY STE 202 WEST MEMPHIS, AR, 72303-2207

KE Dana Friested 7

07-21-100-004
07-21-300-005

3/28/2022
11/4/2022
9/17/2024

KIP ALAN & TAMMIE K JONES
1601 FROSTWOOD DR
TYLER, TX, 75703

DANA & LAURIE FRIESTAD
9218 WHITEWILLOW RD
MORRIS, IL, 60450

Resident of
105 TWIN OAK DR #203
JOLIET, IL, 60431

ELIZABETH TAKIFF SCHEINEFELD
P O BOX 546
HIGHLAND PARK, IL, 60035

BETTY L FAM LAND TRUST
2975 N 28TH RD
SENECA, IL, 61360

FRIESON DAIRY LLC
10065 CHICAGO RD
NEWARK, IL, 60541

FRIESON DAIRY LLC
10065 CHICAGO RD
NEWARK, IL, 60541

GERALDINE L STEMMEN
1833 COLUMBUS ST
OTTAWA, IL, 61350

KE Dana Friested 2		9/24/24
09-07-400-003	NOT ALL INFORMATION COULD BE ABTAINED FROM COUNTY SOURCE	
KNUDSON, KEITH, ET AL 1769 RED WILLOW RD MORRIS, IL 60450	AUGSBURG, WILLIAM J & KATHRYN A 24724 W RED OAK LN JOLIET, IL 60404	AGF PROPERTIES LLC 404 DEEPWOOD CT NAPERVILLE, IL 60540
CTLTC PR6925, % JAMES E SCHMITZ 1615 SE 46TH LN #202 CAPE CORAL, FL 33904	HEAP WALTER W CREDIT SHELTER TRUST &, HEAP ELLYN E REVOC TR 13869 GROVE RD MINOOKA, IL 60447	ERB PROPERTIES LLC, 26124 SEIL RD SHOREWOOD, IL 60404
AUGSBURG, WILLIAM J & KATHRYN A 24724 W RED OAK LN JOLIET, IL 60404	HEAP WALTER W CREDIT SHELTER TRUST &, HEAP ELLYN E REVOC TRUST 13869 GROVE RD MINOOKA, IL 60447	ANZELEC, CHARLES JR 25556 NORTHCREST DR MINOOKA, IL 60447
MARTIN JOINT VENTURE LLC, P O BOX 291 MINOOKA, IL 60447-0291	AGF PROPERTIES LLC 404 DEEPWOOD CT NAPERVILLE, IL 60540	WYSE, ROBERT R & DAWN M 5230 RTE 52 MINOOKA, IL 60447

KE Friestad Dana 1

Sent 9/24/2024

Kendall County Health Department
811 John Street
Yorkville, IL 60560

Tom Richards-Highway Commissioner
202 S. East Street
Newark, IL 60541

Do Not Send
Bell Ruth Fletcher Etal
8715 Route 52
Newark, IL 60541

Do Not Send
Vickery Patriciaa Etal
15450 Route 47
Newark IL 60541

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 14, 2024

2.) Name of User: Dale Schramer

3.) Address of User: 4N460 Meredith Rd Maple Park IL 60151

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KA Schramer 2

6.) Size of Area Where Lime is to be Used: 64.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ____ lbs. per dry ton
Copper (Cu) ____ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisons be adhered to:

1. Climate Conditions:

   a. Sludge application shall not be permitted on land during precipitation.

   b. Sludge application shall not be permitted on land which is saturated or with ponded water.

   c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than 1/4 inch rainfall within the 24 hour period preceding the application time.

   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

2. Buffer Area Requirements

   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

   b. Surface application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

   c. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

3. Soil and Geologic Conditions:

   a. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre

   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

   a. Off-site interim storage of liquid sludge prior to land application is not allowed.

   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

6/14/24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User:

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 7

6.) Size of Area Where Lime is to be Used: 129 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: Kendall County, Seward Township, Section 7 KE Dana Friested 2

6.) Size of Area Where Lime is to be Used: 169 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora LIme
Amount Applied approx. 2000 wet tons
Years Applied 2020

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User:

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 1

6.) Size of Area Where Lime is to be Used: 314 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

SPECIFIC REQUIREMENTS FOR THE USE OF WATER TREATMENT PLANT SLUDGE

The sludge that you are obtaining contains the following:

Calcium Carbonate Equivalent ____%
pH ____
Barium (Ba) ___ lbs. per dry ton
Cadmium (Cd) ___ lbs. per dry ton
Copper (Cu) ___ lbs. per dry ton
Lead (Pb) ___ lbs. per dry ton
Nickel (Ni) ___ lbs. per dry ton
Selenium (Se) ___ lbs. per dry ton
Zinc (Zn) ___ lbs. per dry ton

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   d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area or forage crop exists between the sludge applied land and any surface water or water well.

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   a. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

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   b. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

4. Interim Storage and Application Restrictions:

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   b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

Dana T. Neital 6-10-24

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.

EXHIBIT 10

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Jan-23**

Biosolids Field Record

KE Seth Sleezer 65

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	329.62	33.49	110.39
Total			329.62		110.39

Biosolids Field Record

KE Swenson 23

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	141.35	33.49	47.34
Total			141.35		47.34

Biosolids Field Record

KE Stewart 4

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/9/2023	1/9/2023	City of Aurora - Lime	356.56	33.49	119.41
1/10/2023	1/10/2023	City of Aurora - Lime	340.56	35.63	121.34
Total			697.12		240.75

Biosolids Field Record

KE Hudson Lake 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/10/2023	1/10/2023	City of Aurora - Lime	722.93	35.63	257.58
1/11/2023	1/11/2023	City of Aurora - Lime	753.07	38.94	293.25
Total			1476.00		550.83

EXHIBIT 10

Stewart Spreading - Land Application Report for January 2023

Confirmed: 5/15/2023

Receiving Farm:	KE Sleezer 65				
Acres:	61				
Application Date:	1/9/2023				
Wet Tons:	329.62				
% Solids	33.49				
Dry Tons	110.39	0.00		0.00	
Total Dry Tons:	110.39			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
1.8097			Cadmium	0.50	0.002
% Solids			Copper	7.3	#VALUE!
			Manganese	80.2	0.290
Wet Tons/Acre			Nickel	3.4	0.012
#DIV/0!			Lead	0.50	0.002
			Zinc	11.9	0.043
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	0.005

Receiving Farm:	KE Swenson 23				
Acres:	70				
Application Date:	1/9/2023				
Wet Tons:	141.35				
% Solids	33.49				
Dry Tons	47.34	0.00		0.00	
Total Dry Tons:	47.34			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
0.6763			Cadmium	0.50	0.001
% Solids			Copper	7.3	0.010
			Manganese	80.2	0.108
Wet Tons/Acre			Nickel	3.4	0.005
#DIV/0!			Lead	0.50	0.001
			Zinc	11.9	0.016
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	0.002

Receiving Farm:	KE Stewart 4				
Acres:	60				
Application Date:	1/9/2023	1/10/2023			
Wet Tons:	356.56	340.56			
% Solids	33.49	35.63			
Dry Tons	119.41	121.34		0.00	
Total Dry Tons:	240.75			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
4.0126			Cadmium	0.50	0.004
% Solids			Copper	7.3	0.059
			Manganese	80.2	0.644
Wet Tons/Acre			Nickel	3.4	0.027
#DIV/0!			Lead	0.50	0.004
			Zinc	11.9	0.095
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	0.011

Receiving Farm:	KE Hudson Lake 1				
Acres:	123				
Application Date:	1/10/2023	1/11/2023			
Wet Tons:	722.93	753.07			
% Solids	35.63	38.94			
Dry Tons	257.58	293.25		0.00	
Total Dry Tons:	550.83			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
4.4783			Cadmium	0.50	0.004
% Solids			Copper	7.3	0.065
			Manganese	80.2	0.718
Wet Tons/Acre			Nickel	3.4	0.030
#DIV/0!			Lead	0.50	0.004
			Zinc	11.9	0.107
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	0.012

Receiving Farm:					
Acres:					
Application Date:					
Wet Tons:					
% Solids					
Dry Tons	0.00	0.00		0.00	
Total Dry Tons:	0.00			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
#DIV/0!			Cadmium	0.50	#DIV/0!
% Solids			Copper	7.3	#DIV/0!
			Manganese	80.2	#DIV/0!
Wet Tons/Acre			Nickel	3.4	#DIV/0!
#DIV/0!			Lead	0.50	#DIV/0!
			Zinc	11.9	#DIV/0!
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	#DIV/0!

Receiving Farm:					
Acres:					
Application Date:					
Wet Tons:					
% Solids					
Dry Tons	0.00	0.00		0.00	
Total Dry Tons:	0.00			Dry Weight	Metal Loading
Dry Tons/Acre			Metals	Metal Conc. (mg/kg)	lb/acre/year
#DIV/0!			Cadmium	0.50	#DIV/0!
% Solids			Copper	7.3	#VALUE!
			Manganese	80.2	#DIV/0!
Wet Tons/Acre			Nickel	3.4	#DIV/0!
#DIV/0!			Lead	0.50	#DIV/0!
			Zinc	11.9	#DIV/0!
				pCi/g	Soil Increase (pCi/g)
			Radium	5.38	#DIV/0!

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	NS
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	NS
Radium 228 >	2.48+/-0.17		pCi/g dry	NS
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	02-03-300-019,02-03-300-016
Section Number	3	Township *(Number and Direction)*	T37N
Tillable Acres	61	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Seth Sleezer 65	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.66	+/-	0	Radium-228	021	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/9/23	110.39	1.81	61	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 11, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, February 24, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Seth Sleezer 65 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230019 is in Table 1. Stewart Spreading identified the sample as Seth Sleezer 65 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230019
	Seth Sleezer 65 (Soil)
Ac-228	< 0.21
Ra-228[1]	< 0.21
Pb-214	< 0.09^
Bi-214	0.66
Ra-226[2]	0.66
Total Radium[3]	< 0.87

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	KE Seth Sleezer 65	COUNTY:	Kendall
ACREAGE:	61	TOWNSHIP:	Bristol
		SECTION:	3
FARMER:	Seth Sleezer		
ADDRESS:	7214 Caton Farm Road		
	Yorkville, IL 60560		

Source of biosolids

1 Aurora Lime
2
3
4

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Dec-22	0.003	0.039	0.430	0.018	0.003	0.064	0.000	0.000	0.000	0.000	0.007	5.38 pci/g
1	Jan-23	0.002	0.026	0.289	0.012	0.002	0.043	0.000	0.000	0.000	0.000	0.005	5.38 pci/g
2													
3													
4													
	TOTAL	0.01	0.07	0.72	0.03	0.01	0.11	0	0	0	0	0.012	pci/g
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0		

1	Background Radium	0.870	pci/g
2	Site Limit	1.870	pci/g
3	Cumulative Total to Date	0.882	pci/g
4	% of Total Cumulative Limit	47.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Seth Sleezer

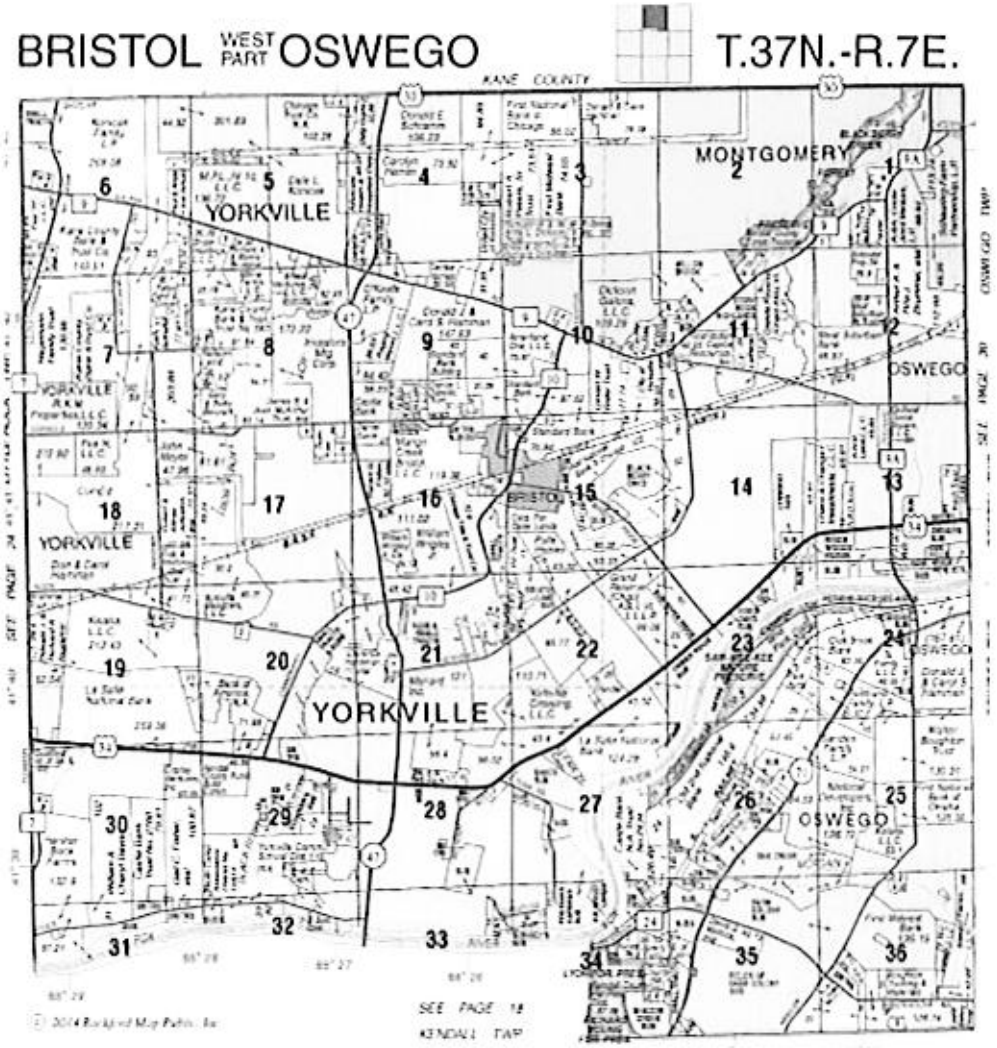
Sleezer 65

61 acres

Kendall County

Bristol Township

Section 3



Seth Sleezer

Sleezer 65
61 acres
Kendall County
Bristol Township
Section 3

67A	Harpster silty clay loam, 0 to 2 percent slopes	8.7	14.1%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	23.1	37.1%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	22.2	35.8%	0.60 to 2.00 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	5.3	8.5%	0.20 to 0.60 in/hr
663B	Clare silt loam, 2 to 5 percent slopes	2.8	4.5%	0.60 to 2.00 in/hr



WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: February 2 2022

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 65

6.) Size of Area Where Lime is to be Used: 61 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residua's been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Scott Sleyi, VI — 2/2/22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora IEPA ID # IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-29-100-011,05-29-100-012
Section Number	29	Township *(Number and Direction)*	T36-37N
Tillable Acres	70	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-S" or "KA-98"):		KE Swenson 23	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.78	+/-	0	Radium-228	007	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | PRINTED NAME | DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/9/23	47.34	.68	70	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 11, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM0732

RSSI

5312 Denton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Tuesday, May 09, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Swenson 23 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230139 is in Table 1. Stewart Spreading identified the sample as KE Swenson 23 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230139
	KE Swenson 23 (Soil)
Ac-228	< 0.07
Ra-228[1]	< 0.07
Pb-214	0.70
Bi-214	0.85
Ra-226[2]	0.78
Total Radium[3]	< 0.85

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and the average of Pb-214 and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at

METAL LOADING RECORD

SITE NUMBER	23	COUNTY	Kendall
ACREAGE	70	TOWNSHIP	Kendall
		SECTION	29

Source of Biosolids
1 Aurora Lime
2
3

FARMER	Claire Swenson
ADDRESS	13620 Lisbon Rd
	Newark, IL 60541
	815-736-6163

Metal Loadings in Pounds per Acre

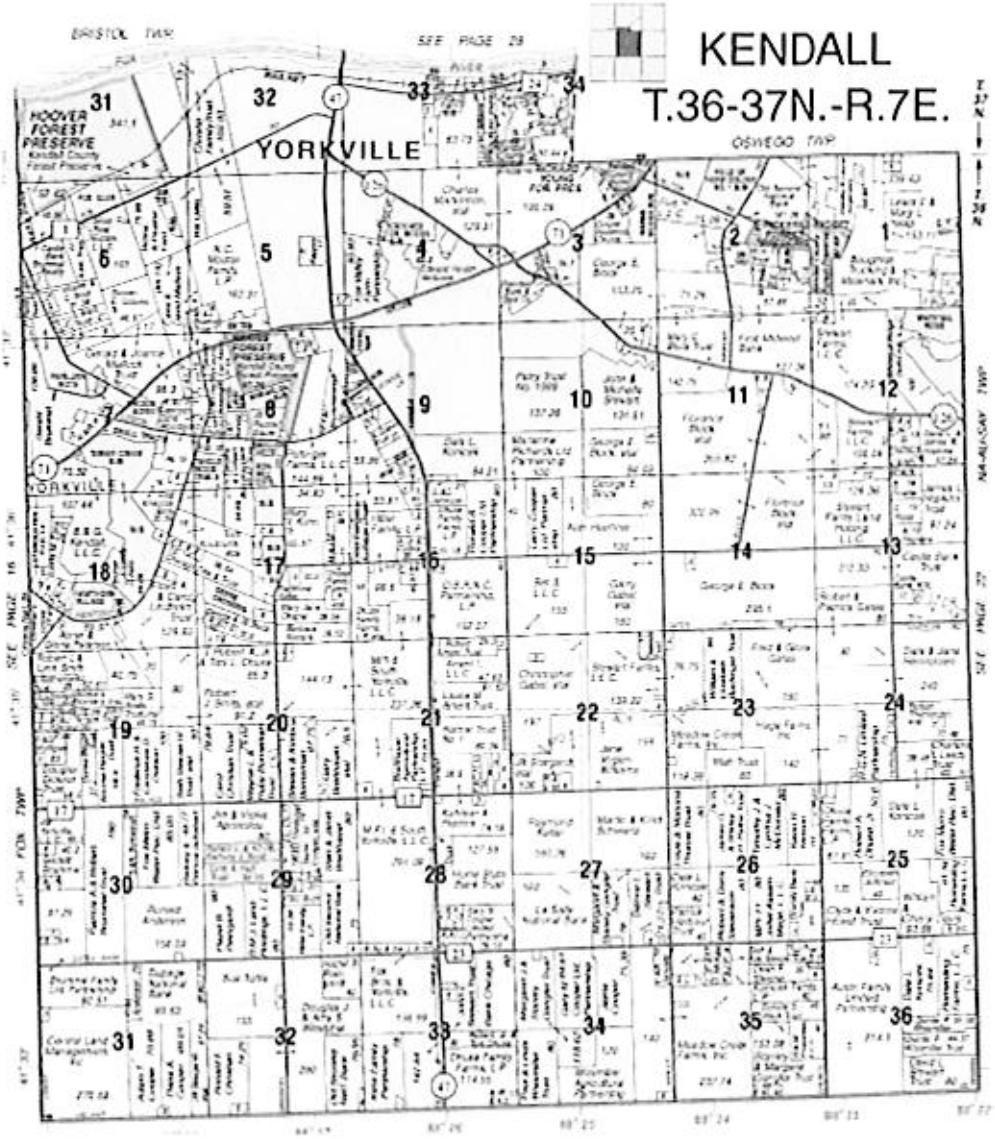
DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium pCi/g		Gallons	Cu. Yrds	Wet Tons	Dry Tons
January-23	0.001	0.01	0.11	0.005	0.001	0.018	0	0	0	0	0.0030	5.38 pci/g			141.55	47.54
TOTAL	0	0.01	0.11	0.01	0	0.02	0	0	0	0	0.003	pci/g				
%of LIMIT	0	0	0	0	0	0	0	0	0	0						

Background Radium	0.850	pci/g
Site Limit	1.850	pci/g
Cumulative total to Date	0.853	pci/g
% of Total Cumulative Limit	46.09	%

1 Background Radium determined from soil test results
2 Radium Concentration + soil can not exceed the limit
3 Cumulative total includes background and application
4 Includes Background and Applied Radium

Claire Swenson
13620 Lisbon Road
Newark IL 60541
815-736-6163

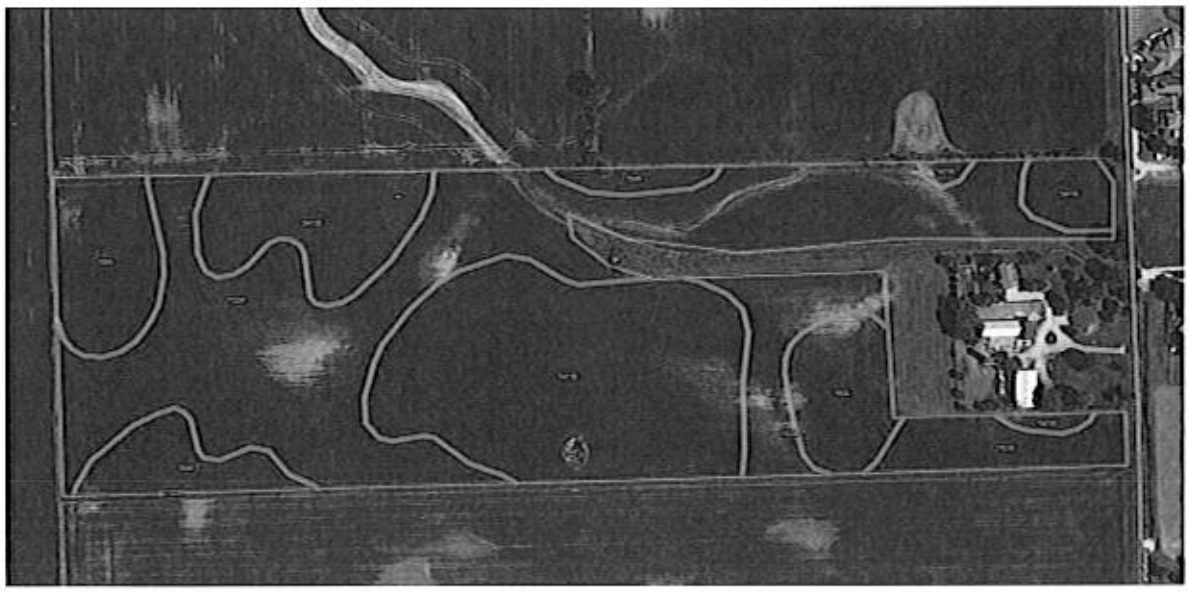
KE Swenson 23
70 Acres
Kendall County
Kendall Township
Section 29



Claire Swenson
13620 Lisbon Road
Newark IL 60541
815-736-6163

KE Swenson 23
70 Acres
Kendall County
Kendall Township
Section 29

59A	Lisbon silt loam, 0 to 2 percent slopes	6.3	16.4%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	18.8	48.6%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.1	0.4%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	13.4	34.7%	0.06 to 0.20 in/hr



WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2022

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 23

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Chasi Swenson 8/15/22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

Field and Land Application Reporting Form
32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-10-200-007
Section Number	10	Township *(Number and Direction)*	T36-37N
Tillable Acres	60	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Stewart 4	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.42	+/-	0.11	Radium-228	1.05	+/-	0.37

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/9/23 and 1/10/23	240.75	4	60	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 11, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

November 26, 2012

Client: Stewart Spreading, Inc
Address: 3870 N. Route 71
Sheridan, IL 60551

Received: 11/13/2012
Project #: N/A

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 4	1227216-04	07-Nov-12	Radium-226	0.42 +/- 0.11	pCi/g	S	9315	1	0.4	23-Nov-12	CM

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 4	1227216-04	07-Nov-12	Radium-228	1.05 +/- 0.37	pCi/g	S	9320	1	0.4	23-Nov-12	CM

"*Analytical Integrity*" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 · Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.seltek.com

METAL LOADING RECORD

SITE NUMBER	KE Stewart 4	COUNTY	Kendall
ACREAGE	60	TOWNSHIP	Kendall
		SECTION	10
FARMER	John Stewart		
ADDRESS	3872 North Route 71		
	Sheridan, IL 60551		
PHONE #	815-496-1460		

Source of biosolids
1 Aurora - Lime
2 MWRDGC - Egan
3 LASMA - Marathon
4 Glenbard
5 Marseilles
6 DuPage
7 Lasma-Lagoon 28
8 Lasma-Lagoon 29
9 Lasma Lagoon 30
10 Lasma Lagoon 24
11 Plainfield

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	Lab Result pci/g
1	11/27/2012	0.000	0.083	1.490	0.060	0.018	0.370					0.022	pci/g			649.2	251.31	11.1
2	June 2013	0	1.97	1.83	0.18	0.1	2.04	0.02	0	0.02	0.02					666.34	182.39	
2	July 2013	0	2.41	2.12	0.19	0.11	2.55	0.02	0	0.02	0.03					841.4	201.18	
3	July 2013	0.06	7.36	8.12	0.73	1.91	14.52	0.06	0.02	0.06	0.17					2343.36	864.71	
4	Jun-15	0	0.93	0.21	0.02	0.04	0.84	0.001	0.002	0.09	0.09				560		86.06	
5	Jun-15	0.01	1.26	11.1	0.04	0.11	1.47	0.0198	0.0036	0.04	0.01	0.018			309		78.72	
6	July 2015	0.01	2.82	1.98	0.06	0.1	3.32	0.02	0.01	0.02	0.04				1352		168.87	
6	Aug 2015	0	0.68	0.84	0.02	0.04	0.87	0	0	0	0.01				360		46.64	
7	Nov 2015	0.06	4.96	3.97	0.55	1.44	10.57	0.07	0.01	0.06	0.12					2566.92	606.36	
8	Nov 2016	0.010	0.910	0.690	0.090	0.210	1.870	0.010	0.000	0.010	0.18					816.02	110.43	
8	Aug 2018	0.060	8.030	8.730	0.550	1.150	10.330	0.130	0.010	0.130	0.150					2684.12	664.31	
9	Oct 2019	0.080	10.170	13.120	1.000	2.200	19.990	0.310	0.010	0.100	0.290					2277.18	633.06	
10	Sept 20	0.110	12.580	14.080	1.280	2.780	24.530	0.420	0.020	0.140	0.390					2484.82	819.91	
11	September 21	0.014	1.070	0.820	0.060	0.020	1.460	0.020	0.001	0.020	0.030				756		121.92	
8	September 21	0.030	5.060	6.390	0.450	0.870	8.850	0.110	0.000	0.110	0.180					1453	344.36	
1	March 22	0.007	0.032	0.848	0.029	0.007	0.078	0.000	0.000	0.000	0.000	0.005				417.37	182.68	
Proj 1	January 2023	0.004	0.058	0.642	0.027	0.004	0.095	0.000	0.000	0.000	0.000	0.011	5.38 pci/g			697.12	240.75	
	TOTAL	0.420	57.290	72.913	6.330	11.110	103.760	1.230	0.090	0.840	1.700	0.056	pci/g					
	%of LMT	4.2	22.9	8.1	5.3	1.1	20.8	1.2	0.7	12.5	10.6							

1	Background Radium	1.470	pci/g
2	Site Limit	2.470	pci/g
3	Cumulative Total to Date	1.526	pci/g
4	% of Total Cumulative Limit	61.78	%

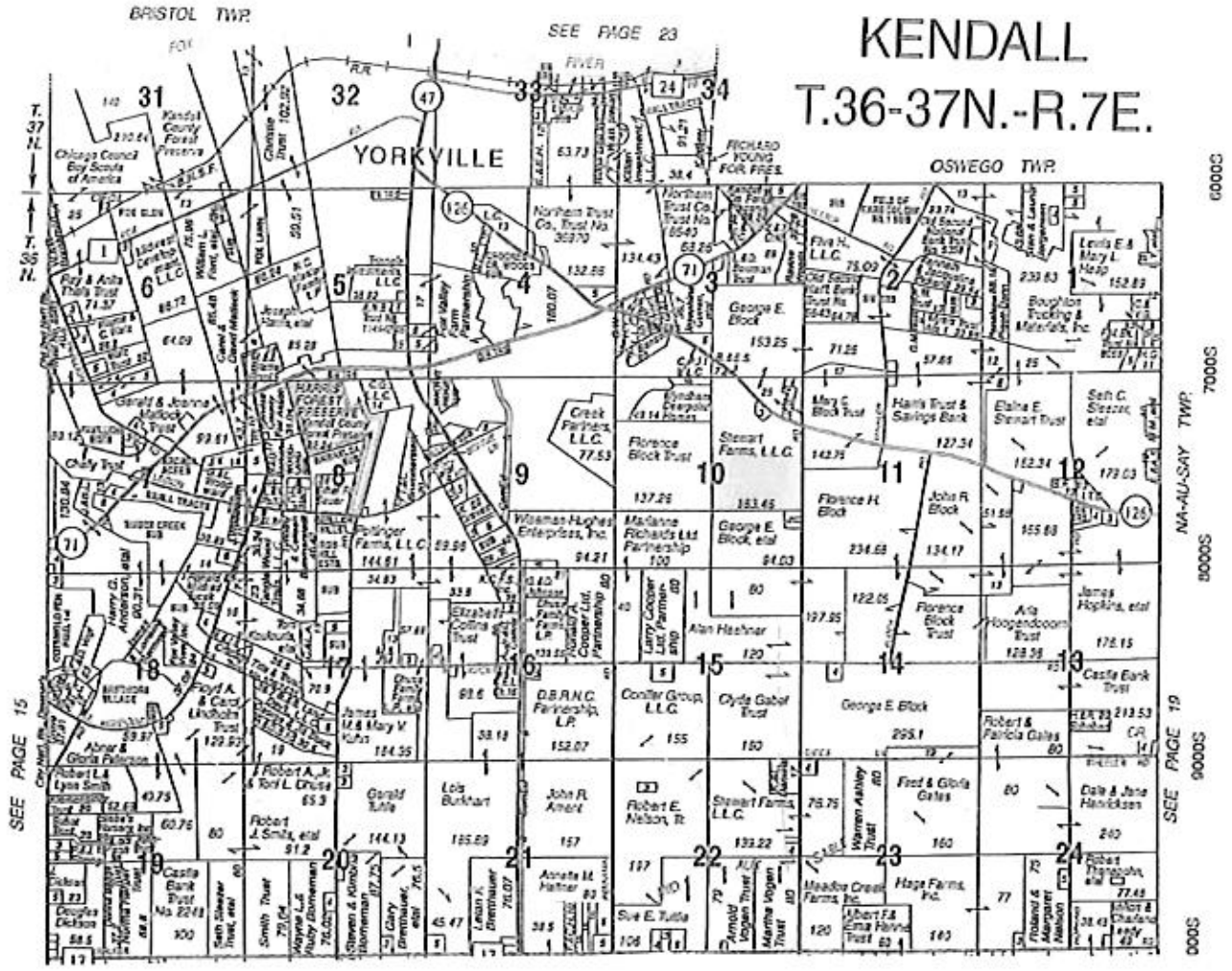
1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radium

Stewart SPREADING

Plat Map

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
(0 Acres
Kendall County
Kendall Township
Section 10



A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

LRM0742

Soil Series

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10

Soil Series & Texture		Percent Slopes	Permeability
59A	Lisbon silt loam	0 to 2 percent slopes	.06 - .60 on/hr
60C2	La Rose silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
60C3	La Rose clay loam	5 to 10 percent slopes, severely eroded	.06 - .60 on/hr
145B	Sa,brook silt loam	2 to 5 percent slopes	.06 - .60 on/hr
145C2	Sa,brook silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
356A	Elpaso silty clay loam	0 to 2 percent slopes	.20 - .60 on/hr



WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2022

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Stewart 4

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay	T/A	
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? **Yes** **No** (Circle One)

Name of Generator: Aurora Lime

Amount Applied: 400 wet tons

Years Applied: 2022

SPREADING

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/17/22

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-10-100-003
Section Number	10	Township *(Number and Direction)*	T36-37N
Tillable Acres	123	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Hudson Lake 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.52	+/-	0.13	Radium-228	1.09	+/-	0.23

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/10/23 and 1/11/23	550.83	4.5	123	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 11, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Background

Report Date: September 23, 2021
Workorder: 2108Q79

Client Sample ID: KE Hudson Lake 1 ←
Lab ID: 2108Q79-001 **Date Received:** 08/26/2021 11:55 AM

Matrix: SOIL
Collection Date: 08/25/2021 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: EM	
Radium-226	0.52 +/-0.13	0.50	J	pCi/g	1	09/13/2021 10:54 AM	76545
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: EM	
Radium-228	1.09 +/-0.23	0.50		pCi/g	1	09/15/2021 4:05 PM	76578

Client Sample ID: KE Friosted 14
Lab ID: 2108Q79-002 **Date Received:** 08/26/2021 11:55 AM

Matrix: SOIL
Collection Date: 08/25/2021 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: EM	
Radium-226	0.64 +/-0.15	0.50	J	pCi/g	1	09/13/2021 10:54 AM	76545
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: EM	
Radium-228	1.45 +/-0.34	0.50		pCi/g	1	09/15/2021 4:05 PM	76578

Created: 9/23/2021 3:44:36 PM

METAL LOADING RECORD

SITE NUMBER	KE Hudson Lake 1	COUNTY	Kendall
ACREAGE	123	TOWNSHIP	Kendall
		SECTION	10
FARMER	John Stewart		
ADDRESS	3870 N. Rt. 71		
	Sheridan, IL 60551		
PHONE #	815-895-5667		

Source of biosolids
1 Lasma Lagoon 28
2 Lasma cell 5
3 Aurora Line
4 Calumet East 2
5 Lasma Lagoon 28
6 Lasma Lagoon 29
7

Metal Loadings in Pounds per Acre

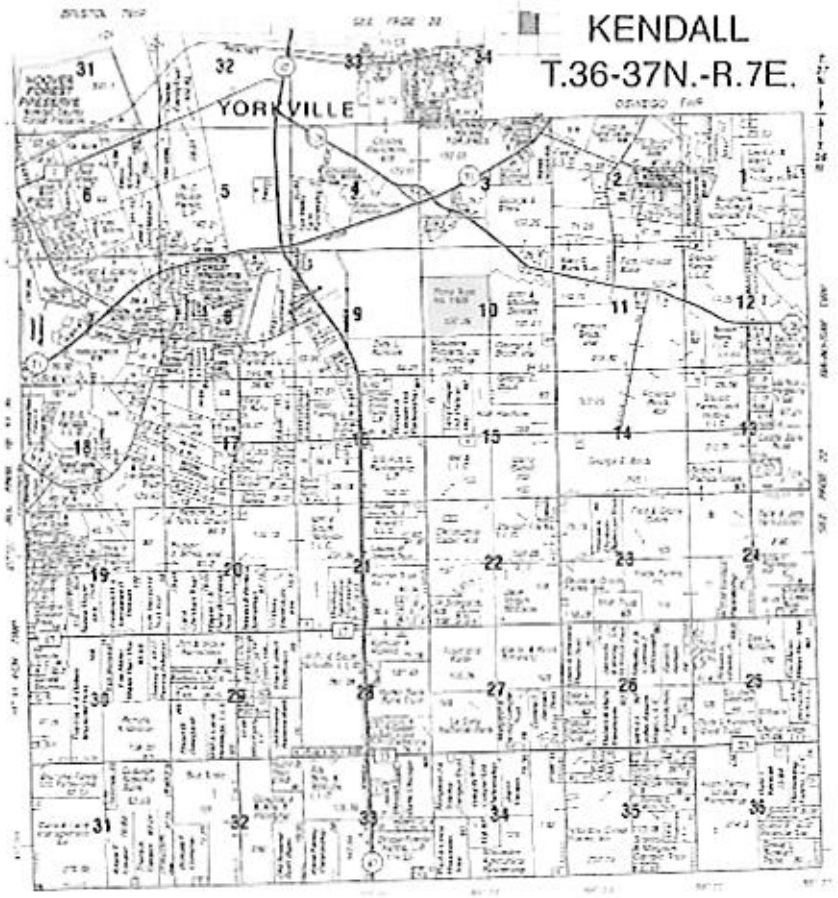
	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.020	3.910	4.490	0.430	0.700	6.600	0.100	0.000	0.090	0.13					2579.55	523.65
2	5/1/2021	0.03	4.58	6.51	0.44	1.02	9.18	0.22	0	0.11	0.15	0.000				2417.97	660.11
3	5/1/2021	0.023	0.092	1.872	0.087	0.023	0.223	0	0	0	0	0.019	6.25 pci/g			1669.71	719.39
1	Oct-21	0.02	1.74	2.04	0.18	0.35	3.5	0.04	0	0.04	0.07					1100.42	242.09
3	Oct-21	0.004	0.02	0.527	0.018	0.004	0.048	0	0	0	0	0.003	3.57 pci/g			569.59	207.5
4	Aug-22	0	0.5	1.53	0.04	0.09	1.36	0.01	0	0.01	0.02					279.73	74.13
5	Aug-22	0.03	3.71	4.68	0.4	0.71	7.22	0.1	0	0.1	0.12					2793.53	595.02
6	Aug-22	0.03	3.9	4.98	0.34	0.7	7.03	0.09	0	0.09	0.11					1976.89	575.27
3	Jan-23	0.005	0.066	0.722	0.031	0.005	0.107	0.000	0.000	0.000	0.000	0.012	pci/g			1476.00	550.83
	TOTAL	0.15	18.52	27.35	1.97	3.6	35.27	0.56	0	0.44	0.6	0.034	pci/g				
	%of LIMIT	1.6	7.4	3	2	0.4	7.1	0.6	0	6.5	3.7						

1	Background Radium	1.610	pci/g
2	Site Limit	2.610	pci/g
3	Cumulative Total to Date	1.644	pci/g
4	% of Total Cumulative Limit	62.99	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

John Stewart
3870 Rt 71
Sheridan IL 60551
815-695-5667

KE Hundson Lake 1
123 Acres
Kendall County
Kendall Township
Section 10



John Stewart
3870 Rt 71
Sheridan IL 60551
815-695-5667

KE Hundson Lake 1
123 Acres
Kendall County
Kendall Township
Section 10

59A	Lisbon silt loam, 0 to 2 percent slopes	13.8	9.5% 0.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.1	12.4% 0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	32.4	22.2% 0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	56.8	38.9% 0.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	0.4	0.2% 0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	24.5	16.8%0.20 to 0.60 in/hr



WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2022

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Hudson Lake 1

6.) Size of Area Where Lime is to be Used: 123 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residual's been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 2200 wet tons

Years Applied 2021

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-13-300-001
Section Number	13+24	Township *(Number and Direction)*	T36-37N
Tillable Acres	145	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Gates 2

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.572	+ / -	0.120	Radium-228	0.745	+ / -	0.180

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/11/23	476.94	3.29	145	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jul 7, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Apr-23**

Biosolids Field Record

KE Gates 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/10/2023	4/11/2023	City of Aurora - Lime	234.93	31.81	74.73
4/11/2023	4/11/2023	City of Aurora - Lime	955.14	42.11	402.21
Total			1190.07		476.94

Biosolids Field Record

LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/10/2023	4/14/2023	City of Aurora - Lime	866.54	31.81	275.65
4/11/2023	4/13/2023	City of Aurora - Lime	514.42	42.11	216.62
4/12/2023	4/13/2023	City of Aurora - Lime	66	48.21	31.82
4/13/2023	4/13/2023	City of Aurora - Lime	184.71	40.76	75.29
Total			1631.67		599.38

Biosolids Field Record

KE Dhuse 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/12/2023	4/12/2023	City of Aurora - Lime	774	31.92	247.06
4/12/2023	4/13/2023	City of Aurora - Lime	158.36	31.92	50.55
Total			932.36		297.61

Biosolids Field Record

KE Dhuse 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/12/2023	4/13/2023	City of Aurora - Lime	654.18	48.21	315.38
4/13/2023	4/13/2023	City of Aurora - Lime	21.98	40.76	8.96
Total			676.16		324.34

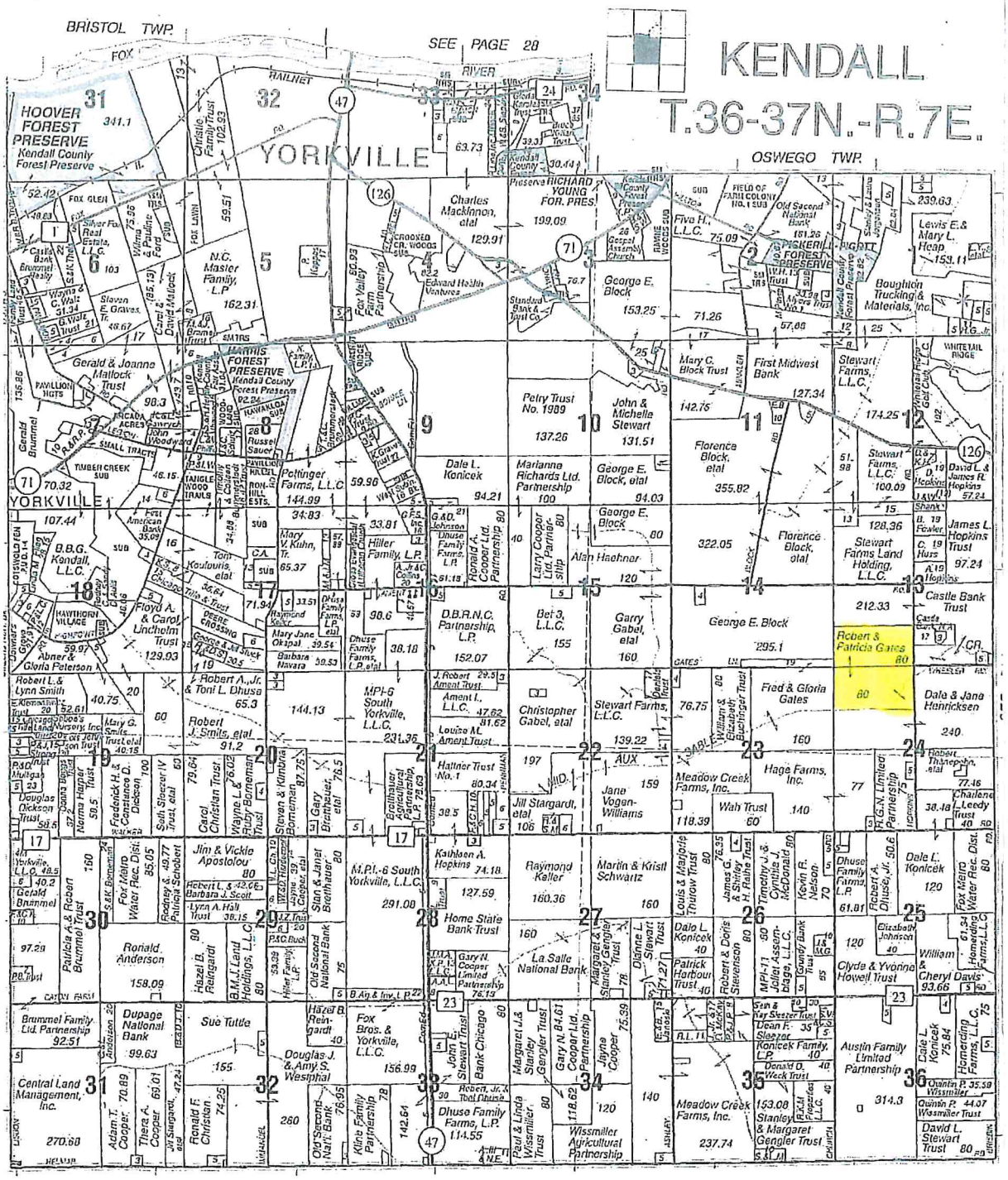
Biosolids Field Record

KE Seth Sleezer 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/13/2023	4/13/2023	City of Aurora - Lime	188.25	40.76	76.73
Total			188.25		76.73

Bob Gates
8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Field 2
145 Acres
Kendall County
Kendall Township
Sections 13 & 24



LRM0756

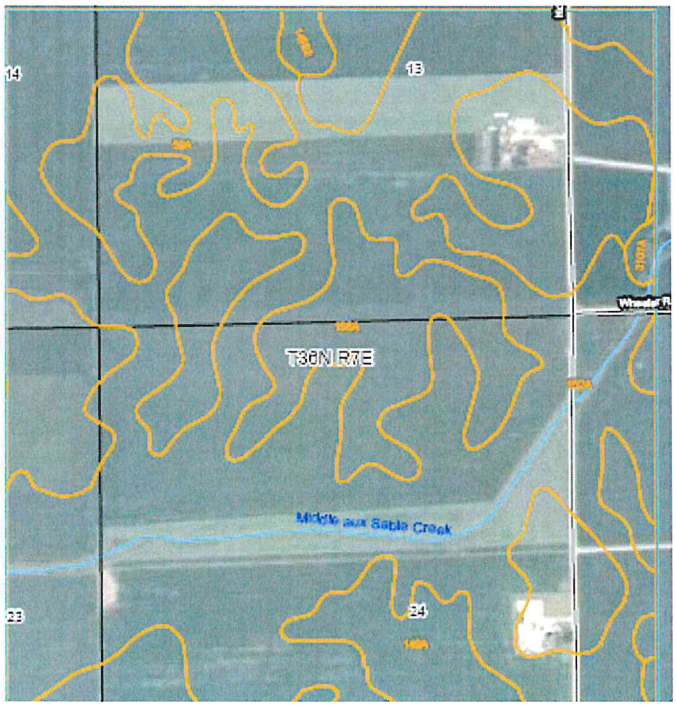
SOIL SERIES

Bob Gates
8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Field 2,
145 Acres
Kendall County
Kendall Township
Sections 13 & 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon, 59A	SiL	0-2 %	0.6-2.0 in/hr
Drummer, 152A	SiCL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiCL	0-2 %	0.6-2.0 in/hr

+



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20041416**

Date Reported: **5/26/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 4/20/2020 2:50:00 PM
Project: Background Rads
Lab ID: 20041416-002
Matrix: SOLID
Client Sample ID KE Gates 2

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.572	0.0306		pCi/g-dry	± 0.120	1	5/22/2020 6:34:00 PM
Radium-228	0.745	0.0306		pCi/g-dry	± 0.180	1	5/22/2020 6:34:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 145

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 13 and 24

FARMER: Bob Gates
ADDRESS: 8813 Hopkins Road
Yorkville, IL 60560
630-554-7548

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Lasma Lagoon 29

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April-20	0.019	0.082	1.022	0.058	0.006	0.137	0	0	0	0	0.0100				1548	681.24
2	August-20	0.05	7.05	9.83	0.67	1.38	12.7	0.13	0.01	0.08	0.24					902.38	166.04
1	August-20	0.003	0.011	0.137	0.008	0.001	0.018	0	0	0	0	0.001	4.1 pci/g			307.99	91.9
2	Dec-20	0.020	3.720	4.420	0.350	0.840	7.040	0.100	0.010	0.040	0.120					2113.32	589.62
2	May-21	0.010	2.660	3.050	0.290	0.470	4.490	0.070	0.000	0.060	0.090					2045.92	415.32
3	Oct-21	0.020	2.390	2.750	0.250	0.440	4.430	0.060	0.000	0.060	0.090					1838.1	397.03
1	Apr-23	0.003	0.048	0.528	0.022	0.003	0.078	0.000	0.000	0.000	0.000	0.0090	5.38 pci/g			1190.07	476.94
	TOTAL	0.13	15.96	21.74	1.65	3.14	28.89	0.36	0.02	0.24	0.54	0.020	pci/g				
	%of LIMIT	1.3	6.4	2.4	1.7	0.3	5.8	0.4	0	3	3.4						

1	Background Radium	1.317	pci/g
2	Site Limit	2.317	pci/g
3	Cumulative total to Date	1.337	pci/g
4	% of Total Cumulative Limit	57.70	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	See next page
Section Number	5	Township *(Number and Direction)*	T35 N
Tillable Acres	134	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			LS Gunderson 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.75	+ / -	0.	Radium-228	0.77	+ / -	0.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/13 + 4/14	599.38	4.47	134	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jul 7, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LS Gunderson 1 PIN

16-05-101-000

16-05-102-000

16-05-301-000

16-05-302-000

John Stewart

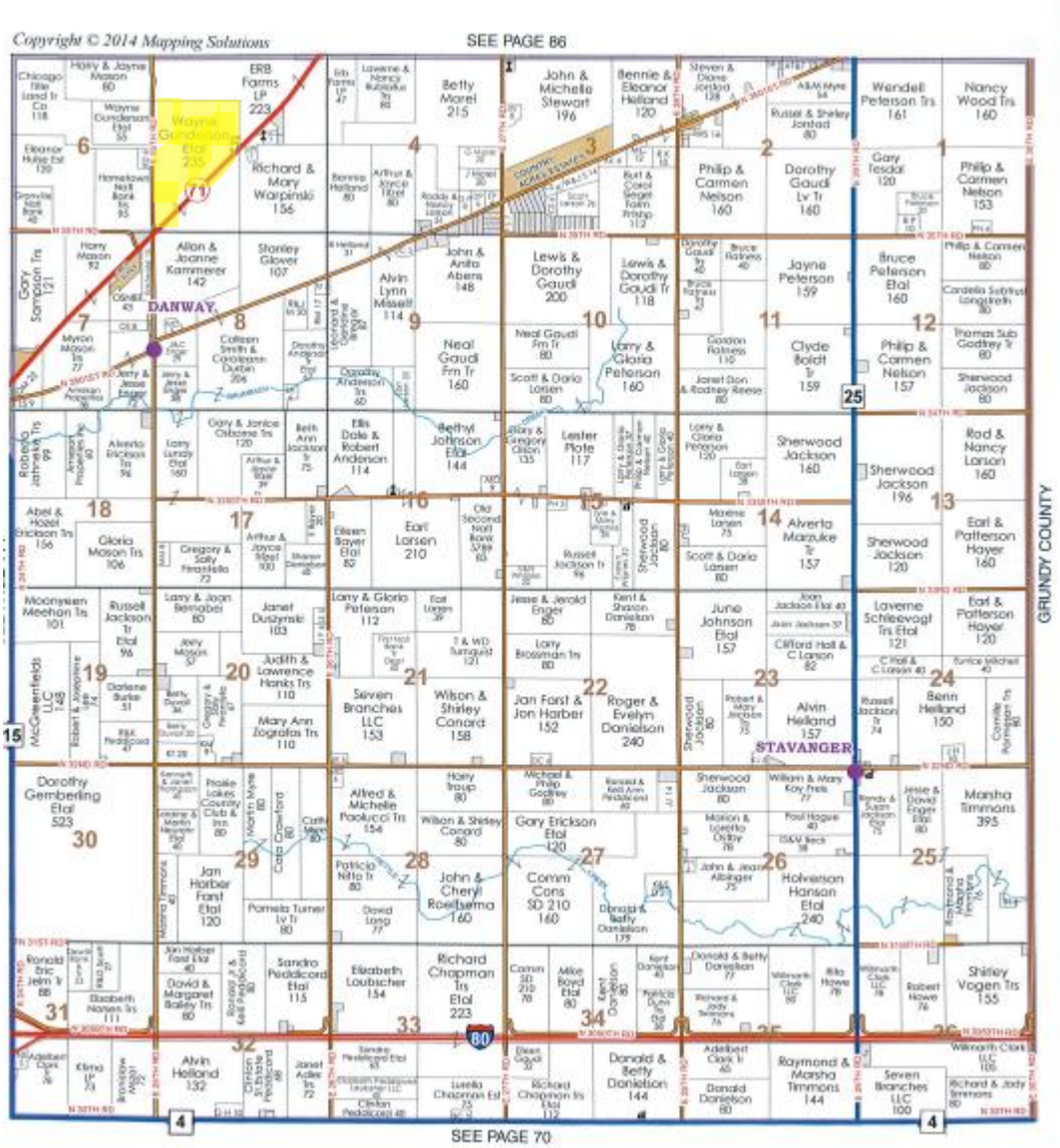
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230145-8 is in Table 1. Stewart Spreading identified the samples as KE Dhuse 5 (soil), LS Gunderson 1 (soil), KE Dhuse 2 (soil), and KE Seth Sleezer 7 (soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
	KE Dhuse 5 (soil)	LS Gunderson 1 (soil)	KE Dhuse 2 (soil)	KE Seth Sleezer 7 (soil)
Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
	TOTAL	0	0.07	0.72	0.03	0	0.11	0	0	0	0	0.012	pci/g				
	%of LIMIT	0	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.532	pci/g
4	% of Total Cumulative Limit	60.79	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-15-300-005
Section Number	15	Township *(Number and Direction)*	T36-37N
Tillable Acres	141	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Dhuse 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.84	+ / -	0.	Radium-228	1.28	+ / -	0.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/12 + 4/13	297.61	2.11	141	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jul 7, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dhuse

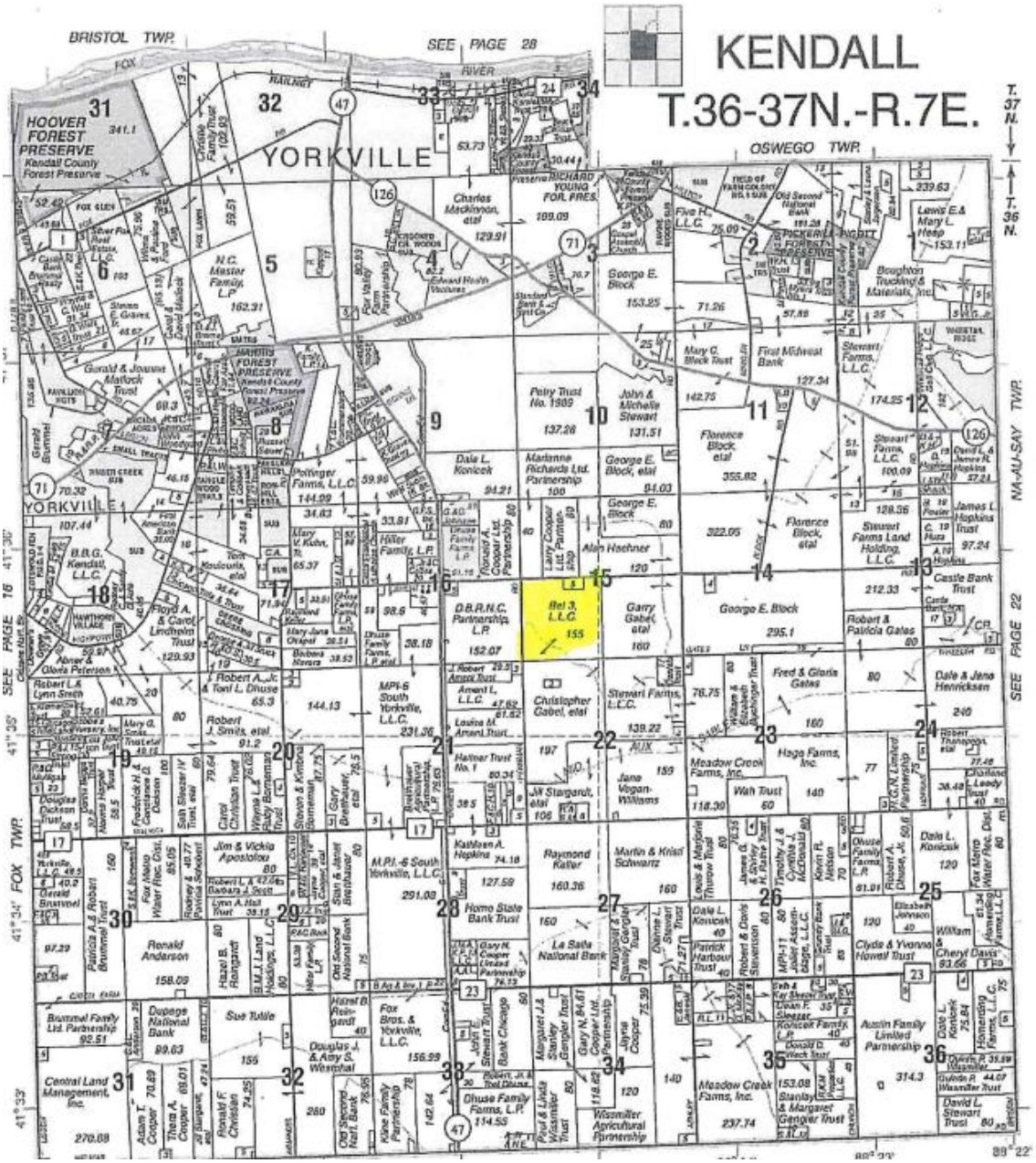
KE Dhuse 2

141 acres

Kendall County

Kendal Township

Section 15



Dhuse

KE Dhuse 2

141 acres

Kendall County

Kendal Township

Section 15

59A	Lisbon silt loam, 0 to 2 percent slopes	62.0	37.6%	0.20 to 0.60 in/hr
148A	Proctor silt loam, 0 to 2 percent slopes	6.0	3.7%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	14.3	8.7%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	55.9	33.8%	0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.4	5.7%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	17.5	10.6%	0.06 to 0.20 in/hr



Totals for Area of Interest 165.1 100.0%

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

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Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
	KE Dhuse 5 (soil)	LS Gunderson 1 (soil)	KE Dhuse 2 (soil)	KE Seth Sleezer 7 (soil)
Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 141
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 15

FARMER: Bob Dhuse
ADDRESS: 9095 Immanuel Road
Yorkville, IL 60560

Source of biosolids
1 Aurora Lime
2

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.002	0.031	0.337	0.014	0.002	0.050	0.000	0.000	0.000	0.000	0.006				932.36	297.61
	TOTAL	0	0.03	0.34	0.01	0	0.05	0	0	0	0	0.006	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	2.120	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.126	pci/g
4	% of Total Cumulative Limit	70.87	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-16-300-006
Section Number	16+17	Township *(Number and Direction)*	T36-37N
Tillable Acres	88	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dhuse 5

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.81	+ / -	0.	Radium-228	1.37	+ / -	0.

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/13	324.34	3.69	88	2.90	2.48

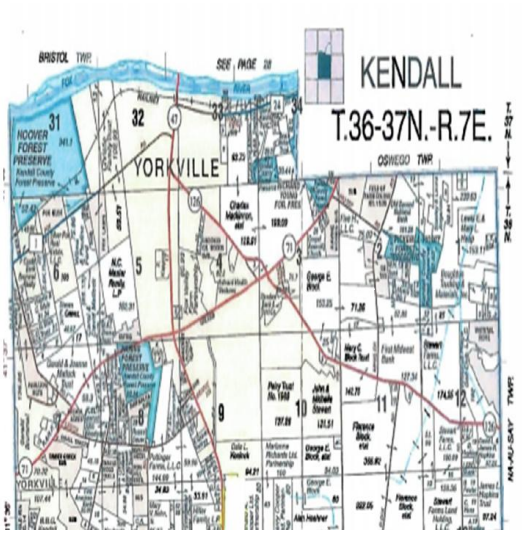
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jul 7, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dhuse

KE Dhuse 5
Kendall County
88 Acres
Kendall Township
Section 16,17



Dhuse

KE Dhuse 5
88 acres
Kendall County
Kendall Township
Section 16,17

59A	Lisbon silt loam, 0 to 2 percent slopes	15.8	18.1%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	80.4	51.4%	0.60 to 2.00 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	0.8	0.9%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	17.7	20.2%	0.06 to 0.60 in/hr
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	17.7	20.2%	0.06 to 0.60 in/hr
145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded	1.1	1.2%	0.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.6	11.0%	0.20 to 0.60 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230145-8 is in Table 1. Stewart Spreading identified the samples as KE Dhuse 5 (soil), LS Gunderson 1 (soil), KE Dhuse 2 (soil), and KE Seth Sleezer 7 (soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
	KE Dhuse 5 (soil)	LS Gunderson 1 (soil)	KE Dhuse 2 (soil)	KE Seth Sleezer 7 (soil)
Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 88
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 16 and 17

FARMER: Bob Dhuse
ADDRESS: 9095 Immanuel Road
Yorkville, IL 60560

Source of biosolids
1 City of Naperville
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Dec-21	0.000	1.210	0.560	0.030	0.020	1.650	0.010	0.000	0.010	0.020				562		87.79
2	Oct-22	0.009	0.041	1.086	0.038	0.009	0.098	0.000	0.000	0.000	0.000	0.0060	3.57 pci/g			1001.28	305.95
2	Apr-23	0.004	0.054	0.592	0.025	0.004	0.088	0.000	0.000	0.000	0.000	0.010	5.38 pci/g			676.16	324.34
	TOTAL	0.01	1.31	2.24	0.09	0.03	1.84	0.01	0	0.01	0.02	0.016	pci/g				
	%of LIMIT	0.1	0.5	0.2	0.1	0	0.4	0	0	0.1	0.1						

1	Background Radium	2.180	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.196	pci/g
4	% of Total Cumulative Limit	73.20	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See next page
Section Number	23	Township *(Number and Direction)*	T36-37N
Tillable Acres	75	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Seth Sleezer 7	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.10	+ / -	0.	Radium-228	1.42	+ / -	0.

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/13/23	76.73	1.02	75	2.90	2.48

5. I certify the information provided above is accurate,

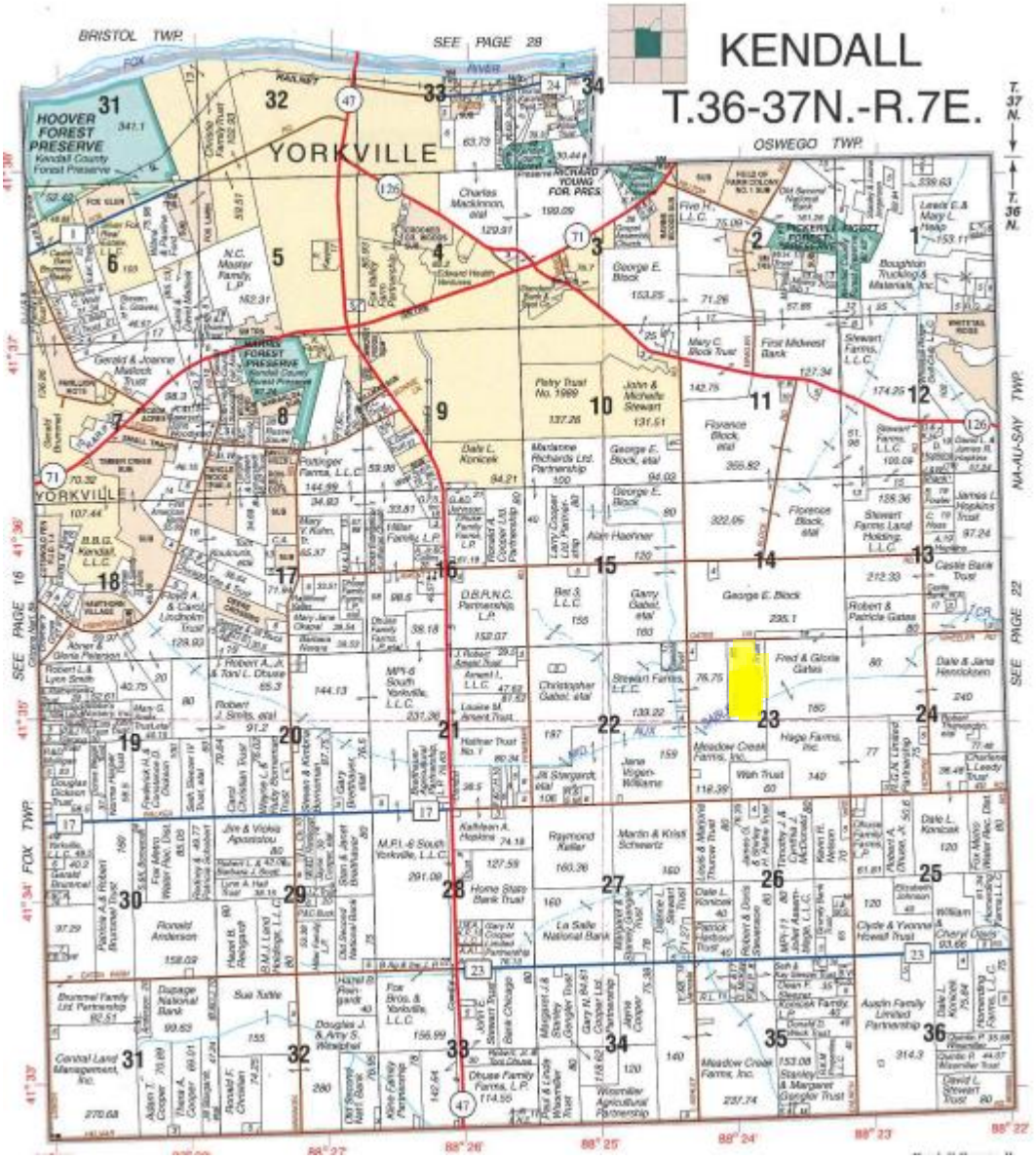
Signature: Billie M Marko Date: Jul 7, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

KE Sleezer Seth 7
PIN 05-23-100-007
PIN 05-23-100-006
PIN 05-23-100-008

Seth Sleezer

KE Seth Sleezer 7
75 acres
Kendall County
Kendall Township
Section 23



Seth Sleezer

KE Seth Sleezer 7
75 acres
Kendall County
Kendall Township
Section 23

59A	Lisbon silt loam, 0 to 2 percent slopes	3.4	3.6%	0.20 to 0.60 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	4.5	4.7%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	8.6	9.0%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	63.6	66.6%	0.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	15.3	16.0%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230145-8 is in Table 1. Stewart Spreading identified the samples as KE Dhuse 5 (soil), LS Gunderson 1 (soil), KE Dhuse 2 (soil), and KE Seth Sleezer 7 (soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
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Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 75
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 23

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.001	0.015	0.164	0.007	0.001	0.024	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			188.25	76.73
	TOTAL	0	0.02	0.16	0.01	0	0.02	0	0	0	0	0.003	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	2.520	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.523	pci/g
4	% of Total Cumulative Limit	84.10	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 8, 2022

2.) Name of User: Bob Gates

3.) Address of User: 8813 Hopkins Road Yorkville, IL 60560

4.) Phone Number of User: 630-554-7548

5.) Location Where Lime is to be Used: KE Gates 2

6.) Size of Area Where Lime is to be Used: 145 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 1800 wet tons

Years Applied 2020

ADDENDUM 1

Radium In Organic Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Organic Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Biosolids contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Organic Biosolids and/or Lime as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Organic Biosolids/Lime can be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Robert D A Hales 8/8/22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 12-18-18

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes (No) (Circle One)
Name of Generator
Amount Applied
Years Applied

SPREADING

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 24, 2022

2.) Name of User: Gerald Johnson Dhuse Family Farm

3.) Address of User: 9055 Immanuel Rd Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dhuse 2

6.) Size of Area Where Lime is to be Used: 141 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 24, 2022

2.) Name of User: Gerald Johnson Dhuse Family Farm

3.) Address of User: 9055 Immanuel Rd Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dhuse 5

6.) Size of Area Where Lime is to be Used: 88 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied 1000 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Organic Biosolids/Lime Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Organic Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Biosolids contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Organic Biosolids and/or Lime as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Organic Biosolids/Lime can be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

8-24-22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 12-18-18

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 27, 2023

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 7

6.) Size of Area Where Lime is to be Used: 75 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Seth Sleyster VI 1/27/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-21-300-003
Section Number	21	Township *(Number and Direction)*	T35N
Tillable Acres	73	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Kinsella 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.99	+ / -	0	Radium-228	1.37	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
5/30/23	337.52	4.6	73	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Aug 23, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **May 2023**

Biosolids Field Record

Site: KE Kinsella 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/30/2023	5/30/2023	City of Aurora - Lime	840.23	40.17	337.52
Total			840.23		337.52

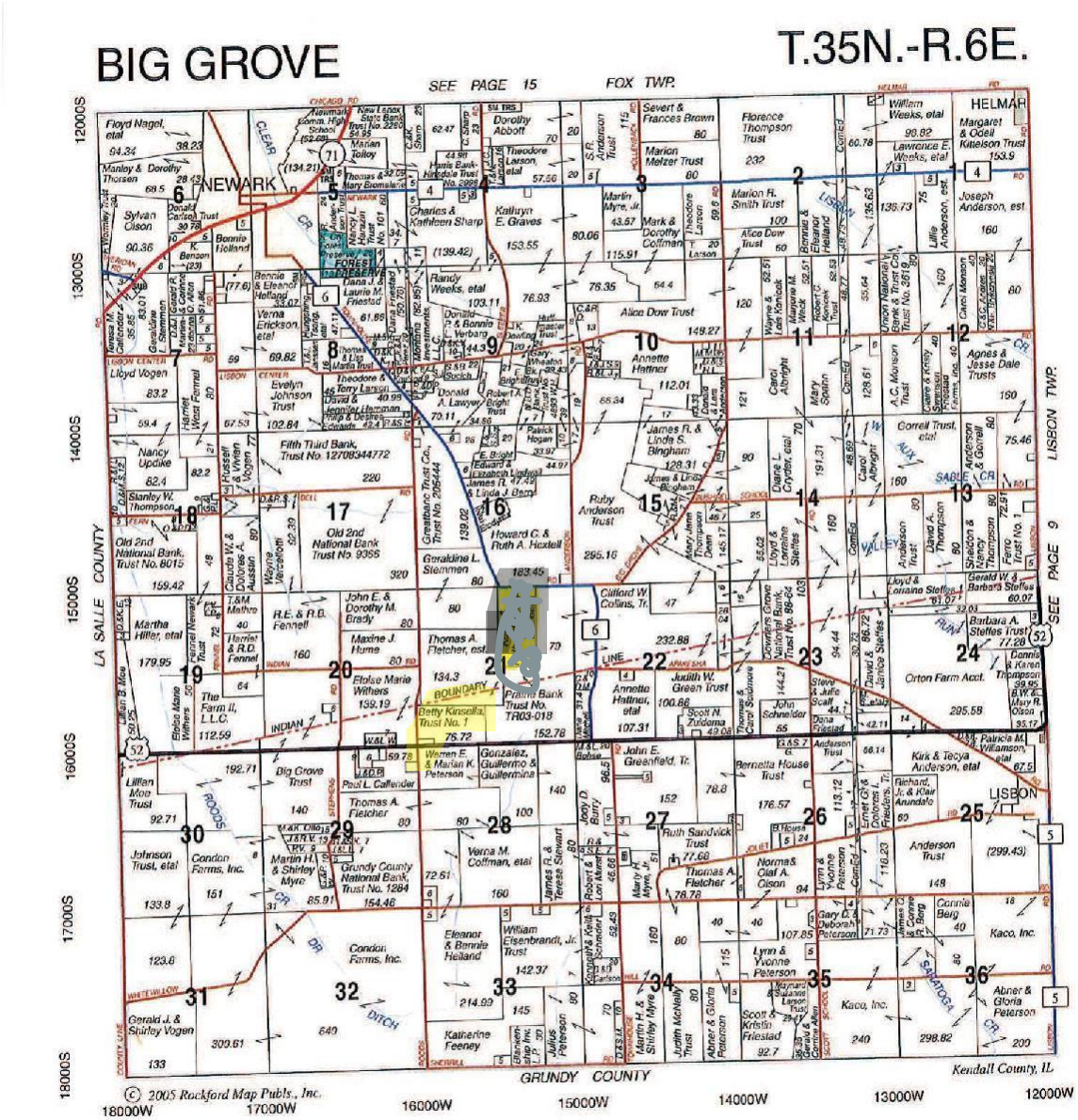
Biosolids Field Record

WL Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/31/2023	5/31/2023	City of Aurora - Lime	571.99	34.82	199.17
5/31/2023	5/31/2023	City of Aurora - Lime	571.99	39.91	228.28
Total			1143.98		427.45

Plat Map

KE Kinsella 1
73 acres
Kendall County
Big Grove Township
Section 21


BIG GROVE
T.35N.-R.6E.
SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON TWP.
SEE PAGE 9
LA SALLE COUNTY
GRUNDY COUNTY
Kendall County, IL
Betty Kinsella Trust No. 1
Prairie Bank Trust No. TR03-018
Gonzalez, Guillermo & Guillermina
Warren E. & Marian K. Peterson
Paul L. Callender
Thomas A. Fletcher
Big Grove Trust
Condon Farms, Inc.
Grundy County National Bank, Trust No. 1284
Martin H. & Shirley Myre
Verna M. Coffman, etal
Eleanor & Bennie Holland
William Eisenbrandt, Jr. Trust
Katherine Feeney
Julius Peterson
Gerald J. & Shirley Vogen
Johnson Trust, etal
Liffen Moe Trust
The Farm II, L.L.C.
Eloise Marie Withers
Martha Hiller, etal
Old 2nd National Bank, Trust No. 8015
Fifth Third Bank, Trust No. 12708344772
Old 2nd National Bank Trust No. 9356
Howard C. & Ruth A. Hextell
Geraldine L. Stemmen
Ruby Anderson Trust
Clifford W. Collins, Tr.
Annette Hattner, etal
Judith W. Green Trust
Dominion Grove National Bank, Trust No. 88-64
Orton Farm Acct.
Kirk & Tecya Anderson, etal
Bernetta House Trust
Ruth Sandvick Trust
Thomas A. Fletcher
Normas Olaf A. Olson
Anderson Trust
Kaco, Inc.
Abner & Gloria Peterson
Scott & Kristin Friestad
Judith McNally Trust
Lynn & Yvonne Peterson
Connie Berg
Gary D. & Deborah Peterson
Scott N. Zuidema
John Schneider
Steve & Julie Scali
Janice Steffes
Barbara A. Steffes Trust
Lloyd & Lorraine Steffes
Correll Trust, etal
Agnes & Jesse Dale Trusts
A.C. Monson Trust
Carol Albright
Mary Spahn
Diane L. Cryder, etal
James R. & Linda S. Bingham
Annette Hattner
Alice Dow Trust
Marion R. Smith Trust
Florence Thompson Trust
Severt & Frances Brown
Marion Metzer Trust
Dorothy Abbott
Theodore Larson, etal
Kathryn E. Graves
Charles & Kathleen Sharp
Randy Weeks, etal
Bennie & Eleanor Holland
Verna Erickson etal
Evelyn Johnson Trust
Lloyd Vogen
Nancy Updike
Stanley W. Thompson
Martha Hiller, etal
Maxine J. Hume
John E. & Dorothy M. Brady
R.E. & R.D. Fennell
T.&M. Mathre
Harriet & R.D. Fennel
Caudle W. & Diane A. Austin
Wayne Henderson
Harriet West Fennel
Russell & Vivian Vogen
Sylvan Olson
Donald Carlson Trust
K. Benson
Bonnie Holland
Floyd Nagel, etal
Manley & Dorothy Thorsen
Newark Comm. High School
New Lenox State Bank Trust No. 2259
Marian Talley
Thomas & Mary Bremster
Nancy L. Hansen Trust No. 101
Dana J. & Laurie M. Friestad
Donald P. & Bonnie L. Verbarg
Theodore & Terry Larson
David & Jennifer Hermann
Greentree Trust Co., Trust No. 2054444
Donald A. Lawyer
Robert T. & Bright Trust
Patrick Hogan
E. Bright
Edward & Elizabeth Lydell
James R. & Linda J. Berry
James R. & Linda S. Bingham
Mary Jane Thompson Dean
Diane L. Cryder, etal
Lloyd & Lorraine Steffes
Dominion Grove National Bank, Trust No. 88-64
Janice Steffes
David & Janice Steffes
Steve & Julie Scali
John Schneider
Dana Friestad
Scott N. Zuidema
Thomas & Carol Sodomore
Anderson Trust
Bernetta House Trust
Ruth Sandvick Trust
Thomas A. Fletcher
Normas Olaf A. Olson
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
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Kaco, Inc.
Abner & Gloria Peterson
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Judith McNally Trust
Martin H. & Shirley Myre
Julius Peterson
Katherine Feeney
William Eisenbrandt, Jr. Trust
Eleanor & Bennie Holland
Verna M. Coffman, etal
James R. & Terese Stewart
Robert & Lori Mentzer
Jerry D. & Betty Bury
John E. Greenfield, Tr.
Gonzalez, Guillermo & Guillermina
Warren E. & Marian K. Peterson
Paul L. Callender
Thomas A. Fletcher
Big Grove Trust
Condon Farms, Inc.
Grundy County National Bank, Trust No. 1284
Martin H. & Shirley Myre

Stewart SPREADING
Organic Fertilizer
Sheridan, IL • 815/695/5667

Current Map

Stewart Spreading

Farm: Kinsella **Acres:** 73.02

Field: KE Kinsella 1



Location:

County: Kendall, IL

Twp Rng Sec: T35N R6E S21

Summary Statistics

Layer Name: Soil Types

Count: 14

MuSym



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, July 19, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230178-82 is in Table 1. Stewart Spreading identified the samples as KE Moe 11 (Soil), KE Kinsella-1 (Soil), LS Roberts 1 (Soil), Mitchell 600 (Soil), and Mt. Pulaski Biosolids (Biosolids), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radio-nuclide	Sample IDs				
	G230178	G230179	G230180	G230181	G230182
	KE Moe 11 (Soil)	KE Kinsella-1 (Soil)	LS Roberts 1 (Soil)	Mitchell 600 (Soil)	Mt. Pulaski Biosolids (Biosolids)
Ac-228	1.40	1.37	1.56	< 0.14	< 0.07
Ra-228[1]	1.40	1.37	1.56	< 0.14	< 0.07
Pb-214	0.97	1.05	< 0.07^	1.08	0.61
Bi-214	< 0.07^	0.92	1.13	1.33	< 0.04
Ra-226[2]	0.97	0.99	1.13	1.20	< 0.65
Total Radium[3]	2.38	2.36	2.68	< 1.35	< 0.73

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 73
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 21

FARMER: Mike Kinsella
ADDRESS: 43W510 Kenmar Drive
Elburn, IL 60119
630-327-2129

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	May-23	0.005	0.067	0.738	0.031	0.005	0.109	0	0	0	0	0.0130	5.38 pci/g			840.23	337.52
	TOTAL	0.01	0.07	0.74	0.03	0.01	0.11	0	0	0	0	0.013	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.373	pci/g
4	% of Total Cumulative Limit	42.14	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Will	Tax Parcel ID Number *(PIN)**	0701183000040000
Section Number	18	Township *(Number and Direction)*	T37N
Tillable Acres	153.76	Range *(Number and Direction)*	R9E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			WL Lincolnway 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.50	+ / -	0	Radium-228	0.50	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
5/31/23	427.45	2.8	153.76	2.90	2.48

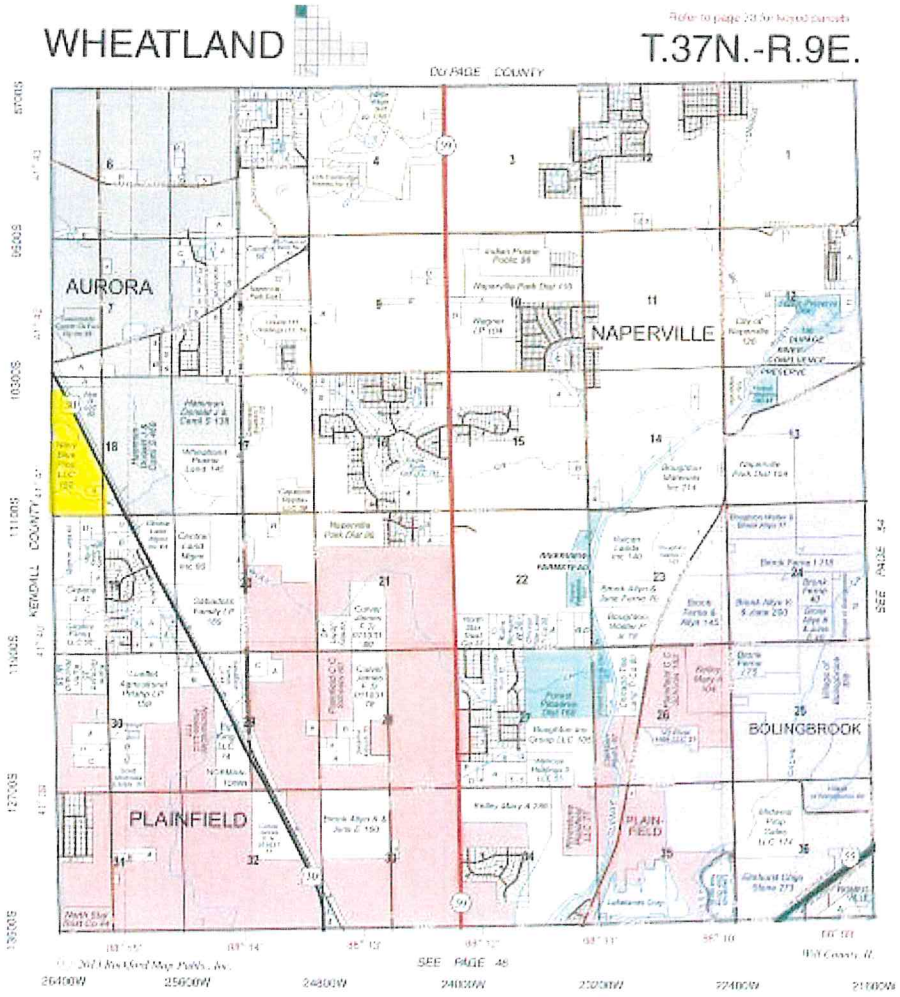
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Aug 23, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

John Stewart
3870 Rt 71
Sheridan, IL 60551
815-695-5667

WL Lincolnway 1
153.76 acres
Will County
Wheatland Township
Section 18



John Stewart	WL Lincolnway 1
3870 Rt 71	153.76 acres
Sheridan, IL 60551	Will County
815-695-5667	Wheatland Township
	Section 18

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area Collapse Will County, Illinois (IL197)		379.9	71.6%

Will County, Illinois (IL197)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
Rance Rd
W 111th St
US
541B
330A
356A
223C2
614A
541B2
223C3
541C2
223D3
146A
67A

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: April 22, 2021
Workorder: **2103S05**

Client Sample ID: **KE_WL Lincolnway**
Lab ID: 2103S05-001 **Date Received:** 03/31/2021 12:14 PM

Matrix: SOIL
Collection Date: 03/30/2021 9:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: JH	
Radium-226	ND	0.50		pCi/g	1	04/19/2021 12:00 AM	73046
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: JH	
Radium-228	ND	0.50		pCi/g	1	04/14/2021 12:00 AM	72923

Created: 4/22/2021 11:47:12 AM

METAL LOADING RECORD

SITE NUMBER: WL Lincolnway 1
ACREAGE: 153.76
COUNTY: Will
TOWNSHIP: Wheatland
SECTION: 18

FARMER: John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 4
3 Aurora lime
4 Romeoville
5 University Park
6 Downers Grove
7 Lasma lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.02	2.62	3.12	0.24	0.59	4.96	0.07	0	0.03	0.09					1469.59	410.02
2	December 20	0.05	5.91	6.61	0.18	1.3	11.51	0.2	0.01	0.07	0.18					2820.89	942.17
3	December 20	0.017	0.068	1.379	0.064	0.017	0.165	0	0	0	0	0.014	6.25 pci/g			1765.08	624.36
3	May-21	0.008	0.031	0.627	0.029	0.008	0.075	0	0	0	0	0.006	6.25 pci/g			720	302.76
4	Jun-21	0	1.04	0.56	0.04	0.03	1.42	0	0	0.01	0.02	0.018			1000		176.59
5	June/July 21	0	0.19	0.06	0.02	0.024	0.48	0.01	0	0.12	0.01				306		31.18
6	22-Jun	0	0.19	0.04	0.01	0.01	0.08	0	0	0	0				224		22.17
7	22-Jun	0.05	5.8	6.42	0.56	1.36	11.49	0.05	0.01	0.13	0.17					3322.16	963.43
1	22-Jun	0.01	1.69	1.84	0.17	0.3	3.09	0.01	0	0.05	0.06					1766.95	344.56
3	22-Jun	0.004	0.019	0.496	0.017	0.004	0.045	0	0	0	0	0.0030	3.57 pci/g			512.13	244.75
3	23-May	0.003	0.041	0.449	0.019	0.003	0.067	0	0	0	0	0.0080	5.38 pci/g			1143.98	427.45
	Cumulative Total	0.16	17.56	21.15	1.33	3.64	33.32	0.34	0.02	0.41	0.53	0.049	pci/g				
	%of LIMIT	1.6	7	2.4	1.3	0.4	6.7	0.3	0.1	5.1	3.3						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.049	pci/g
4	% of Total Cumulative Limit	52.45	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 18, 2023

2.) Name of User: Mike Kinsella

3.) Address of User: 43W510 Kenmar Drive Elburn, IL 60119

4.) Phone Number of User: 630-327-2129

5.) Location Where Lime is to be Used: KE Kinsella 1 Kendall County, Big Grove Township

6.) Size of Area Where Lime is to be Used: 73 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

5/18/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: WL Lincolnway 1

6.) Size of Area Where Lime is to be Used: 153.76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 3000 wet tons

Years Applied 2020 and 2021 and 2022

SPREADING

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Will	Tax Parcel ID Number *(PIN)**	0701183000040000
Section Number	18	Township *(Number and Direction)*	T37N
Tillable Acres	153.76	Range *(Number and Direction)*	R9E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			WL Lincolnway 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.5	+ / -	0	Radium-228	0.5	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/1/23	171.96	1.12	153.76	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 15, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **June 2023**

Biosolids Field Record

Site: WL Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/1/2023	6/1/2023	City of Aurora - Lime	527.33	32.61	171.96
Total			527.33		171.96

Biosolids Field Record

Site: KE Moe 11

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
5/30/2023	6/1/2023	City of Aurora - Lime	190.82	40.17	76.65
6/1/2023	6/1/2023	City of Aurora - Lime	598.95	32.61	195.32
6/2/2023	6/2/2023	City of Aurora - Lime	112.87	40.68	45.92
Total			902.64		317.89

Biosolids Field Record

Site: LS Compost 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/5/2023	City of Aurora - Lime	240.24	40.68	97.73
6/5/2023	6/5/2023	City of Aurora - Lime	226.22	38.76	87.68
Total			466.46		185.41

Biosolids Field Record

Site: LS Roberts 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/3/2023	City of Aurora - Lime	89.62	40.68	36.46
Total			89.62		36.46

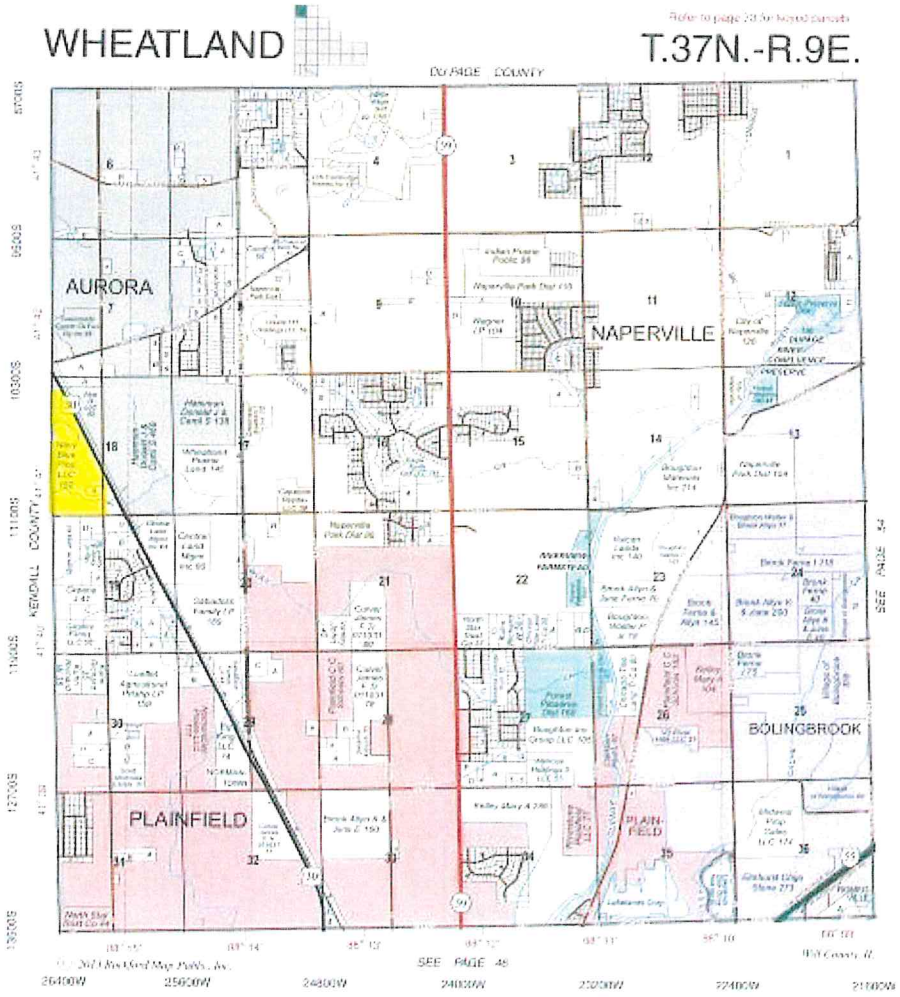
Biosolids Field Record

Site: LS Burkhart 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/2/2023	6/2/2023	City of Aurora - Lime	89.63	40.68	36.46
Total			89.63		36.46

John Stewart
3870 Rt 71
Sheridan, IL 60551
815-695-5667

WL Lincolnway 1
153.76 acres
Will County
Wheatland Township
Section 18



John Stewart	WL Lincolnway 1
3870 Rt 71	153.76 acres
Sheridan, IL 60551	Will County
815-695-5667	Wheatland Township
	Section 18

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area Collapse Will County, Illinois (IL197)		379.9	71.6%

Will County, Illinois (IL197)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
Rance Rd
W 111th St
US
541B
330A
356A
223C2
614A
541B2
223C3
541C2
223D3
67A
146A

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: April 22, 2021
Workorder: **2103S05**

Client Sample ID: **KE_WL Lincolnway**
Lab ID: 2103S05-001 **Date Received:** 03/31/2021 12:14 PM

Matrix: SOIL
Collection Date: 03/30/2021 9:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: JH	
Radium-226	ND	0.50		pCi/g	1	04/19/2021 12:00 AM	73046
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: JH	
Radium-228	ND	0.50		pCi/g	1	04/14/2021 12:00 AM	72923

Created: 4/22/2021 11:47:12 AM

METAL LOADING RECORD

SITE NUMBER: WL Lincolnway 1
ACREAGE: 153.76
COUNTY: Will
TOWNSHIP: Wheatland
SECTION: 18

FARMER: John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 4
3 Aurora lime
4 Romeoville
5 University Park
6 Downers Grove
7 Lasma lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.02	2.62	3.12	0.24	0.59	4.96	0.07	0	0.03	0.09					1469.59	410.02
2	December 20	0.05	5.91	6.61	0.18	1.3	11.51	0.2	0.01	0.07	0.18					2820.89	942.17
3	December 20	0.017	0.068	1.379	0.064	0.017	0.165	0	0	0	0	0.014	6.25 pci/g			1765.08	624.36
3	May-21	0.008	0.031	0.627	0.029	0.008	0.075	0	0	0	0	0.006	6.25 pci/g			720	302.76
4	Jun-21	0	1.04	0.56	0.04	0.03	1.42	0	0	0.01	0.02	0.018			1000		176.59
5	June/July 21	0	0.19	0.06	0.02	0.024	0.48	0.01	0	0.12	0.01				306		31.18
6	22-Jun	0	0.19	0.04	0.01	0.01	0.08	0	0	0	0				224		22.17
7	22-Jun	0.05	5.8	6.42	0.56	1.36	11.49	0.05	0.01	0.13	0.17					3322.16	963.43
1	22-Jun	0.01	1.69	1.84	0.17	0.3	3.09	0.01	0	0.05	0.06					1766.95	344.56
3	22-Jun	0.004	0.019	0.496	0.017	0.004	0.045	0	0	0	0	0.0030	3.57 pci/g			512.13	244.75
3	23-May	0.003	0.041	0.449	0.019	0.003	0.067	0	0	0	0	0.0080	5.38 pci/g			1143.98	427.45
7	23-May	0.01	0.76	0.98	0.08	0.15	1.5	0.01	0	0.02	0.02					525.25	134.46
1	23-May	0.05	4.88	5.3	0.51	0.95	10.01	0.12	0.01	0.12	0.18					4055.12	940.79
3	June.2023	0.001	0.016	0.18	0.008	0.001	0.027	0	0	0	0	0.0030	5.38 pci/g			527.33	171.96
	Cumulative Total	0.22	23.24	27.88	1.94	4.75	44.89	0.47	0.03	0.55	0.73	0.052	pci/g				
	%of LIMIT	2.2	9.3	3.1	1.9	0.5	9	0.5	0.1	6.9	4.5						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.052	pci/g
4	% of Total Cumulative Limit	52.60	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-17-300-003
Section Number	17	Township *(Number and Direction)*	T35N
Tillable Acres	63	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Moe 11	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.97	+ / -	0	Radium-228	1.40	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/1/23 and 6/2/23	317.89	5.05	63	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 15, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Benjamin H. Moe

415 Walnut Street

Yorkville, IL 60560

(630) 553-2798

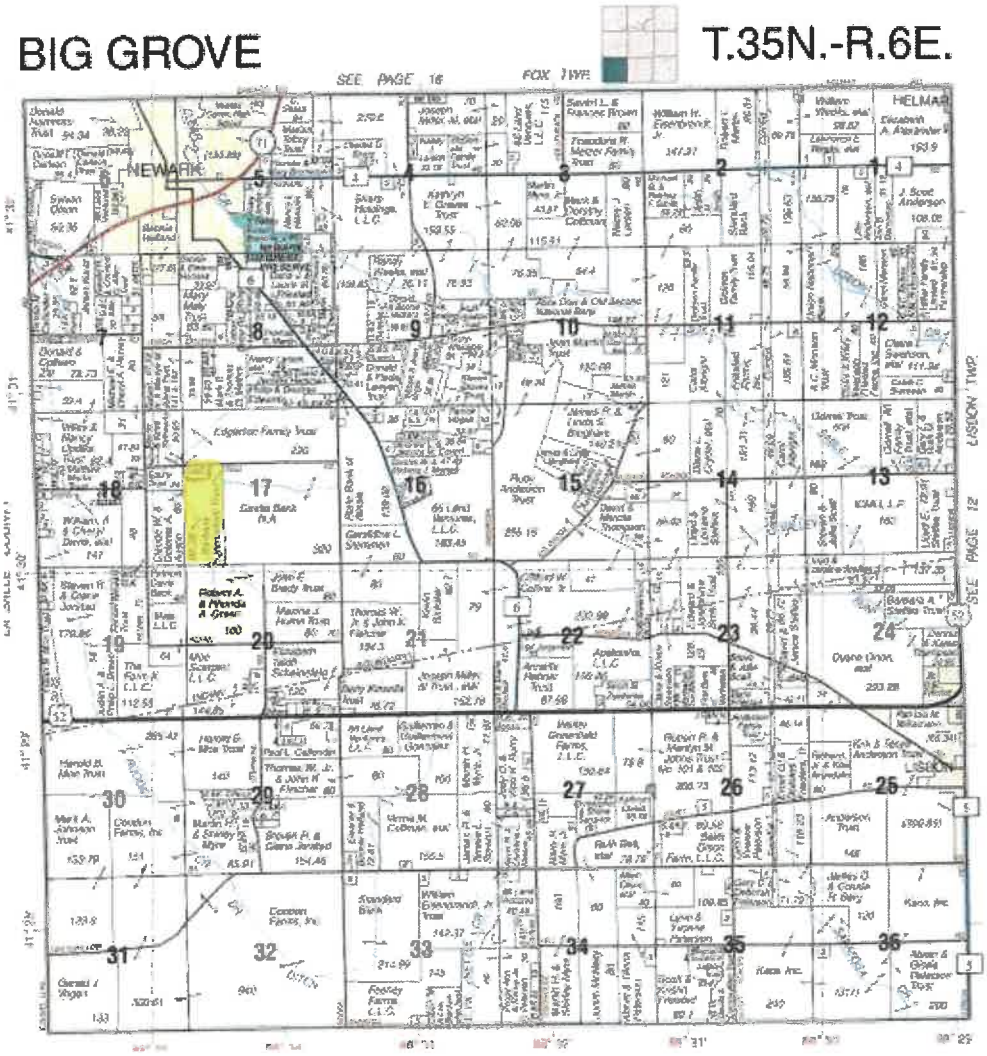
Field 11

63 acres

Kendall County

Big Grove Township

Section 17



LRM0818

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 11
63 acres
Kendall County
Big Grove Township
Section 17

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.6	1.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.3	20.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	18.1	20.6%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	23.5	26.7%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	6.6	7.5%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	18.2	20.7%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.6	1.8%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, July 19, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230178-82 is in Table 1. Stewart Spreading identified the samples as KE Moe 11 (Soil), KE Kinsella-1 (Soil), LS Roberts 1 (Soil), Mitchell 600 (Soil), and Mt. Pulaski Biosolids (Biosolids), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radio-nuclide	Sample IDs				
	G230178	G230179	G230180	G230181	G230182
	KE Moe 11 (Soil)	KE Kinsella-1 (Soil)	LS Roberts 1 (Soil)	Mitchell 600 (Soil)	Mt. Pulaski Biosolids (Biosolids)
Ac-228	1.40	1.37	1.56	< 0.14	< 0.07
Ra-228[1]	1.40	1.37	1.56	< 0.14	< 0.07
Pb-214	0.97	1.05	< 0.07^	1.08	0.61
Bi-214	< 0.07^	0.92	1.13	1.33	< 0.04
Ra-226[2]	0.97	0.99	1.13	1.20	< 0.65
Total Radium[3]	2.38	2.36	2.68	< 1.35	< 0.73

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Moe 11
ACREAGE: 63
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: John Stewart
ADDRESS: 3870 N IL Rt. 71
Sheridan, IL 60551
815-695-5667

Source of biosolids
1 Sandwhich
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 2023	0	0.41	0.46	0.15	0.1	0.55	0.01	0	0	0.05	0.000	
2	June 2023	0.005	0.074	0.81	0.034	0.005	0.12	0	0	0	0	0.014	5.38 pci/g
	TOTAL	0.01	0.48	1.27	0.18	0.11	0.67	0.01	0	0	0.05	0.014	
	%of LIMIT	0.1	0.2	0.1	0.2	0	0.1	0	0	0	0.3		

1	Background Radium	2.380	
2	Site Limit	3.000	
3	Cumulative Total to Date	2.394	
4	% of Total Cumulative Limit	79.80	

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	See Next Page
Section Number	25	Township *(Number and Direction)*	T35N
Tillable Acres	193.26	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Compost 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.572	+/-	0	Radium-228	0.790	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/5/23	185.41	.96	193.26	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 15, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LS Compost 1 PIN

10-25-200-001

10-25-203-000

10-25-200-003

10-25-201-000

10-25-400-001

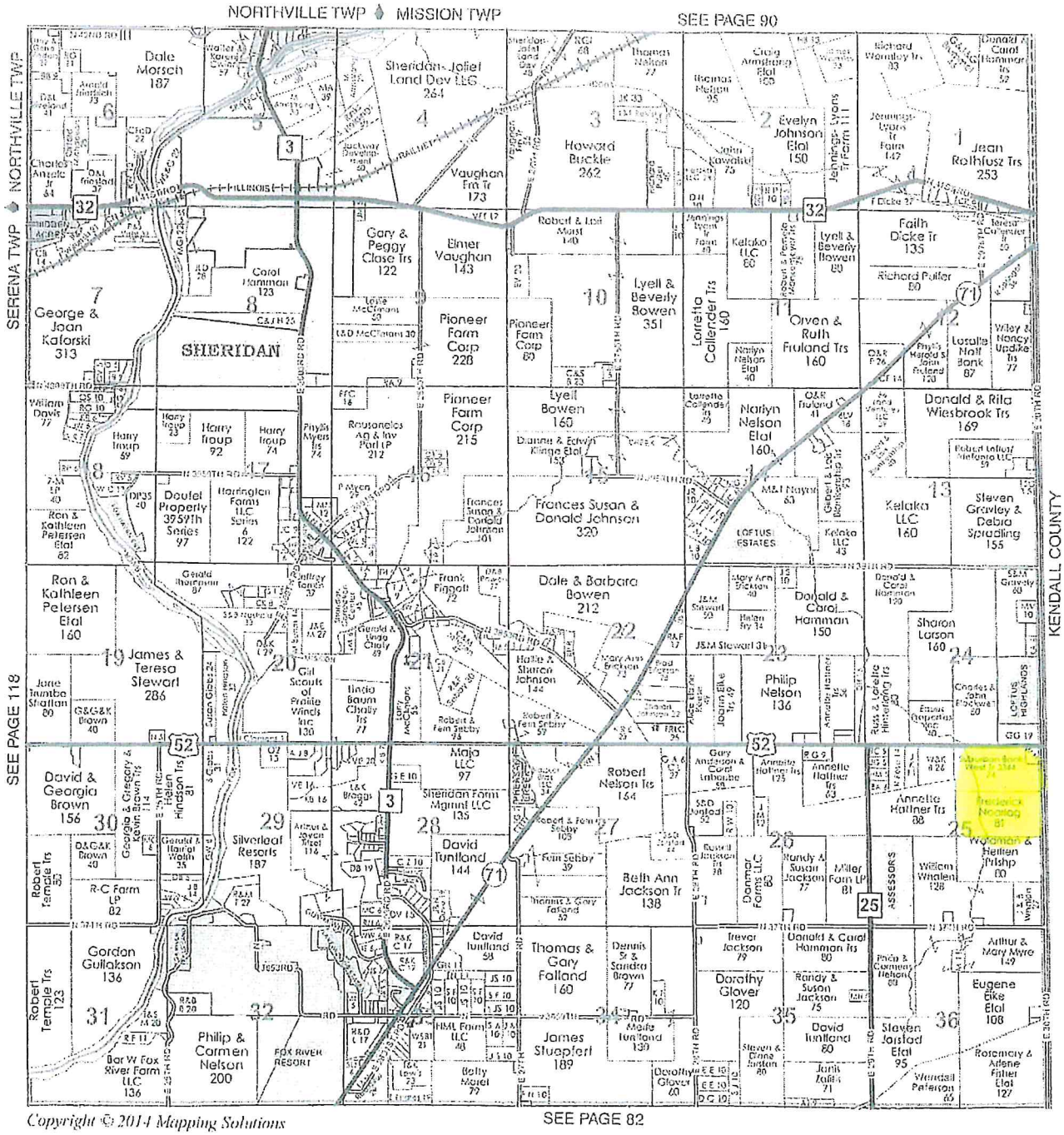
10-25-400-000

10-25-200-002

10-25-204-000

John Stewart
3870 N. Rt 71
Sheridan, IL 60551
815-695-5667

LS Compost 1
193.26 acres
LaSalle County
Mission Township
Section 25

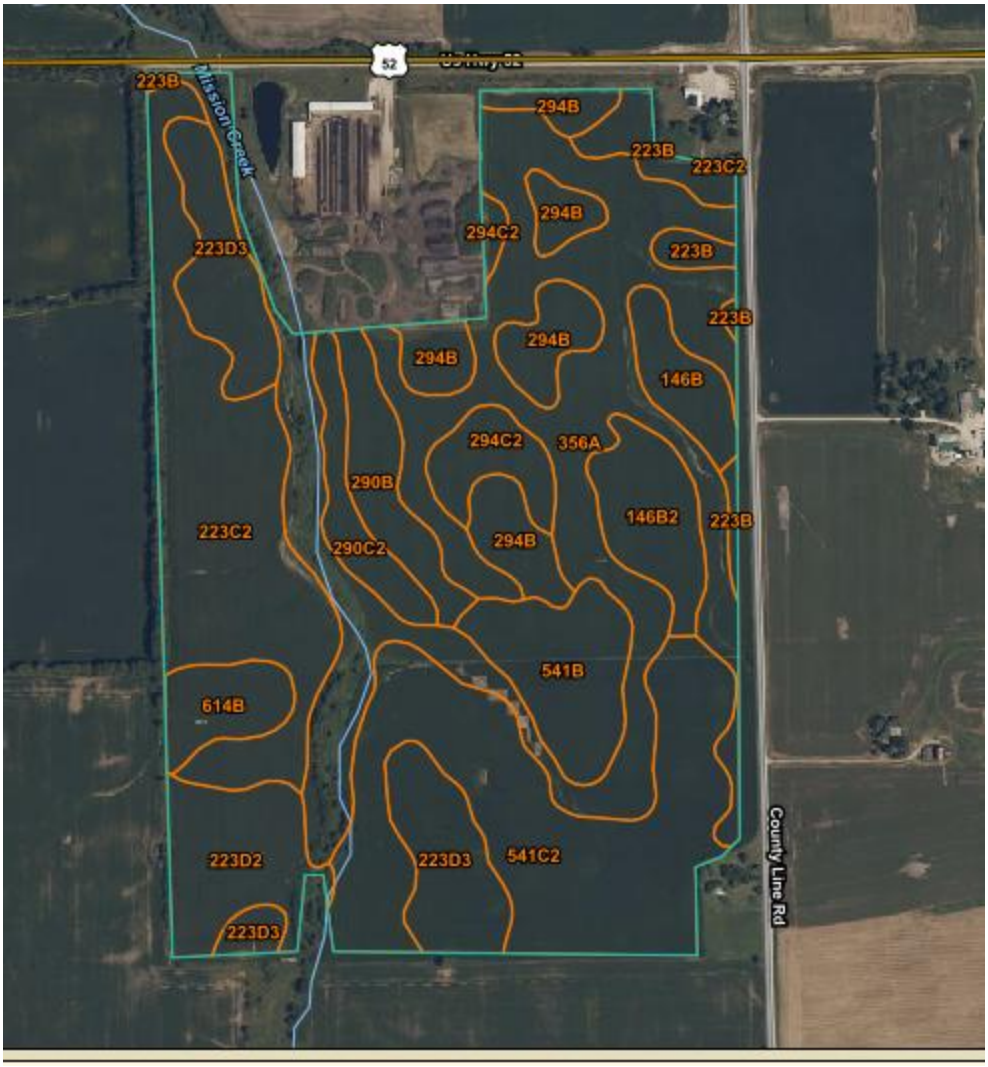


LRM0824

John Stewart
3870 N Rt. 71
Sheridan IL 60551
815-695-5667

LS Compost 1
193 acres
LaSalle County
Mission Township
Section 25

146B	Elliott silt loam, 2 to 4 percent slopes	4.3	2.2%	0.06 to 0.20 in/hr
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded	6.9	3.6%	0.06 to 0.20 in/hr
223B	Varna silt loam, 2 to 4 percent slopes	5.2	2.7%	0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	26.7	13.7%	0.06 to 0.20 in/hr
223D2	Varna silt loam, 6 to 12 percent slopes, eroded	9.2	4.7%	0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	15.9	8.2%	0.06 to 0.20 in/hr
290B	Warsaw silt loam, 2 to 4 percent slopes	6.0	3.1%	0.60 to 2.00 in/hr
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	4.5	2.3%	0.06 to 0.20 in/hr
294B	Symerton silt loam, 2 to 5 percent slopes	12.7	6.5%	0.06 to 0.20 in/hr
294C2	Symerton silt loam, 5 to 10 percent slopes, eroded	4.9	2.5%	0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	52.2	26.8%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	9.4	4.8%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	32.3	16.6%	0.06 to 0.20 in/hr
614B	Chenoa silty clay loam, 2 to 5 percent slopes	24.5	2.3%	0.06 to 0.20 in/hr


52
US Hwy 52
Mission Creek
County Line Rd
223B
294B
223B
223C2
294B
294C2
223D3
223B
223B
294B
294B
146B
294C2
356A
290B
223C2
146B2
223B
290C2
294B
541B
614B
223D2
223D3
541C2
223D3

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20030226**

Date Reported: **4/3/2020**

CLIENT: Stewart Spreading, Inc **Collection Date:** 10/16/2019 1:35:00 PM

Project: LS Hatner 1&2

Lab ID: 20030226-002 **Matrix:** SOLID

Client Sample ID: LS Compost 1+ 2

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)					**E901.1M**		Analyst: **CXS**
Radium-226	0.572			pCi/g-dry		1	4/1/2020 9:40:00 AM
Radium-228	0.790			pCi/g-dry		1	4/1/2020 9:40:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: LS Compost 1
ACREAGE: 193.26
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 25

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids

1 Elmhurst
2 Wheaton
3 Naperville pile 1
4 Naperville pile 2
5 Naperville pile 3
6 Bensenville
7 DuPage
8 Aurora Lime
9 Plainfield
10 Lasma-Lagoon 28
11 Glendale Heights
12 Sandwhich

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb-20	0	0.66	0.7	0.01	0.03	0.69	0.01	0	0.01	0.01				630		96.81
2	Feb-20	0.000	1.350	1.320	0.030	0.060	1.900	0.010	0.000	0.010	0.040	0.0010			658		145.25
3	Apr-20	0.000	2.150	1.540	0.070	0.050	2.990	0.010	0.000	0.030	0.030				1733		300.15
4	Apr-20	0.000	2.610	1.730	0.090	0.070	3.410	0.040	0.000	0.030	0.050				2660		442.63
5	Apr-20	0.000	1.390	0.830	0.050	0.030	1.890	0.020	0.000	0.020	0.020				1547		252.17
6	Feb-21	0.000	0.850	1.320	0.060	0.100	0.930	0.010	0.000	0.010	0.020				1008		132.65
7	Feb-21	0.000	0.180	0.120	0.600	0.010	0.240	0.230	0.000	0.000	0.000				175		22.58
7	Mar-21	0.000	0.600	0.320	0.020	0.020	0.720	0.010	0.000	0.010	0.010				650		80.57
8	Mar-21	0.008	0.030	0.614	0.028	0.008	0.073	0.000	0.000	0.000	0.000	0.0060				1003.33	371.13
7	Apr-21	0.000	1.200	0.630	0.040	0.040	1.450	0.020	0.000	0.010	0.020				1200.00		148.74
9	Apr-21	0.029	1.740	0.870	0.090	0.020	2.470	0.060	0.001	0.060	0.050				4228		523.72
7	May-21	0.000	1.000	0.540	0.030	0.030	1.200	0.010	0.000	0.010	0.020				975		120.86
8	Jun-21	0.013	0.051	1.024	0.047	0.013	0.122	0.000	0.000	0.000	0.000	0.0100				1194.18	623.41
8	Feb-22	0.002	0.007	0.197	0.007	0.002	0.018	0.000	0.000	0.000	0.000	0.0010				369.55	121.77
8	Mar-22	0.000	0.000	0.012	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.0000				22.28	6.81
10	May-22	0.030	3.380	3.680	0.340	0.600	6.190	0.030	0.000	0.090	0.130					4651.36	907.02
7	May-22	0.030	3.380	3.680	0.340	0.600	6.190	0.030	0.000	0.090	0.130				200		27.34
7	Jun-22	0.000	0.080	0.060	0.000	0.000	0.100	0.000	0.000	0.000	0.000				75		10.63
10	Jun-22	0.010	0.960	1.050	0.100	0.170	1.760	0.010	0.000	0.030	0.040				1322.53		257.89
11	Feb-23	0.000	0.050	0.050	0.010	0.030	0.020	0.090	0.000	0.000	0.000	0.0000			120		16.3
11	Mar-23	0.000	0.110	0.110	0.060	0.040	0.180	0.000	0.000	0.000	0.020				240		32.6
7	Jan-23	0.000	0.930	0.430	0.080	0.040	1.380	0.010	0.000	0.010	0.030				950		119.37
7	Feb-23	0.010	1.300	0.590	0.110	0.050	1.930	0.010	0.000	0.010	0.040				1325		166.49
7	Mar-23	0.000	0.810	0.370	0.070	0.030	1.200	0.010	0.000	0.010	0.020				925		106.8
11	Apr-23	0.000	0.140	0.140	0.080	0.050	0.230	0.000	0.000	0.000	0.030				300		40.75
1	Apr-23	0.000	0.070	0.020	0.000	0.000	0.170	0.000	0.000	0.000	0.000				215		27.38
7	Apr-23	0.010	1.030	0.540	0.040	0.030	1.190	0.010	0.000	0.010	0.020				1225		153.92
11	May-23	0.000	0.130	0.230	0.000	0.000	0.230	0.000	0.000	0.000	0.000				280		37.8
4	May-23	0.000	0.780	0.360	0.030	0.020	1.000	0.010	0.000	0.010	0.010				777		131.27
7	May-23	0.000	0.340	0.180	0.010	0.010	0.400	0.000	0.000	0.000	0.010					525	65.97
12	Jun-23	0.000	0.180	0.200	0.070	0.040	0.240	0.000	0.000	0.000	0.020				252		32.09
11	Jun-23	0.000	0.030	0.050	0.000	0.000	0.050	0.000	0.000	0.000	0.000				60		8.1
8	Jun-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.0030				466.46	185.41
	TOTAL	0.14	27.52	23.51	2.51	2.19	40.56	0.64	0	0.46	0.77	0.021	pci/g				
	%of LIMIT	1.4	11	2.6	2.5	0.2	8.1	0.6	0	5.8	4.8						

1	Background Radium	1.362	pci/g
2	Site Limit	2.362	pci/g
3	Cumulative total to Date	1.383	pci/g
4	% of Total Cumulative Limit	58.55	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	10-14-300-03710-14-315-000
Section Number	14	Township *(Number and Direction)*	T35N
Tillable Acres	9.2	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Roberts 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.00	+ / -	0	Radium-228	1.59	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/3/23	36.46	3.96	9.2	2.90	2.48

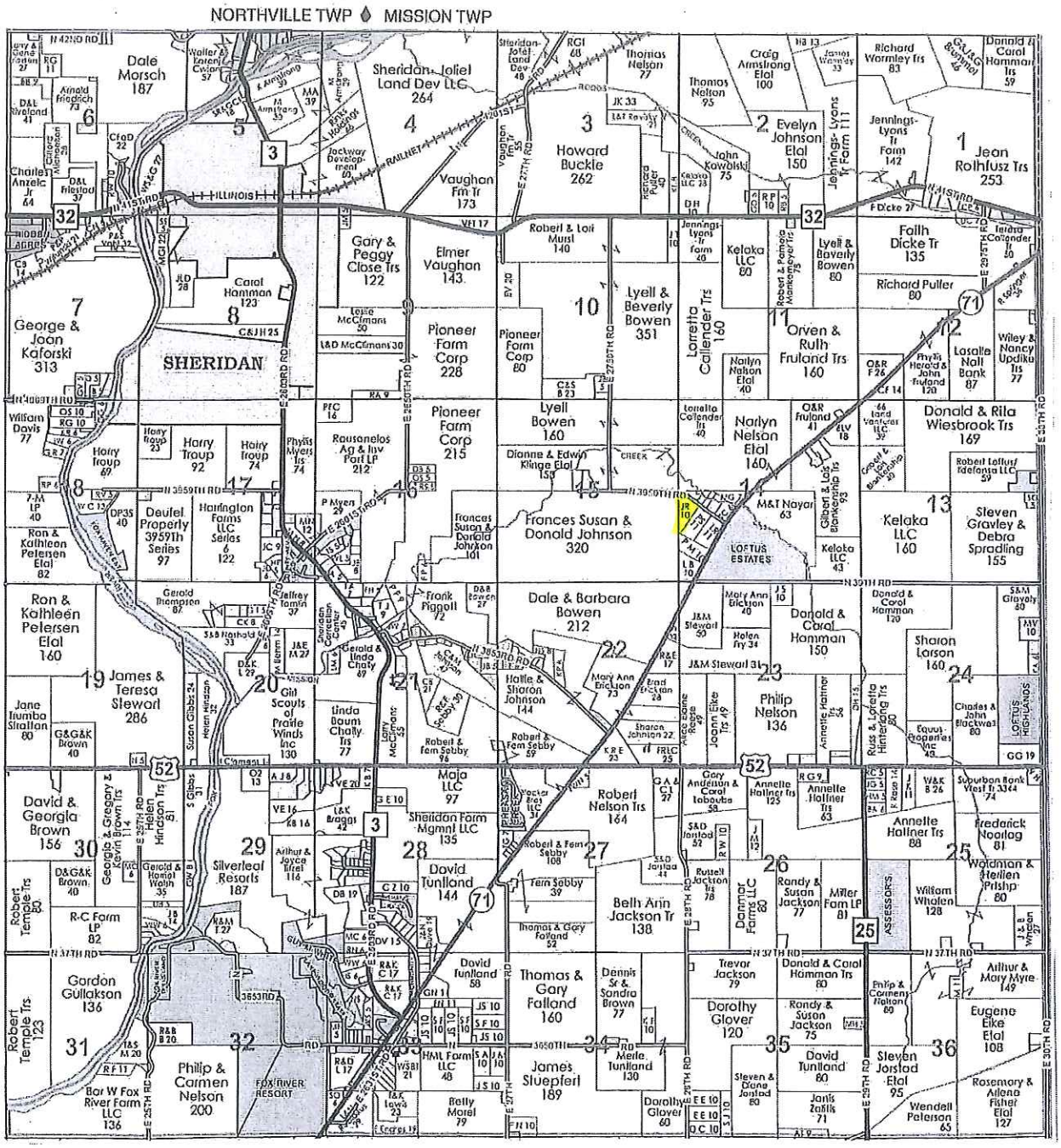
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 15, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

John Stweart
3870 US RT 71
Sheridan IL 60551
815-695-5667

LS Roberts 1
9.2 acres
LaSalle County
Mission Township
Section 14



LRM0830

John Stweart
3870 US RT 71
Sheridan IL 60551
815-695-5667

LS Roberts 1
9.2 acres
LaSalle County
Mission Township
Section 14

91B	Swygert silty clay loam, 2 to 4 percent slopes	2.6	30.9%	0.02 to 0.06 in/hr
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	0.8	9.8%	0.02 to 0.06 in/hr
103A	Houghton muck, 0 to 2 percent slopes	0.4	5.0%	0.20 to 6.00 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	0.3	3.2%	0.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	0.4	4.8%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	1.3	16.1%	0.02 to 0.06 in/hr
435A	Streator silty clay loam, 0 to 2 percent slopes	2.4	28.7%	0.02 to 0.20 in/hr
448C2	Mona silt loam, 5 to 10 percent slopes, eroded	0.1	1.6%	0.02 to 0.06 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, August 23, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230231-2 is in Table 1. Stewart Spreading identified the samples as LS Mitchell 2 (Soil) and LS Roberts 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs	
	G230231	G230232
	LS Mitchell 2 (Soil)	LS Roberts 1 (Soil)
Ac-228	1.34	1.59
Ra-228[1]	1.34	1.59
Pb-214	1.05	0.93
Bi-214	0.98	1.06
Ra-226[2]	1.01	1.00
Total Radium[3]	2.36	2.58

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: LS Roberts 1
ACREAGE: 9.2
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 14

FARMER: John Stewart
ADDRESS: 3870 N. Rout 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids
1 Bensenville
2 Sandwich
3 DuPage
4 Downers Grove
5 Lasma lagoon 28
6 Aurora Lime

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	June 2018	0.010	5.7100	6.200	0.340	0.510	5.550	0.05	0.00	0.06	0.08				382		46.05	
2	May 2021	0.040	2.790	2.790	0.120	0.080	2.790	0.08	0.01	0.12	0.04				220		33.62	
3	May 2021	0.00	1.10	0.57	0.03	0.03	1.30	0.01	0.00	0.01	0.02				50		6.2	
4	Jun-22	0.02	2.34	0.51	0.09	0.10	1.04	0.04	0.00	0.04	0.04				168		16.63	
3	June 22	0.01	3.16	2.25	0.18	0.12	3.89	0.04	0.00	0.04	0.07				150		21.27	
5	June 22	0.01	1.69	1.84	0.17	0.30	3.09	0.01	0.00	0.05	0.06					112.39	21.92	
6	June 23	0.004	0.058	0.635	0.027	0.004	0.094	0.000	0.000	0.000	0.000	0.0110				89.62	36.46	
	TOTAL	0.094	16.848	14.795	0.957	1.144	17.754	0.23	0.01	0.32	0.31	0.011						
	%of LIMIT	0.9	6.7	1.6	1	0.1	3.6	0.2	0	4	1.9							

1	Background Radium	2.580	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.591	pci/g
4	% of Total Cumulative Limit	86.37	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	10-14-300-044,10-14-322-000
Section Number	22	Township *(Number and Direction)*	T35N
Tillable Acres	8.88	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Burkhart 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.890	+ / -	0.160	Radium-228	0.849	+ / -	0.260

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/2/23	36.46	4.11	8.88	2.90	2.48

5. I certify the information provided above is accurate,

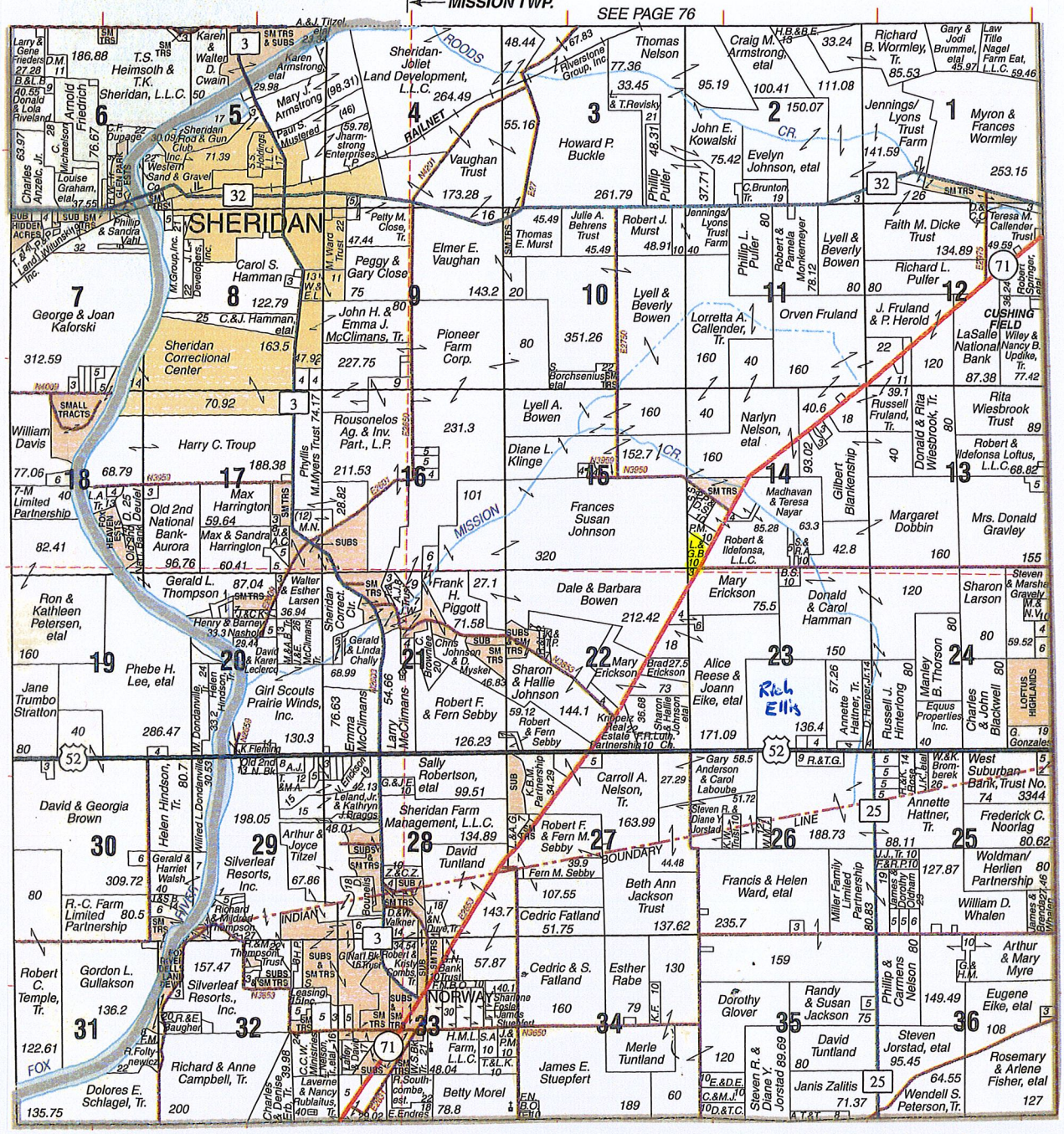
Signature: Billie M Marko Date: Sep 15, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

LS Burkhart 1
8.88 acres
LaSalle County
Mission Township
Section 22

SOUTH PART NORTHVILLE
EAST PART SERENA SOUTH PART MISSION
T.35N.-R.5E



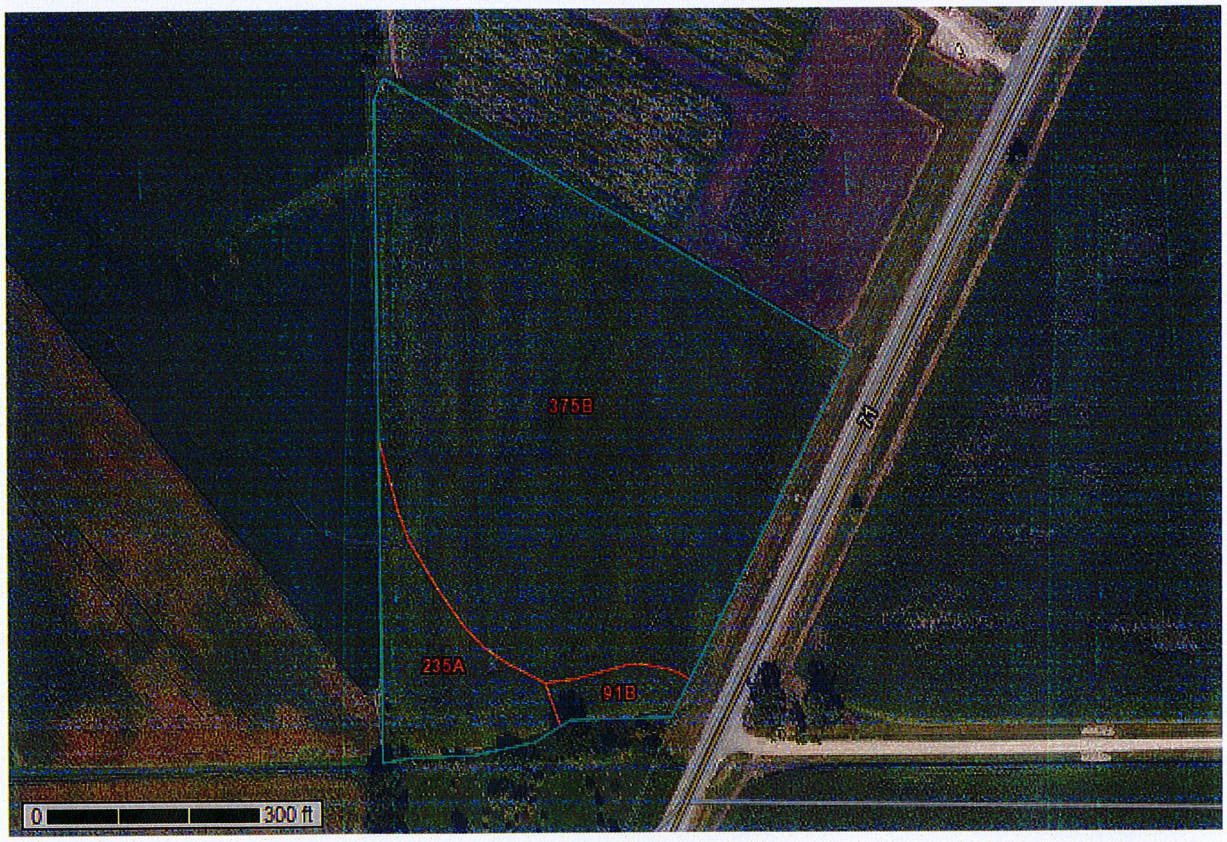
A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com
LRM0835

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

LS Burkhart 1
8.88 acres
LaSalle County
Mission Township
Section 22

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Rutland, 375B	SiCL	2-5%	0.6-2.0 in/hr
Mona, 448C2	SiL	5-10%	0.6-2.0 in/hr
Blackberry, 679B	SiL	2-5%	0.6-2.0 in/hr
Bryce silty clay 235A	SiCL	0-2%	(0.02 to 0.06 in/hr)
Swygert 91B	SiCL	2-4%	(0.02 to 0.06 in/hr)



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **18071581**

Date Reported: **8/21/2018**

CLIENT: Stewart Spreading, Inc
Collection Date: 4/20/2018 1:14:00 PM
Project: Radium 226/228
Lab ID: 18071581-001
Matrix: SOIL
Client Sample ID LS Burkhart 1

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.890	0.0274		pCi/g-dry	± 0.160	1	8/20/2018 12:27:00 PM
Radium-228	0.849	0.0959		pCi/g-dry	± 0.260	1	8/20/2018 12:27:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: LS Burkhart 1
ACREAGE: 8.88
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 22

FARMER: John Stewart
ADDRESS: 3870 N. Rout 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acr

Source of biosolids
1 Bensenville
2 Sheridan
3 Geneva
4 Sandwich
5 DuPage
6 Lasma lagoon 28
7 Salt Creek
8 Aurora Lime

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	June 2018	0.000	3.6200	3.930	0.210	0.330	3.520	0.03	0.00	0.03	0.05				225		27.13	
2	June 2018	0.000	1.630	1.410	0.060	0.070	1.640	0.00	0.00	0.05	0.02	0.020			150		34.51	
3	Jan-20	0.04	4.41	2.16	0.24	0.20	8.85	0.05	0.02	0.08	0.11	0.100			380		70.01	
4	May-21	0.06	4.07	4.07	0.18	0.12	4.07	0.12	0.01	0.18	0.06	0.010			312		47.68	
5	May-21	0.00	0.56	0.30	0.02	0.02	0.69	0.01	0.00	0.01	0.01				25		3.1	
5	Jun-22	0.00	1.57	1.12	0.09	0.06	1.93	0.02	0.00	0.02	0.03				75		10.63	
6	Jun-22	0.03	3.97	4.34	0.40	0.71	7.28	0.03	0.00	0.11	0.15					243.67	47.52	
7	May-23	0.02	5.24	7.31	0.71	0.32	8.83	0.01	0.01	0.03	0.13				260		38.85	
8	Jun-23	0.00	0.06	0.66	0.03	0.00	0.10	0.00	0.00	0.00	0.00	0.0110				89.63	36.46	
	TOTAL	0.152	25.130	25.299	1.938	1.834	36.908	0.27	0.04	0.51	0.56	0.141						
	%of LIMIT	1.5	10.1	2.8	1.9	0.2	7.4	0.3	0	6.4	3.5							

1	Background Radium	1.739	pci/g
2	Site Limit	2.739	pci/g
3	Cumulative total to Date	1.880	pci/g
4	% of Total Cumulative Limit	68.64	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

app

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: WL Lincolnway 1

6.) Size of Area Where Lime is to be Used: 153.76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied Approx 3000 wet tons

Years Applied 2020 and 2021 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County,

6.) Size of Area Where Lime is to be Used: 63 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Benjamin W. Moe 5/10/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Compost 1

6.) Size of Area Where Lime is to be Used: 193.26 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx 1500 wet tons

Years Applied 2021 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Roberts 1

6.) Size of Area Where Lime is to be Used: 9.2 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Burkhart 1

6.) Size of Area Where Lime is to be Used: 8.88 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-18-200-023,07-17-100-001
Section Number	17	Township *(Number and Direction)*	T35N
Tillable Acres	184	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Ferndell 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.98	+ / -	0	Radium-228	1.27	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/19/23	993.72	5.4	184	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **July 2023**

Biosolids Field Record

Site: KE Ferndell 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/5/2023	7/19/2023	City of Aurora - Lime	358.43	38.76	138.93
6/12/2023	7/19/2023	City of Aurora - Lime	803.64	40.44	324.99
6/14/2023	7/19/2023	City of Aurora - Lime	803.57	39.6	318.21
6/15/2023	7/19/2023	City of Aurora - Lime	427.18	49.53	211.58
Total			2392.82		993.72

Biosolids Field Record

Site: KE Moe 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	7/20/2023	City of Aurora - Lime	117.17	36.5	42.77
7/11/2023	7/20/2023	City of Aurora - Lime	770.29	36.77	283.24
Total			887.46		326.00

Biosolids Field Record

Site: LS Bicksler 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/11/2023	7/20/2023	City of Aurora - Lime	47.22	36.77	17.36
7/17/2023	7/20/2023	City of Aurora - Lime	353.51	42.76	151.16
7/18/2023	7/20/2023	City of Aurora - Lime	371.32	38.99	144.78
Total			772.05		313.30

Biosolids Field Record

Site: LS Hamman 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/17/2023	7/21/2023	City of Aurora - Lime	167.13	42.76	71.46
7/18/2023	7/21/2023	City of Aurora - Lime	188.34	38.99	73.43
Total			355.47		144.90

Biosolids Field Record

KE Moe 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/18/2023	7/18/2023	City of Aurora - Lime	186.12	38.99	72.57
7/19/2023	7/19/2023	City of Aurora - Lime	557.32	37.38	208.33
7/20/2023	7/20/2023	City of Aurora - Lime	168.43	37.23	62.71
Total			911.87		343.60

Biosolids Field Record

Site: KE Stewart 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/20/2023	7/22/2023	City of Aurora - Lime	310.02	37.23	115.42
7/21/2023	7/22/2023	City of Aurora - Lime	491.69	42.41	208.53
Total			801.71		323.95

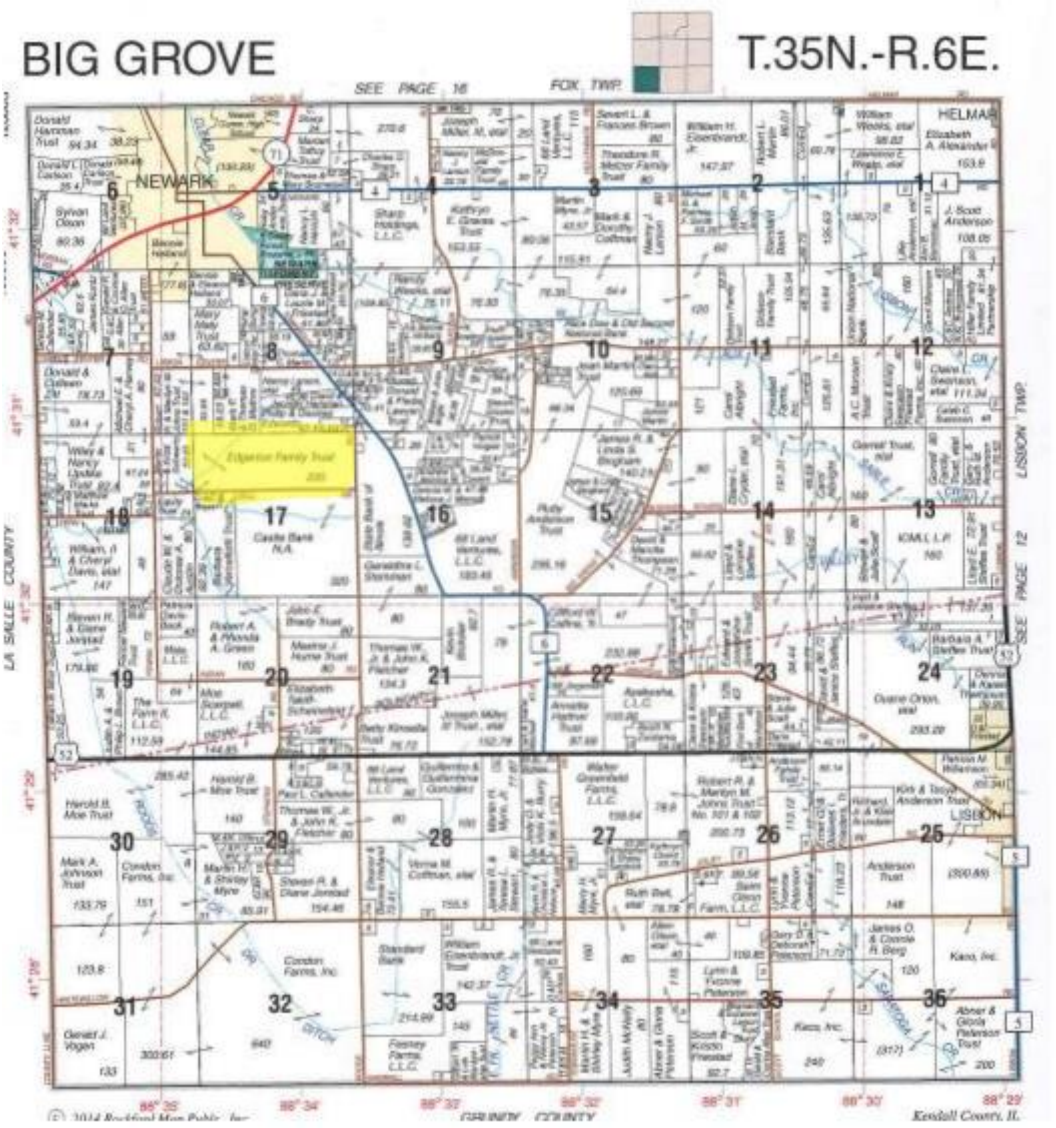
Biosolids Field Record

Site: LS Penoyer 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	7/21/2023	City of Aurora - Lime	301.14	36.5	109.92
Total			301.14		109.92

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Fern Dell Field 1
184 acres
Kendall County
Big Grove Township
Section 17



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Fern Dell Field 1
184 acres
Kendall County
Big Grove Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon 59A	SiL	0-2%	0.6-2.0 in/hr
La Rose silt 60B2		2-5%	0.06 to 0.60 in/hr
La Rose silt 60C2		5-10%	0.06 to 0.60 in/hr
La Rose silt 60C3		5-10%	0.06 to 0.60 in/hr
Saybrook 145 B	SiCL	1-3%	0.6-2.0 in/hr
Saybrook 145 B2	SiCL	2-5%	0.6-2.0 in/hr
Saybrook 145C2	SiCL	5-10%	0.6-2.0 in/hr
Strawn silt loam 224C2		5-10%	0.06 to 0.60 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr
Peotone silty clay loam		0-2%	0.20 to 0.60 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991
consult@rssi.us

Friday, April 01, 2022

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551
USA

greg@stewartspreading.com

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for our sample numbers G220061-2 is in Table 1. Stewart Spreading identified the samples as KE Jim Brummel and KE Fem Dell. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID	
	G220061	G220062
	KE Jim Brummel	KE Fem Dell
Ac-228	1.49	1.27
Ra-228[1]	1.49	1.27
Pb-214	< 0.06^	< 0.07^
Bi-214	0.90	0.98
Ra-226[2]	0.90	0.98
Total Radium[3]	2.39	2.24

NOTES
^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant photons represent the concentrations of these radionuclides. The successful use of surrogates depends upon the radionuclides in each series being in equilibrium.

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is authorized by Illinois Emergency Management Agency License No. IL-01429-01 and accredited to the ISO/IEC 17025:2017 standard by PJLA under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761 in accordance with the ASTM standard C1402-17.

ilac-MRA
PJLA Testing Accreditation #101315

METAL LOADING RECORD

SITE NUMBER: KE Fern Dell 1
ACREAGE: 184
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Aurora Lime
2 Downers Grove Sanitary District
3 City of Naperville
4 DuPage
5 Lasma Lagoon 28
6 Lasma Cell 3, 4 and 5
7 Lasma cell 2 Marathon Lag 26
8 Glendale Heights

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	2/1/2022	0.007	0.032	0.836	0.029	0.007	0.076	0.000	0.000	0.000	0	0.005				1590.16	492.86
2	May-22	0.01	1.05	0.23	0.04	0.04	0.46	0.02	0	0.02	0.02				1512		149.68
3	May-22	0.01	3.3	1.47	0.08	0.07	4.34	0.02	0	0.04	0.05				3161		515.27
4	May-22	0	0.44	0.26	0.01	0.02	0.59	0	0	0	0.01				475		64.93
4	Jun-22	0	0.17	0.12	0.01	0.01	0.21	0	0	0	0				150		21.27
5	Jun-22	0.01	0.96	1.05	0.1	0.17	1.76	0.01	0	0.03	0.04					1288.26	251.21
6	Jun-22	0.01	1.5	1.64	0.14	0.29	2.8	0.04	0	0.04	0.04					1093.91	322.11
6	Oct-22	0.04	7.05	9.65	0.62	1.18	11.53	0.15	0.01	0.15	0.19					4434.91	1379.25
7	Oct-22	0.020	2.120	2.480	0.200	0.430	4.160	0.050	0.000	0.050	0.060					1427.51	443.95
8	July.23	0.000	0.050	0.090	0.000	0.000	0.090	0.000	0.000	0.000	0.000				100.00		13.50
5	July.23	0.100	9.430	10.520	0.980	1.900	19.480	0.200	0.010	0.200	0.350					5927.53	1979.80
1	July.23	0.005	0.079	0.868	0.037	0.005	0.129	0.000	0.000	0.000	0.000	0.015	5.38 pci/g			2392.82	993.72
	TOTAL	0.210	26.180	29.210	2.250	4.120	45.630	0.490	0.020	0.530	0.760	0.020	pci/g				
	%of LIMIT	2.1	10.5	3.2	2.3	0.4	9.1	0.5	0	6.6	4.7						

1	Background Radium	2.240	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.260	pci/g
4	% of Total Cumulative Limit	75.33	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Next Page
Section Number	30	Township *(Number and Direction)*	T35N
Tillable Acres	81	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Moe 9

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.26	+/-	0	Radium-228	1.21	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/20/23	326	4	81	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

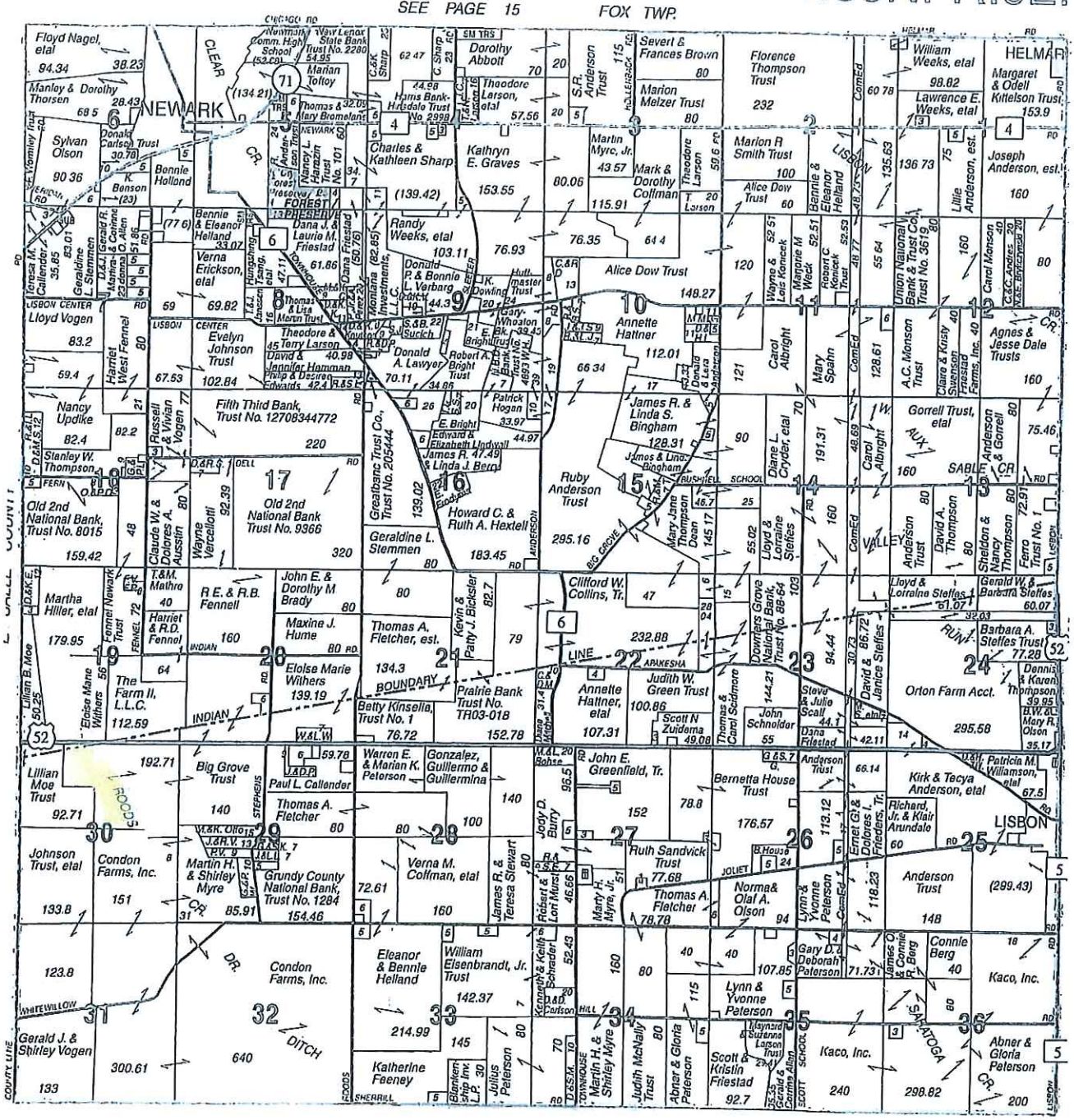
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 9
81 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.



LRM0858

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 9
81 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Drummer, 152A	SiCL	0-2%
Elburn, 198A	SiL	0-2%
Varna, 223 B	SiL	2-4%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Strawn, 224C2	SiL	6-12%
Graymont, 541B	SiL	2-5%
Graymont, 541C2	SiL	5-10%



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Monday, November 06, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Moe Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230296-7 is in Table 1. Stewart Spreading identified the samples as KE Moe 8 (Soil) and KE Moe 9 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs	
	G230296	G230297
	KE Moe 8 (Soil)	KE Moe 9 (Soil)
Ac-228	0.91	1.21
Ra-228[1]	0.91	1.21
Pb-214	0.69	1.13
Bi-214	0.67	1.40
Ra-226[2]	0.68	1.26
Total Radium[3]	1.59	2.47

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	9	COUNTY:	Kendall		Source of biosolids
ACREAGE:	81	TOWNSHIP:	Big Grove	1	LASMA - Lagoon # 30
		SECTION:	30	2	Dupage County
FARMER:	Benjamin H. Moe			3	LASMA- Lagoon 29
ADDRESS:	415 Walnut Street			4	LASMA-Lagoon 28
	Yorkville, IL 60560			5	Naperville
PHONE #:	630-553-2798			6	Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Mar. 2012	0.08	8.17	9.67	0.82	2.33	16.40	0.16	0.03	0.10	0.33					3441.53	922.33
2	Nov. 2012	0.00	1.69	0.97	0.05	0.09	2.22	0.01	0.00	0.01	0.03					625	84.9
2	Dec. 2012	0.00	1.94	1.12	0.06	0.10	2.55	0.01	0.00	0.02	0.03					750	101.88
2	Jan. 2013	0.00	2.16	1.17	0.06	0.12	2.64	0.01	0.00	0.02	0.04					775	102.6441
2	Feb. 2013	0.00	2.16	1.17	0.06	0.12	2.64	0.01	0.00	0.02	0.04					100	13.2444
3	Nov-16	0.06	6.36	4.76	0.64	1.45	13.08	0.08	0.02	0.08	0.16					2850.85	610.08
4	Aug-17	0.02	2.33	1.70	0.24	0.62	4.93	0.04	0.00	0.03	0.04					855.5	214.73
5	Sep-20	0.01	6.58	3.40	0.21	0.13	8.57	0.05	0.01	0.05	0.05					2911.00	405.32
4	Aug-21	0.08	12.59	16.2	1.21	2.51	23.46	0.28	0.01	0.28	0.41					2923.15	1131.26
3	Aug-21	0	0.09	0.09	0.01	0.01	0.16	0	0	0	0					42.95	8.55
4	Sep-22	0.07	4.96	5.48	0.47	0.97	9.85	0.07	0	0.12	0.19					2211.57	488.76
4	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					1354.67	452.46
6	Jul-23	0.004	0.058	0.642	0.027	0.004	0.095	0	0	0	0	0.011	5.38 pci/g			887.46	326.00
4	Aug-23	0.020	3.390	3.130	0.310	0.450	6.340	0.07	0	0.07	0.15					1444.65	301.93
	TOTAL	0.39	57.72	55.34	4.71	9.95	103.76	0.9	0.08	0.91	1.66	0.0110					
	%of LIMIT	3.9	23.1	6.1	4.7	1	20.8	0.9	0.1	11.4	10.3						

Background Radium	2.470	pci/g
Site Limit	3.000	pci/g
Cumulative total to Date	2.481	pci/g
% of Total Cumulative Limit	82.70	%

1 Background Radium determined from soil test results

2 Radium Concentration in soil can not exceed this limit

3 Cumulative toatal includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	10-24-300-000
Section Number	24	Township *(Number and Direction)*	T35N
Tillable Acres	78.8	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Bicksler 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.64	+ / -	0	Radium-228	0.92	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/20/23	313.30	3.9	78.8	2.90	2.48

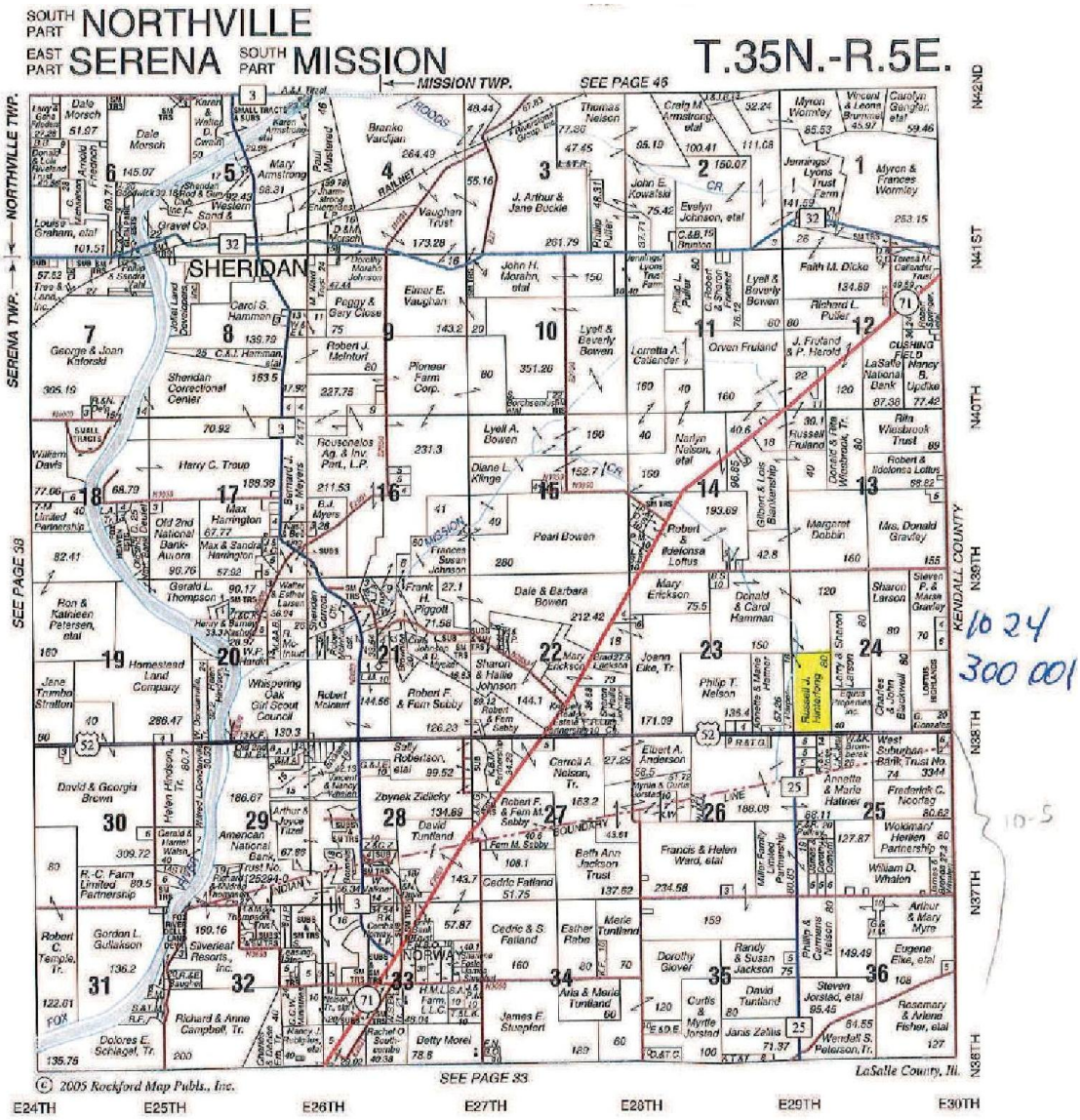
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Plat Map

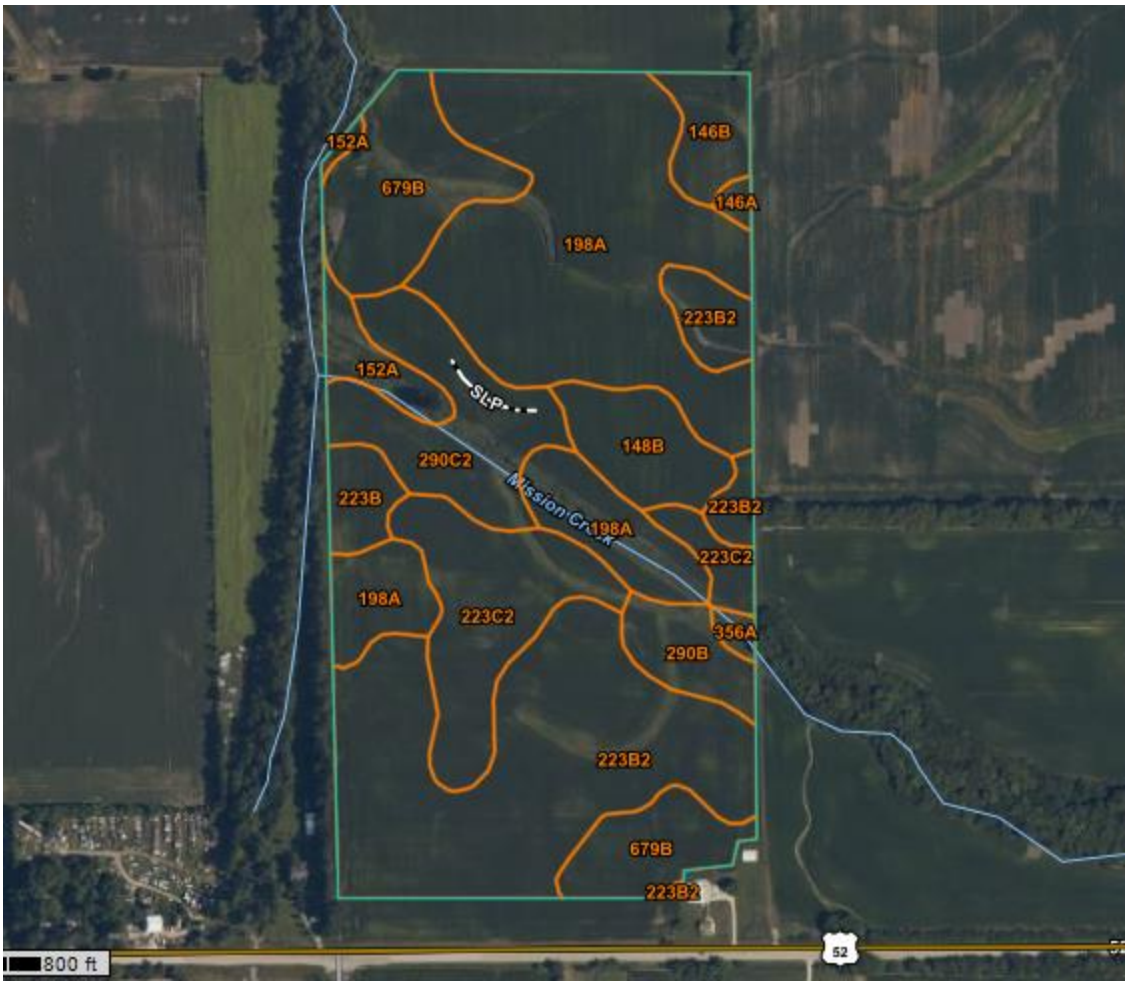
LS Bicksler 1
78.8 acres
LaSalle County
Serena Township
Section 24



LRM0863

LS Bicksler 1
78.8 acres
LaSalle County
Serena Township
Section 24

146A	Elliott silt loam, 0 to 2 percent slopes	0.3	0.4%
146B	Elliott silt loam, 2 to 4 percent slopes	1.9	2.7%
148B	Proctor silt loam, 2 to 5 percent slopes	3.1	4.3%
152A	Drummer silty clay loam, 0 to 2 percent slopes	1.7	2.4%
198A	Elburn silt loam, 0 to 2 percent slopes	21.4	30.0%
223B	Varna silt loam, 2 to 4 percent slopes	1.4	1.9%
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	18.2	25.5%
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	7.2	10.0%
290B	Warsaw silt loam, 2 to 4 percent slopes	2.0	2.9%
290C2	Warsaw silt loam, 4 to 6 percent slopes, eroded	5.9	8.3%
356A	Elpaso silty clay loam, 0 to 2 percent slopes	0.3	0.5%
679B	Blackberry silt loam, 2 to 5 percent slopes	7.9	11.1%


152A
146B
679B
146A
198A
223B2
152A
SLP
148B
290C2
Mission Cr
223B
223B2
198A
223C2
198A
223C2
356A
290B
223B2
679B
223B2
800 ft
52

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name:

Report Date: December 30, 2021
Workorder: **2112B82**

Client Sample ID: **LS Bicksler 1**
Lab ID: 2112B82-001 **Date Received:** 12/13/2021 11:16 AM

Matrix: SOIL
Collection Date: 06/01/2021 11:20 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-901.1-Rev 0				Analyst: DEB	
Radium-226	0.64	0.030	G	pCi/g	1	12/15/2021 12:00 AM	R143055
RADIUM-228		Method: EPA-901.1-Rev 0				Analyst: DEB	
Radium-228	0.92	0.11	G	pCi/g	1	12/15/2021 12:00 AM	R143055

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 78.8
FARMER: John Stewart
ADDRESS: 3870 N. IL Route 71
Sheridan, IL 60551
PHONE #: 815-695-5667

COUNTY: LaSalle
TOWNSHIP: Serena
SECTION: 24

Metal Loadings in Pounds per Acr

Source of biosolids
1 LASMA - Marathon
2 Lasma Lagoon 28
3 Bensenville
4 Wheaton
5 Aurora Lime
6 DuPage
7
8

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/l)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	August 2013	0.07	10.35	11.42	1.02	2.69	20.42	0.12	0.03	0.12	0.24					1194.24	440.67
1	July 2021	0.03	4.17	4.82	0.41	0.56	7.1	0.13	0	0.1	0.15					2007.28	393.43
3	July 2021	0	0.41	0.48	0.03	0.05	0.51	0.01	0	0.01	0.01				324		39.89
4	July 2021	0	0.13	0.04	0.01	0.02	0.34	0.01	0	0.01	0.01				108		11
5	July 2021	0.013	0.063	1.654	0.057	0.013	0.149	0.000	0.000	0.000	0.000	0.0100	3.57 pci/g			1126.3	416.29
6	August 2021	0.010	0.740	0.400	0.020	0.030	0.950	0.010	0.000	0.010	0.020				250		35.45
2	Sep-22	0.06	4.34	4.8	0.41	0.85	8.62	0.06	0	0.11	0.17					1861.97	411.50
5	Jul-23	0.004	0.057	0.626	0.027	0.004	0.093	0	0	0	0	0.0110	5.38 pci/g			772.05	313.30
	TOTAL	0.190	20.260	24.240	1.980	4.220	38.180	0.340	0.030	0.360	0.600	0.021	pci/g				
	%of LIMIT	1.9	8.1	2.7	2	0.4	7.6	0.3	0.1	4.5	3.7						

1	Background Radium	1.560	pci/g
2	Site Limit	2.560	pci/g
3	Cumulative Total to Date	1.581	pci/g
4	% of Total Cumulative Limit	61.76	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium is remainder of limit after background is removed
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** _____

◯ CWS ◯ POTW ◯ Applicator ◯ Other _____

2. Site Description and Location

County Name		Tax Parcel ID Number *(PIN)**	
Section Number		Township *(Number and Direction)*	
Tillable Acres		Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			LS Hamman 5

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◯ No ◯
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.700	+ / -	0.110	Radium-228	0.860	+ / -	0.170

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/21/23	144.9	.97	150	2.90	2.48

5. I certify the information provided above is accurate,

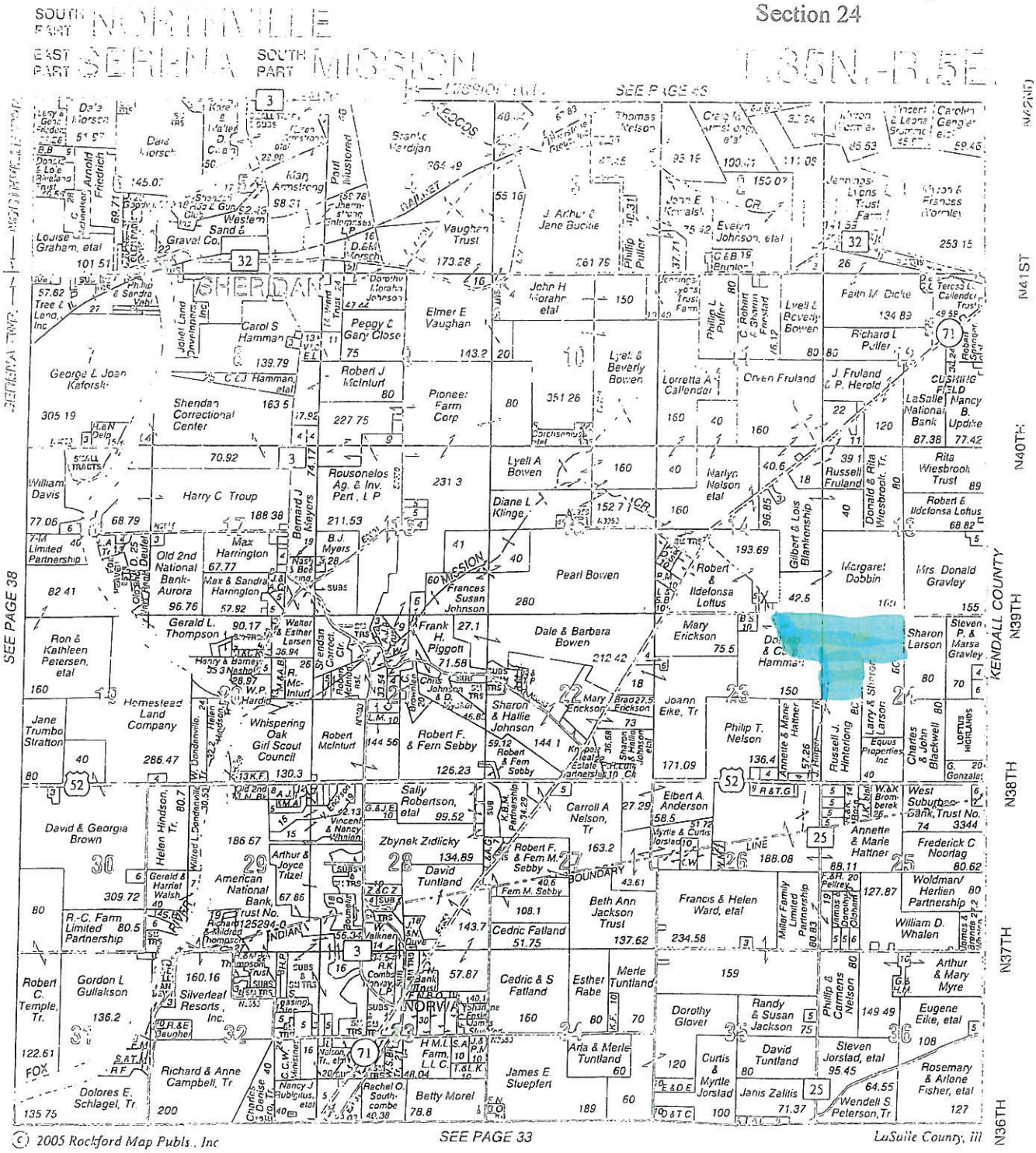
Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 Acres
LaSalle County
Mission Township
Section 24



© 2005 Rockford Map Publs., Inc

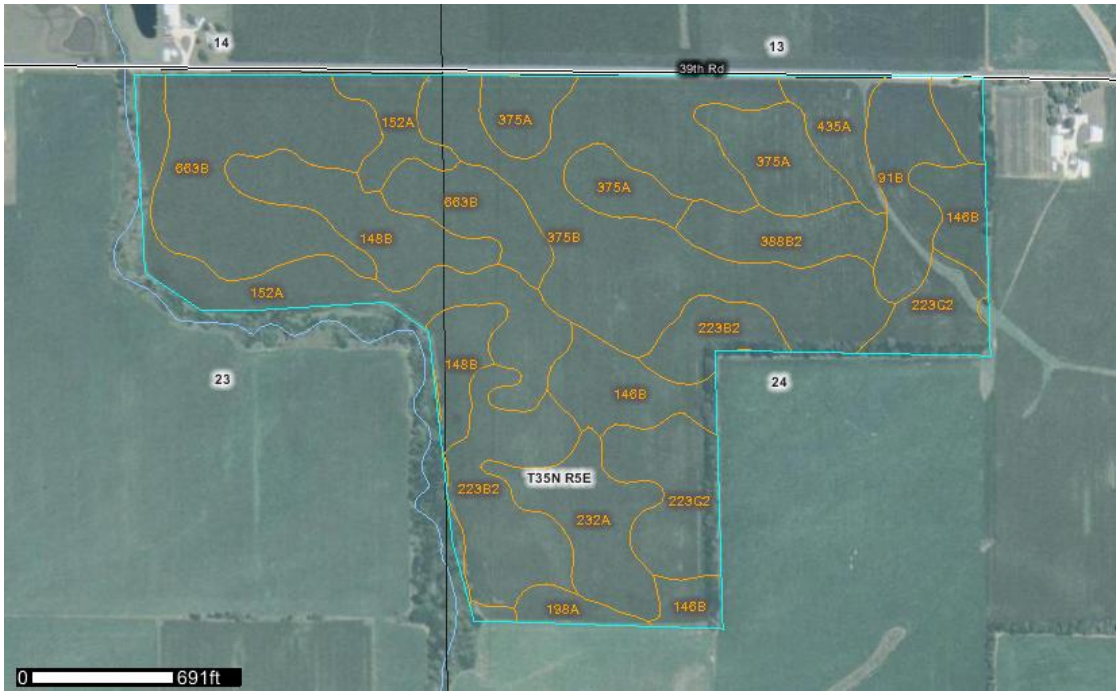
LaSalle County, Ill

SOIL SERIES

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 acres
LaSalle County
Mission Township
Section 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Swygert, 91B	SiCL	2-5 %	0.2-0.6 in/hr
Elliott, 146B	SiL	2-4 %	0.2-0.6 in/hr
Proctor, 148B	SiL	2-5%	0.2-0.6 in/hr
Drummer, 152A	SiL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiL	0-2 %	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4 %	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6 %	0.6-2.0 in/hr
Rutland, 375B	SiL	2-5 %	0.2-0.6 in/hr
Wenona, 388B2	SiCL	2-5 %	0.2-0.6 in/hr
Streator, 435A	SiCL	0-2 %	0.2-0.6 in/hr
Clare, 663B	SiL	2-5 %	0.2-0.6 in/hr
Blackberry, 679B	SiL	2-5 %	0.6-2.0 in/hr



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **15051924**

Date Reported: **6/19/2015**

CLIENT: Stewart Spreading, Inc **Collection Date:** 5/13/2015 10:00:00 AM

Project:

Lab ID: 15051924-001 **Matrix:** SOLID

Client Sample ID LS Hamman 5

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
SOLID GAMMA SPECIFICATIONS ANALYSIS (901.1)				**E901.1**			Analyst: **CM**
Radium-226	0.700	0.0210		pCi/g	± 0.110	1	6/19/2015
Radium-228	0.860	0.0490		pCi/g	± 0.170	1	6/19/2015

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 150
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: Spirit Farms/John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acre

Source of biosolids

1 Lasma-Lagoon 28
2 DuPage
3 Hasma
4 Lasma-Lagoon 29
5 Lasma-Lagoon 30
6 Egan
7 Lasma-Marathon
8 North Shore Sanitary District
9 Glenbard
10 Fox River Water Reclamation
11 Sheridan
12 Joliet West
13 Joliet East
14 Princeton
15 Marseilles
16 St. Charles
17 Wheaton
18 Huntley West
19 Bensenville
20 Geneva
21 Lasma cell 3
22 Aurora Lime
24 Huntley East
25 Hinckley
26 Plainfield
27 Naperville-Pile 2
28 Naperville-Pile 3
29 Quality Liquid Feeds

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**May 2010**	0.050	4.3600	6.590	0.460	1.190	9.350	0.12	0.01	0.09	0.16					4199.55	881.91
2	**May 2011**	0.010	6.570	3.840	0.180	0.330	6.990	0.04	0.01	0.08	0.11				1600		213.27
3	**May-11**	0.020	5.740	5.210	0.510	0.380	7.320	0.08	0.01	0.07	0.06					2269.21	462.92
4	**May-11**	0.01	1.16	1.30	0.11	0.25	2.11	0.12	0.00	0.02	0.03					619.78	146.89
5	**March2012**	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4486.99	1202.51
6	**October 2012**	0	0.58	0.54	0.05	0.03	0.72	0.01	0	0	0.01					67.71	16.79
5	**October 2012**	0.01	1.05	1.09	0.09	0.24	1.93	0.02	0	0.01	0.02					929.68	209.18
6	**Nov. 2012**	0	0.53	0.44	0.04	0.02	0.63	0.01	0	0	0.01					206.22	44.73
5	**December 2012**	0	0.6	0.62	0.05	0.14	1.1	0.01	0	0.01	0.01					525.99	118.35
7	**December 2012**	0.04	3.74	4.26	0.38	1.16	7.53	0.07	0.01	0.05	0.09					1565.85	735.95
3	**December 2012**	0	0.53	0.45	0.05	0.03	0.63	0.01	0	0	0.01					166.67	36.31739
2	**March 2013**	0	0.49	0.22	0.01	0.03	0.53	0	0	0	0.01				175		22.43483
2	**January 2014**	0	0.47	0.14	0.01	0.02	0.56	0	0	0	0.01				250		30.6489
8	**January 2014**	0.01	14.97	28.77	0.67	0.88	19.8	0.42	0.02	0	0					129.15	122.6925
2	**Febuary 2014**	0	0.92	0.27	0.02	0.05	1.1	0	0	0.01	0.01				725		73.56
2	**March 2014**	0	0.66	0.35	0.02	0.03	0.78	0	0	0	0.01				450		59.26
9	**Nov 2014**	0.01	4.45	1.35	0.1	0.18	5.11	0.0182	0.001	0.01	0				56		7.89
10	**Jan-15**	0.02	3.16	1.83	0.14	0.11	2.74	0.01	0.00	0.02	0.08	0.0085				120.11	15.73
9	**Feb-15**	0.00	0.38	0.09	0.01	0.01	0.12	0.00	0.00	0.00	0.00						
10	**Feb-15**	0.00	0.26	0.11	0.01	0.01	0.23	0.00	0.00	0.00	0.01	0.0004				293.82	35.55
14	**Feb-15**	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03				378		87.43
10	**Mar-15**	0.00	0.32	0.10	0.02	0.01	0.27	0.00	0.00	0.00	0.01						
9	**March 2015**	0	0.33	0.07	0.01	0.01	0.35	0.001	0.001	0	0					360.00	83.27
11	**Mar-15**	0.00	2.51	2.21	0.09	0.08	2.50	0.00	0.00	0.06	0.04						
10	**Apr-15**	0.02	2.51	0.78	0.13	0.08	2.05	0.01	0.00	0.02	0.05						
12	**Apr-15**	0.00	0.77	3.24	0.01	0.01	0.33	0.00	0.00	0.00	0.01						
13	**May-15**	1.00	5.18	18.68	0.44	0.26	1.06	1.00	0.01	0.01	0.04						
14	Nov-15	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03	0.002				629.48	104.49
10	Jan-16	0.01	0.98	0.78	0.05	0.03	0.82	0.00	0.00	0.01	0.02	0.001			162		44.7
11	Jan-16	0.28	0.18	0.13	0.01	0.01	0.18	0.00	0.00	0.01	0.00	0.013			281		128.83
15	Jan-16	0.00	0.92	4.99	0.04	0.09	1.03	0.01	0.00	0.02	0.01	0.004			75		15.13
16	Feb-16	0.00	0.07	0.34	0.01	0.00	0.11	0.00	0.00	0.00	0.00	0.029					
10	Apr-16	0.00	0.24	0.20	0.01	0.01	0.20	0.00	0.00	0.00	0.00	0.000				167.21	26.92
17	Apr-16	0.00	0.42	0.31	0.02	0.02	0.60	0.00	0.00	0.00	0.00				134		31.4
18	Apr-16	0.00	0.86	0.16	0.01	0.01	0.38	0.01	0.00	0.01	0.01	0.017			574		82.85
9	Apr-16	0.00	0.45	0.11	0.01	0.02	0.41	0.00	0.00	0.01	0.00				400		54.68
19	Apr-16	0.00	0.55	0.30	0.02	0.05	0.39	0.00	0.00	0.00	0.01				406		87.9
13	Jun-16	0.00	1.40	6.97	0.08	0.06	0.42	0.00	0.00	0.01	0.02	0.010			1120		133.12
20	Jun-16	0.00	0.43	0.67	0.02	0.02	0.84	0.01	0.00	0.01	0.01	0.009			552		95.04
2	Mar-17	0.00	0.44	0.42	0.01	0.02	0.57	0.00	0.00	0.00	0.01				250		32.05
2	Apr-17	0.00	2.51	2.37	0.07	0.10	3.06	0.02	0.00	0.02	0.04				1825		240.16
2	May-17	0.00	2.10	1.98	0.06	0.08	2.56	0.02	0.00	0.02	0.03				1450		190.81
2	Jun-17	0.00	1.01	1.07	0.05	0.04	1.21	0.01	0.00	0.01	0.02				750		103.79
21	Jun-18	0.06	6.48	6.28	0.64	1.33	12.41	0.15	0.01	0.07	0.17					2520.44	1076.23
22	Jun-18	0.01	0.037	0.49	0.032	0.006	0.094	0.00	0.00	0.00	0.00	0.007	5.5 pci/g			1035.86	382.3
18	Jul-18	0.01	0.900	0.16	0.010	0.010	0.430	0.01	0.00	0.01	0.01	0.010			554		56.44
24	Jul-18	0.00	0.210	0.06	0.280	0.270	0.000	0.32	0.02	0.00	0.00	0.010			100		11.04
11	Apr-19	0.00	0.080	0.07	0.000	0.000	0.080	0.00	0.00	0.00	0.00	0.003			125		28.76
25	Apr-19	0.00	0.140	0.01	0.000	0.000	0.060	0.00	0.00	0.00	0.00	0.000			106		10.44
22	Apr-19	0.00	0.020	0.35	0.019	0.002	0.048	0.00	0.00	0.00	0.00	0.007	7 pci/g		520.3		288.25
26	May-19	0.01	2.220	1.37	0.100	0.040	3.260	0.01	0.00	0.04	0.07				4287		545.95
26	Dec-19	0.07	0.320	0.21	0.020	0.010	0.400	0.00	0.00	0.01	0.01				800		109.28
2	Jan-20	0.00	1.130	0.66	0.060	0.060	1.500	0.01	0.00	0.01	0.02				875		115.15
2	Feb-20	0.00	1.340	0.95	0.040	0.050	1.830	0.02	0.00	0.02	0.03				1100		143.82
2	Mar-20	0.00	0.760	0.54	0.020	0.030	1.030	0.01	0.00	0.01	0.02				550		71.91
2	Apr-20	0.00	1.510	1.03	0.040	0.050	1.990	0.02	0.00	0.02	0.03				1150		150.36
27	Mar-21	0.02	2.670	1.44	0.080	0.050	3.880	0.04	0.01	0.04	0.04				3217		516.2
28	Mar-21	0.00	1.380	0.70	0.040	0.020	1.800	0.01	0.00	0.01	0.00				1441		222.66
2	Apr-21	0.00	0.110	0.06	0.000	0.000	0.140	0.00	0.00	0.00	0.00				75		9.3
1	Jul-21	0.01	1.390	1.60	0.140	0.190	2.360	0.04	0.00	0.03	0.05					1296.66	254.15
7	Sep-21	0.04	6.120	6.66	0.590	1.380	11.940	0.15	0.01	0.15	0.21					3298.81	1098.5
22	Sep-21	0.00	0.006	0.15	0.005	0.001	0.014	0.00	0.00	0.00	0.00	0.001				231.58	73.87
2	Jul-22	0.00	1.570	1.12	0.090	0.060	1.930	0.02	0.00	0.02	0.03				1200		170.14
1	Jul-22	0.03	2.850	3.27	0.290	0.500	5.130	0.08	0.00	0.08	0.11					2852.08	590.38
22	Jul-22	0.002	0.032	0.356	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006				808.36	332.69
29	Jul-22	0.000	0.000	0.000	0.000	0.000	0.490	0.000	0.000	0.000	0.000			120761		808.36	332.69
20	Sep-22	0.002	0.380	0.150	0.020	0.010	0.700	0.000	0.000	0.000	0.010	0.003			280		51.85
1	Sep-22	0.020	1.400	1.540	0.130	0.270	2.770	0.020	0.000	0.030	0.050					1089.59	240.8
1	Apr-23	0.050	4.260	4.770	0.420	0.820	8.300	0.100	0.000	0.100	0.110					3460.25	757.79
22	Jul-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			355.47	144.9
	TOTAL	1.904	119.029	440.490	7.868	13.192	165.085	3.198	0.150	1.341	2.265	0.1447					
	%of LIMIT	19	47.6	48.9	7.9	1.3	33	3.2	0	16.8	14.1	0.000	pci/g				

1	Background Radium	1.560	pci/g
2	Site Limit	2.560	pci/g
3	Cumulative total to Date	1.70	%
4	% of Total Cumulative Limit	66.58	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL894070

◉ CWS ○ POTW ◉ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Next Page
Section Number	20	Township *(Number and Direction)*	T35N
Tillable Acres	134	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Moe 8	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.68	+ / -	0	Radium-228	0.91	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/18,7/19,7/20- 2023	343.60	2.56	134	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

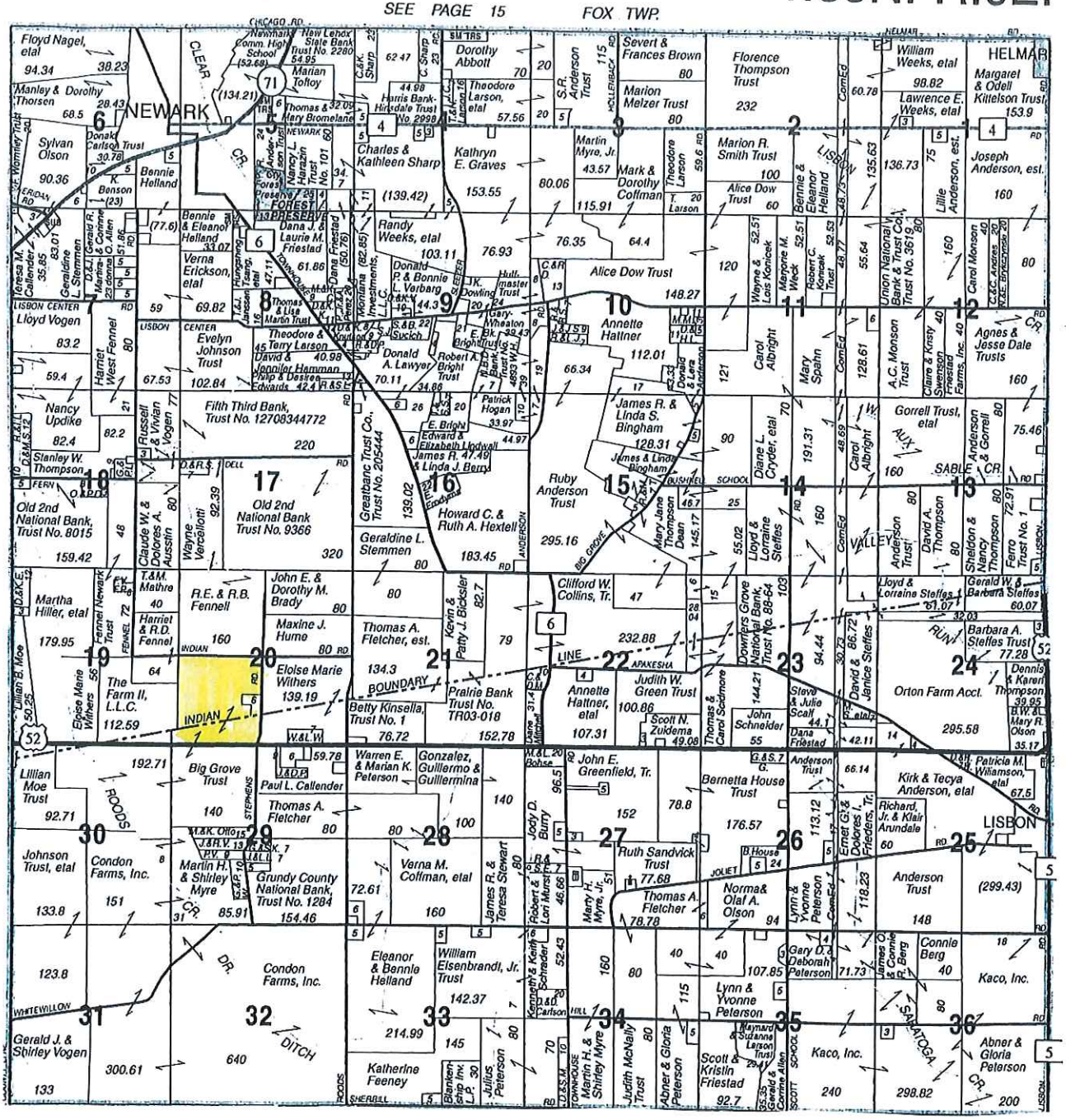
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

BIG GROVE

T.35N.-R.6E.


SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON CENTER
FOREST PRESERVE
Floyd Nagel, etal
Manley & Dorothy Thorsen
Sylvan Olson
Bennie Helland
Verna Erickson, etal
Lloyd Vogen
Harriet West Fennel
Nancy Updike
Stanley W. Thompson
Old 2nd National Bank, Trust No. 8015
Martha Hiller, etal
Fennel Newark Trust
The Farm II, L.L.C.
Lillian B. Moe
Elsie Marie Withers
Lillian Moe Trust
Johnson Trust, etal
Condon Farms, Inc.
Gerald J. & Shirley Vogen
Big Grove Trust
Martin H. & Shirley Myre
Grundy County National Bank, Trust No. 1284
Paul L. Callender
Thomas A. Fletcher
Warren E. & Marian K. Peterson
Gonzalez, Guillermo & Guillermina
Verna M. Coffman, etal
James R. & Teresa Stewart
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Katherine Feeney
Julius Peterson
Abner & Gloria Peterson
Scott & Kristin Friestad
Kaco, Inc.
Connie Berg
Gary D. & Deborah Peterson
Lynn & Yvonne Peterson
Norma & Olaf A. Olson
Bernetta House Trust
Ruth Sandvick Trust
Thomas A. Fletcher
John E. Greenfield, Tr.
Judith W. Green Trust
Annette Hattner, etal
Clifford W. Collins, Tr.
Ruby Anderson Trust
Annette Hattner
Howard C. & Ruth A. Hextell
Geraldine L. Stemmen
Greatbanc Trust Co., Trust No. 205444
Fifth Third Bank, Trust No. 12708344772
Old 2nd National Bank Trust No. 9366
Wayne Vercelloti
Claude W. & Dolores A. Ausstin
Russell & Vivian Vogen
Evelyn Johnson Trust
Verna Erickson, etal
Bennie & Eleanor Helland
Randy Weeks, etal
Donald P. & Bonnie L. Varberg
Kathryn E. Graves
Charles & Kathleen Sharp
Harris Bank-Hinsdale Trust No. 2998
Theodore Larson, etal
Dorothy Abbott
Marian Tofoy
Newark Comm. High School
New Lenox State Bank Trust No. 2280
Donald Carlson Trust
Nancy L. Hansen Trust No. 101
Dana J. & Laurie M. Friestad
Dana Friested
Thomas & Lisa Martin Trust
Theodore & 45 Terry Larson
David & Jennifer Hamman
Philip & Desiree Edwards
Donald A. Lawyer Trust
Robert A. Bright Trust
Patrick Hogan
Edward & Elizabeth Lodwall
James R. 47.49 & Linda J. Berry
Gary Wheaton Bk. Trust
Huh master Trust
Alice Dow Trust
Annette Hattner
James R. & Linda S. Bingham
Diane L. Cryder, etal
Carol Albright
Mary Spahn
Mary Jane Thompson Dean
Lloyd & Lorraine Steffes
Downers Grove National Bank, Trust No. 88-84
Steve & Julie Scalf
John Schneider
Dana Friestad
Barbara A. Steffes Trust
Orton Farm Acct.
Dennis & Karen Thompson
B.W. & Mary R. Olson
Kirk & Tecya Anderson, etal
Richard, Jr. & Klair Arundale
Anderson Trust
(299.43)
Kaco, Inc.
Abner & Gloria Peterson
Judith McNally Trust
Martin H. & Shirley Myre
Katherine Feeney
Julius Peterson
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Verna M. Coffman, etal
Gundy County National Bank, Trust No. 1284
Condon Farms, Inc.
Big Grove Trust
Thomas A. Fletcher
Eloise Marie Withers
Maxine J. Humo
R.E. & R.B. Fennell
John E. & Dorothy M. Brady
Thomas A. Fletcher, est.
Kevin & Patty J. Bicksler
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
Annette Hattner, etal
Judith W. Green Trust
Scott N. Zuidema
Thomas & Carol Sodmore
Ruth Sandvick Trust
Thomas A. Fletcher
Norma & Olaf A. Olson
Bernetta House Trust
John E. Greenfield, Tr.
Jody D. Burry
Robert & Lori Murset
Mary H. Myre, Jr.
Kenneth & Keith Schraeder
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Julius Peterson
Blankenship Inv. L.P.
Katherine Feeney
Abner & Gloria Peterson
Judith McNally Trust
Martin H. & Shirley Myre

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

SOIL SERIES	TEXTURE	% SLOPE
Lisbon, 59A	SiL	0-2%
La Rose, 60B2	SiL	2-5%
La Rose, 60C2	SiL	5-10%
La Rose, 60C3	CL	5-10%
Saybrook, 145B	SiL	2-5%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Peotone, 330A	SiCL	0-2%
Elpaso, 356A	SiCL	0-2%



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Monday, November 06, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Moe Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230296-7 is in Table 1. Stewart Spreading identified the samples as KE Moe 8 (Soil) and KE Moe 9 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs	
	G230296	G230297
	KE Moe 8 (Soil)	KE Moe 9 (Soil)
Ac-228	0.91	1.21
Ra-228[1]	0.91	1.21
Pb-214	0.69	1.13
Bi-214	0.67	1.40
Ra-226[2]	0.68	1.26
Total Radium[3]	1.59	2.47

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 134
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 20

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Source of biosolids
1 LASMA - Lagoon #27
2 LASMA - Lagoon # 30
3 LASMA - Lagoon #28
4 DuPage
5 LASMA-Lagoon 29
6 LASMA Cell 4 and 5
7 Lasma Cell 1
8 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	Dec. 2011	0.02	2.56	3.35	0.24	0.72	4.98	0.06	0.01	0.03	0.05					1367.76	440.42	
2	Mar. 2012	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4249.86	1138.96	
2	October 2012	0.02	2.55	2.65	0.23	0.59	4.69	0.05	0.01	0.03	0.06					1962.82	441.63	
3	October 2012	0.02	1.87	2.13	0.19	0.5	3.67	0.03	0	0.03	0.04					1400.37	365.5	
4	July 2013	0.02	9.79	5.89	0.38	0.46	10.93	0.06	0.02	0.09	0.16					1400 cy.	195.05	Wheat (31 acres)
3	Aug-16	0.03	2.87	2.88	0.27	0.54	5.02	0.03	0	0.03	0.13					2006.15	441.35	
5	Nov-16	0.02	2.12	1.58	0.21	0.48	4.35	0.03	0.01	0.03	0.16					1595.98	341.54	
6	Aug-17	0.06	5.29	5.99	0.53	1.4	10.99	0.1	0.01	0.06	0.08					1959.99	784.00	
5	18-Aug	0.03	3.18	3.63	0.35	0.73	6.54	0.08	0.01	0.08	0.11					2205.19	545.78	
7	Jul-19	0.08	6.75	6.15	0.81	0.34	7.43	0.08	0.01	0.06	0.1					2419.97	784.07	
3	Jul-22	0.03	2.85	3.27	0.29	0.5	5.13	0.08	0	0.08	0.11					2460.99	509.42	
3	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					2245.53	750.01	
8	Jul-23	0.003	0.038	0.417	0.018	0.003	0.062	0.000	0.000	0.000	0.000	0.007	5.38 pci/g			911.87	343.6	
	TOTAL	0.45	51.65	346.47	4.72	9.18	87.73	0.87	0.11	0.71	1.45	0.0070						
	%of LIMIT	4.5	20.7	38.5	4.7	0.9	17.5	0.9	0.1	8.9	9							

Background Radium	1.590	pci/g
Site Limit	3.000	pci/g
Cumulative total to Date	1.597	pci/g
% of Total Cumulative Limit	53.23	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-04-400-001,06-04-400-002
Section Number	4	Township *(Number and Direction)*	T36N
Tillable Acres	162.36	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Stewart 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.93	+ / -	0.26	Radium-228	0.52	+ / -	0.61

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/22/23	323.95	1.99	162.36	2.90	2.48

5. I certify the information provided above is accurate,

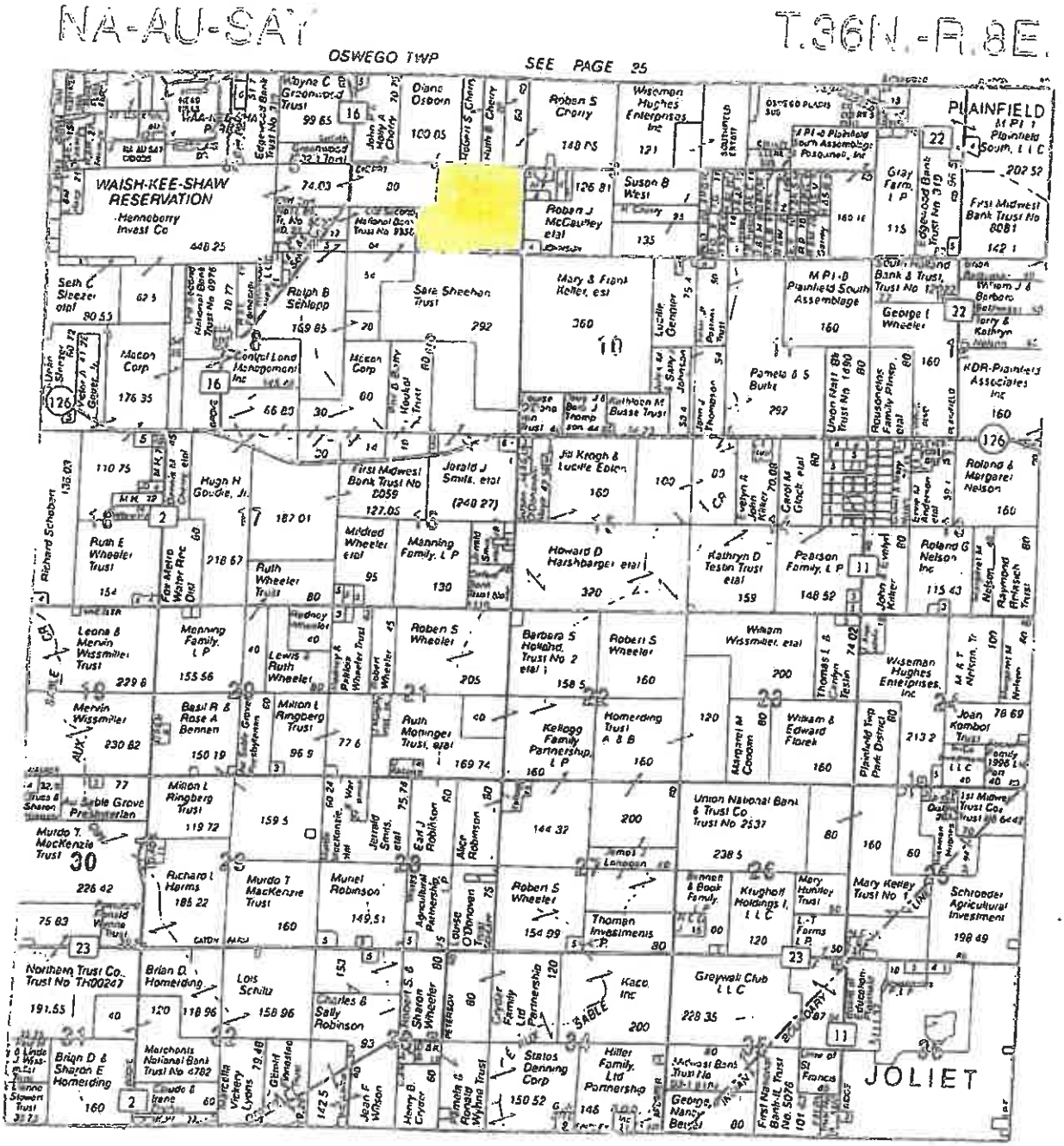
Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 2
162.36 acres
Kendall County
Na-Au-Say Township
Section 4



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 2
162.36 acres
Kendall County
Na-Au-Say Township
Section 4

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Lisbon 59A	SiL	0-2%	0.6-2.0 in/hr
Saybrook 145 B	SiCL	1-3%	0.6-2.0 in/hr
Saybrook 145 B2	SiCL	2-5%	0.6-2.0 in/hr
Saybrook 145C2	SiCL	5-10%	0.6-2.0 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

January 18, 2013

Client: Stewart Spreading, Inc
Address: 3870 N. Route 71
Sheridan, IL 60551

Received: 1/8/2013
Project #: N/A

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 2 Redo	1300362-05	03-Jan-13	Radium-226	0.93 +/- 0.26	pci/g	S	9315	1	0.4	14-Jan-13	CM

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 2 Redo	1300362-05	03-Jan-13	Radium-228	0.52 +/- 0.61	pci/g	S	9320	1	0.4	14-Jan-13	CM

"Analytical Integrity" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 • Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.settek.com

METAL LOADING RECORD

SITE NUMBER: KE Stewart 2
ACREAGE: 162.36
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 4

FARMER: John Stewart
ADDRESS: 3870 N. Route 71
Sheridan, IL 60551
815-695-5667

Source of biosolids
1 LASMA - Lagoon #28
2 LASMA - Lagoon #29
3 LASMA - Lagoon #26
4 Plainfield
5 Barrington
6 LASMA - Lagoon #30
7 Aurora - Lime
8 LASMA-Marathon
9 Naperville

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Dec.2008	0.07	7.17	9.23	0.79	2.18	15.03	0.23	0.02	0.47	0.25						
2	Dec.2008	0	0.32	0.5	0.03	0.12	0.7	0	0	0	0.01						
1	Apr.2010	0.06	5.42	8.19	0.57	1.48	11.62	0.15	0.01	0.12	0.2						
3	Oct.2010	0.04	5.77	8.16	0.5	1.44	13.16	0.14	0.01	0.11	0.18						
4	Dec. 2011	0	1.7	1.18	0.08	0.07	2.27	0	0.003	0	0.03						
5	Mar. 2011	0	1.44	0.63	0.01	0.04	0.56	0.03	0	0.03	0						
4	Mar. 2011	0.002	0.87	0.59	0.04	0	1.1	0	0.001	0	0.02						
6	Oct. 2012	0.03	4.21	4.35	0.37	0.97	7.71	0.07	0.01	0.05	0.1					4217.6	948.96
7	11/15/2012	0.000	0.032	0.876	0.034	0.009	0.217	0.000	0.000	0.000	0.000	0.0130				1327.35	418.19
8	6/1/2016	0.080	6.350	7.650	0.630	1.650	13.480	0.110	0.000	0.085	0.190					5516.15	1252.17
1	11/1/2016	0.060	6.830	5.470	0.760	1.980	14.570	0.100	0.010	0.080	0.160					6132.47	1453.40
9	Dec.2017	0.010	5.160	2.900	0.170	0.130	8.250	0.050	0.010	0.050	0.080						848.66
7	Dec.2017	0.008	0.028	0.368	0.024	0.005	0.071	0.000	0.000	0.000	0.000	0.0050	5.5 pci/g			817.06	339.26
1	19-Sep	0.030	4.810	6.910	0.510	0.960	9.780	0.180	0.010	0.060	0.040					3212.86	1028.11
8	19-Sep	0.080	6.400	7.190	0.620	1.500	12.550	0.140	0.010	0.070	0.170					2919.79	1176.79
1	20-Sep	0.010	2.190	2.600	0.200	0.490	4.140	0.060	0.000	0.020	0.070					1496.54	417.53
6	20-Sep	0.060	7.290	8.000	0.210	1.640	13.990	0.180	0.010	0.080	0.210					4312.78	1319.71
7	20-Sep	0.012	0.046	0.934	0.043	0.012	0.112	0.000	0.000	0.000	0.000	0.0090	6.25 pci/g			1587.58	525.28
9	21-Aug	0.020	5.340	2.500	0.220	0.130	6.630	0.050	0.010	0.060	0.070				4452		733.27
4	21-Sep	0.014	1.070	0.620	0.060	0.020	1.460	0.020	0.001	0.020	0.030				2352		317.1
1	22-Sep	0.070	4.810	5.320	0.450	0.940	9.560	0.070	0.000	0.120	0.190					4875.92	1077.58
1	22-Oct	0.000	0.120	0.000	0.010	0.020	0.250	0.000	0.000	0.000	0.000					98.38	22.63
1	23-Jul	0.100	9.430	10.520	0.980	1.900	19.480	0.200	0.010	0.200	0.350					5003.1	1671.04
7	23-Jul	0.002	0.029	0.319	0.014	0.002	0.047	0.000	0.000	0.000	0.000	0.0050	5.38 pci/g			801.71	323.95
	TOTAL	0.76	86.84	95.01	7.33	17.69	166.74	1.78	0.13	1.63	2.35	0.032	pci/g				
	%of LIMIT	7.6	34.7	10.6	7.3	1.8	33.3	1.8	0.1	20.4	14.6						

1	Background Radium	1.450	pci/g
2	Site Limit	2.450	pci/g
3	Cumulative total to Date	1.482	pci/g
4	% of Total Cumulative Limit	60.49	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	10-24-300-005
Section Number	24	Township *(Number and Direction)*	T35N
Tillable Acres	29	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Penoyer 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.79	+/-	0	Radium-228	1.3	+/-	0

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IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/21/23	109.92	3.79	29	2.90	2.48

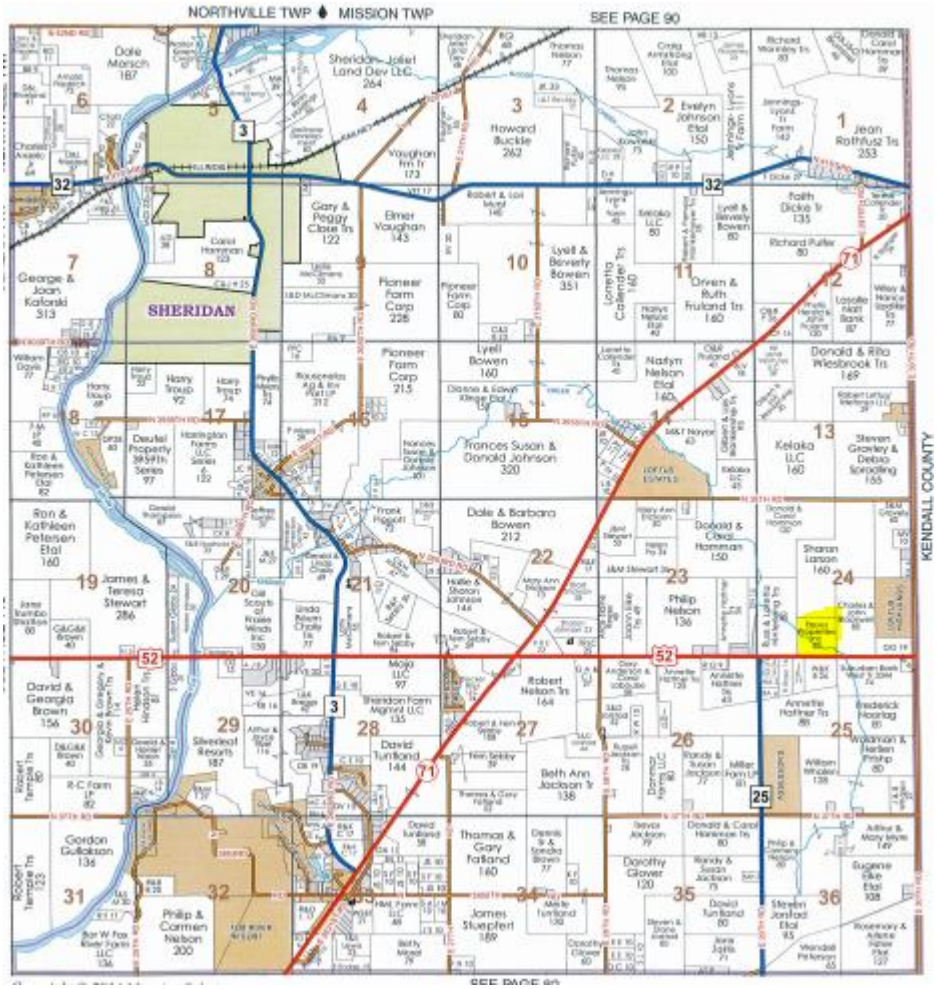
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 20, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

John Stewart

LS Penoyer 1
29 acrse
LaSalle County
Mission Township
Section 24



John Stewart
3870 N IL Rt 71
Sheridan, IL 60551
815-695-5667

LS Penoyer 1
29 acres
LaSalle County
Mission Township
Section 24

223B	Varna silt loam, 2 to 4 percent slopes	8.7	25.1%	0.06 to 0.20 in/hr
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	1.2	3.4%	0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	7.8	22.5%	0.06 to 0.20 in/hr
290B	Warsaw silt loam, 2 to 4 percent slopes	0.4	1.1%	0.60 to 2.00 in/hr
293A	Andres silt loam, 0 to 2 percent slopes	4.4	12.7%	0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.9	28.5%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	1.7	4.8%	0.06 to 0.20 in/hr
679B	Blackberry silt loam, 2 to 5 percent slopes	0.7	1.9%	0.60 to 2.00 in/hr



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name:

Report Date: February 09, 2022
Workorder: 2201062

Client Sample ID: LS Penoyer 1
Lab ID: 2201062-001

Date Received: 01/04/2022 10:16 AM

Matrix: SOIL
Collection Date: 10/08/2020 1:12 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226			Method: EPA-901.1-Rev 0			Analyst: DEB	
Radium-226	0.79	0.55	G	pCi/g	1	02/08/2022 12:00 AM	R144692
RADIUM-228			Method: EPA-901.1-Rev 0			Analyst: DEB	
Radium-228	1.3	0.16	G	pCi/g	1	02/08/2022 12:00 AM	R144692

Created: 2/9/2022 5:53:02 PM

METAL LOADING RECORD

SITE NUMBER: LS Penoyer 1
ACREAGE: 29
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Cell 3
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-21	0.03	5.57	6.49	0.63	1.02	9.52	0.17	0	0.13	0.2					940.44	189.97
2	Sep-21	0.050	6.590	7.180	0.630	1.490	12.860	0.160	0.010	0.160	0.220					683.77	227.7
3	Sep-21	0.003	0.015	0.384	0.013	0.003	0.035	0.000	0.000	0.000	0.000	0.002	3.57 pci/g			111.7	35.63
1	Sep-22	0.080	5.580	6.170	0.530	1.090	11.080	0.080	0.010	0.140	0.220					889.79	196.64
3	Jul-23	0.004	0.055	0.608	0.026	0.004	0.090	0.000	0.000	0.000	0.000	0.010	5.38 pci/g			301.14	109.92
	TOTAL	0.17	17.81	20.83	1.83	3.61	33.59	0.41	0.02	0.43	0.64	0.012	pci/g				
	%of LIMIT	1.7	7.1	2.3	1.8	0.4	6.7	0.4	0	5.4	4						

1	Background Radium	2.090	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.102	pci/g
4	% of Total Cumulative Limit	70.07	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Fern Dell 1

6.) Size of Area Where Lime is to be Used: 184 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1500 w.t.

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County,

6.) Size of Area Where Lime is to be Used: 81 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LS Bicksler 1

6.) Size of Area Where Lime is to be Used: 78.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 1100 wet tons

Years Applied 2021

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/13/23

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: LS Hamman 5

6.) Size of Area Where Lime Residuals are to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1800 wet tons

Years Applied 2019 and 2021 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, KE Moe 8

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator _____
Amount Applied _____
Years Applied _____

SPREADING

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Section 4 KE Stewart 2

6.) Size of Area Where Lime is to be Used: 162.36 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? (Yes) No (Circle One)
Name of Generator Aurora Lime
Amount Applied Approx 1500 wet tons
Years Applied 2020

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Mission Township, Section 24 LS Penoyer 1

6.) Size of Area Where Lime is to be Used: 29 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: see soil analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied 900 wet tons
Years Applied 2021

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	03-02-100-003,03-02-100-004
Section Number	2	Township *(Number and Direction)*	T36N
Tillable Acres	80	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Bill Mitchell 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.01	+ / -	0	Radium-228	1.34	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/11/23	406.39	5.1	80	2.90	2.48

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Nov 30, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge 295284
Sample ID: Sludge
Sample No: 22-5168-001

Date Collected: 07/14/22
Time Collected: 8:00
Date Received: 07/14/22
Date Reported: 08/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfide	**Method: 4500S2,C,D 2011**			
Analysis Date: 07/18/22				
Analyzed By: EMS				
Sulfide	< 10	10	mg/kg	L- N
Sulfur by ICP	**Method: 6010B**			
Analysis Date: 07/28/22				
Analyzed By: TEK				
Sulfur	813	5.0	mg/kg	N S
Cyanide, Total	**Method: 4500CN,E 2011**			
Analysis Date: 07/18/22				
Analyzed By: KEF				
Cyanide, Total	0.19	0.10	mg/kg	N
Radium 226 & 228	**Method: Ga-01-R**			
Analysis Date: 08/15/22				
Analyzed By: ATI				
Radium 226 >	5.38 < 2.90+/-0.10		pCi/g dry	N S
Radium 228	2.48+/-0.17		pCi/g dry	N S
Sulfate, Soluble	**Method: 9038**			
Analysis Date: 07/22/22				
Analyzed By: EMS				
Sulfate, Soluble	706	150	mg/kg	N

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **August 2023**

Biosolids Field Record

Site: LS Bill Mitchell 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/15/2023	8/11/2023	City of Aurora - Lime	231.24	49.53	114.53
6/22/2023	8/11/2023	City of Aurora - Lime	720.63	40.5	291.86
Total			951.87		406.39

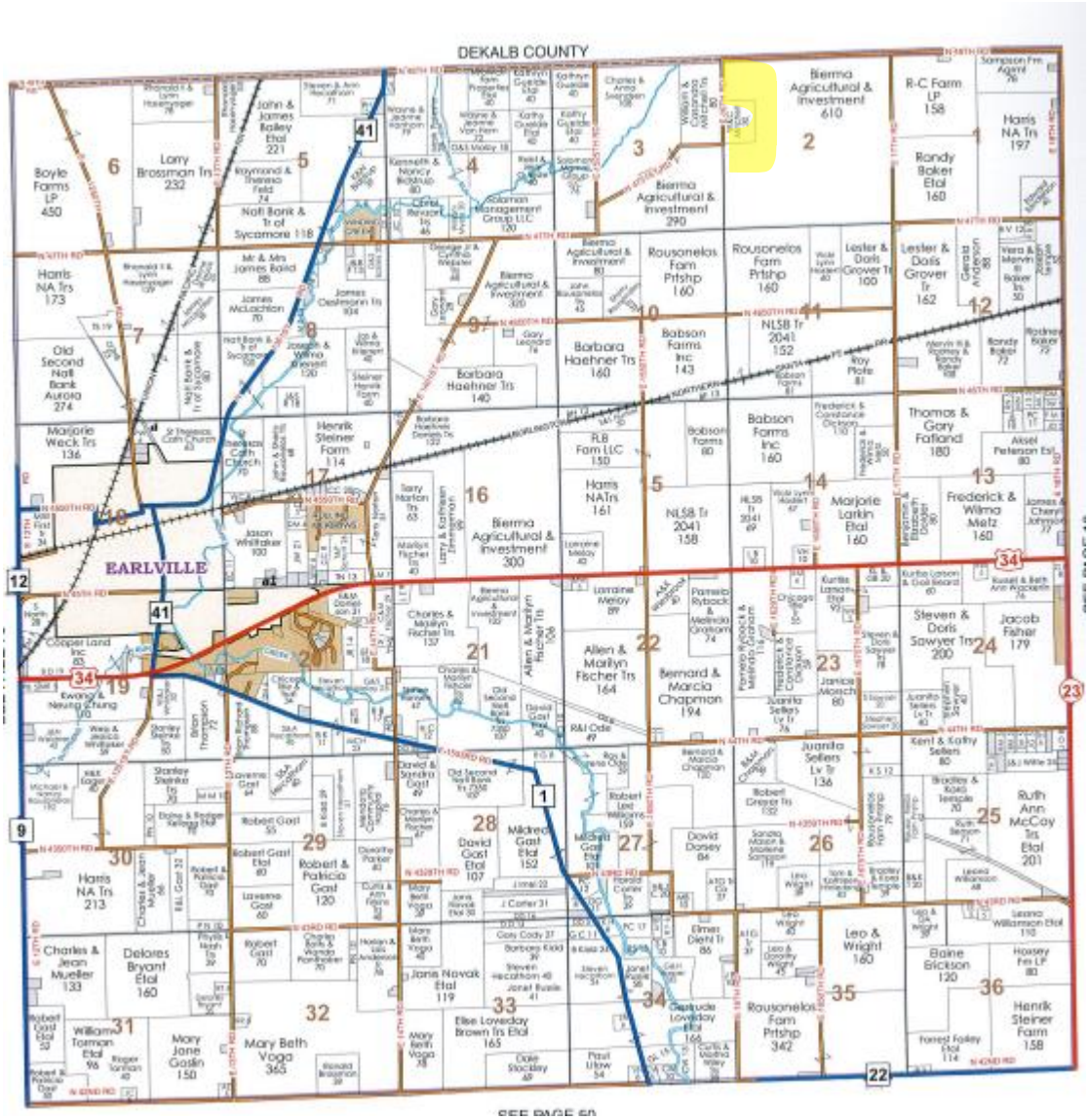
Biosolids Field Record

Site: LS Swenson 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/10/2023	8/24/2023	City of Aurora - Lime	26.42	36.5	9.64
7/10/2023	8/24/2023	City of Aurora - Lime	444.73	53.4	237.49
Total			471.15		247.13

Bill Mitchell

LS Bill Mitchell 2
80 acres
LaSalle County
Earl Township
Section 2



Bill Mitchell

LS Bill Mitchell 2
80 acres
LaSalle County
Earl Township
Section 2

67A	Harpster silty clay loam, 0 to 2 percent slopes	5.4	7.0%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.8	7.6%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	25.0	32.6%	0.60 to 2.00 in/hr
171B	Catlin silt loam, 2 to 5 percent slopes	12.1	15.8%	0.20 to 0.60 in/hr
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	7.9	10.4%	0.20 to 0.60 in/hr
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded	1.5	2.0%	0.20 to 0.60 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	0.0	0.0%	0.06 to 0.20 in/hr
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded	2.1	2.8%	0.20 to 0.60 in/hr
234A	Sunbury silt loam, 0 to 2 percent slopes	14.1	18.4%	0.20 to 0.60 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, August 23, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230231-2 is in Table 1. Stewart Spreading identified the samples as LS Mitchell 2 (Soil) and LS Roberts 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs	
	G230231	G230232
	LS Mitchell 2 (Soil)	LS Roberts 1 (Soil)
Ac-228	1.34	1.59
Ra-228[1]	1.34	1.59
Pb-214	1.05	0.93
Bi-214	0.98	1.06
Ra-226[2]	1.01	1.00
Total Radium[3]	2.36	2.58

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	LS Bill Mitchell 2	COUNTY:	LaSalle
ACREAGE:	80	TOWNSHIP:	Earl
		SECTION:	2
FARMER:	Bill Mitchell		
ADDRESS:	4762 E 16th Rd		
	815-739-1317		

Metal Loadings in Pounds per Acr

	Source of biosolids
1	Aurora Lime
2	
3	
4	
5	
6	

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	August-23	0.005	0.074	0.815	0.035	0.005	0.121	0	0	0	0	0.014	5.38 pci/g
	TOTAL	0.01	0.07	0.82	0.04	0.01	0.12	0	0	0	0	0.014	pci/g
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0		

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.374	pci/g
4	% of Total Cumulative Limit	79.13	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	01-05-400-000
Section Number	1	Township *(Number and Direction)*	T36N
Tillable Acres	154	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Swenson 8	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	.821	+ / -	0.130	Radium-228	1.80	+ / -	+0.310/-0.320

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/24/23	247.13	1.6	154	2.90	2.48

5. I certify the information provided above is accurate,

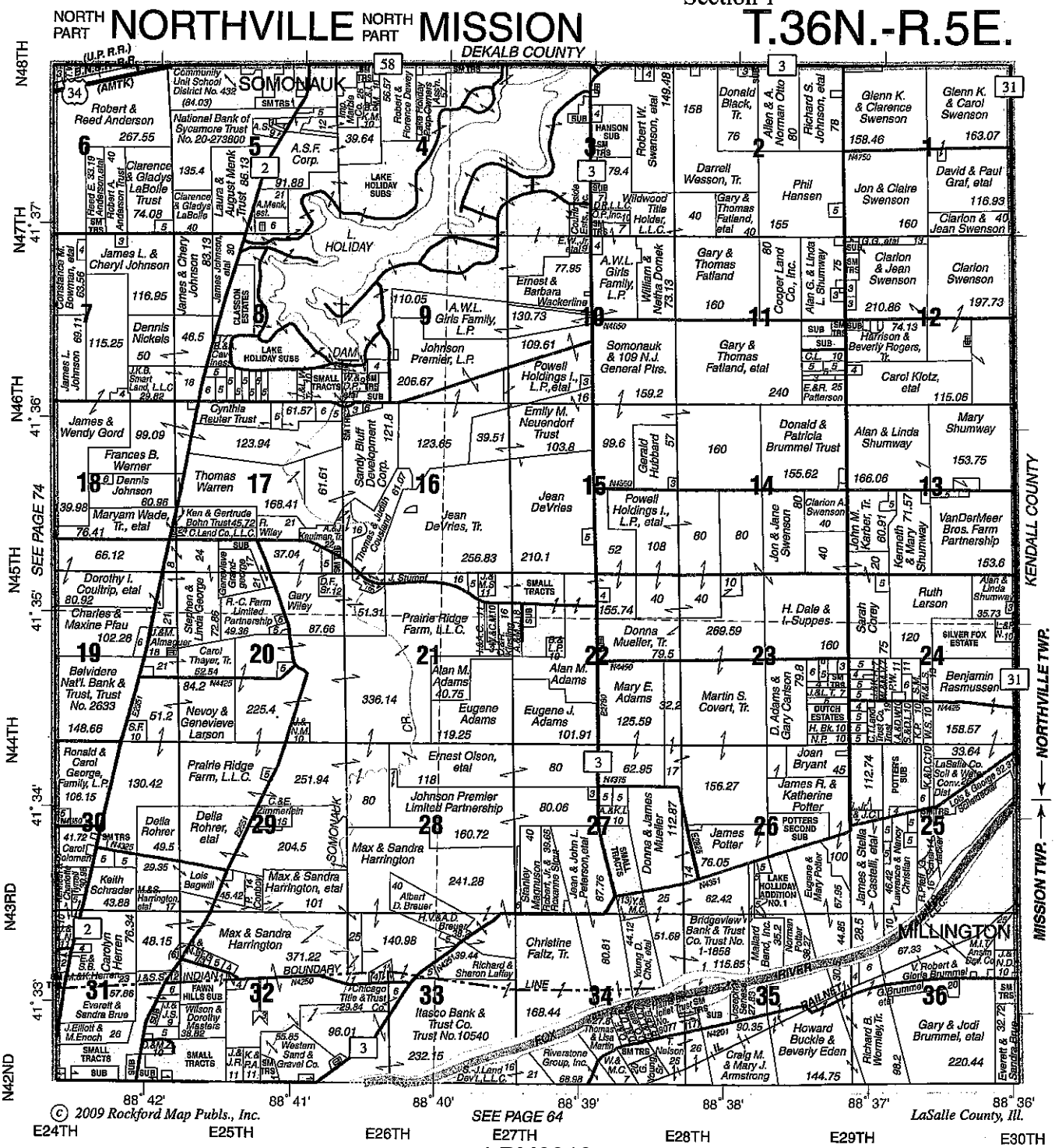
Signature: Billie M Marko Date: Nov 30, 2023 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1

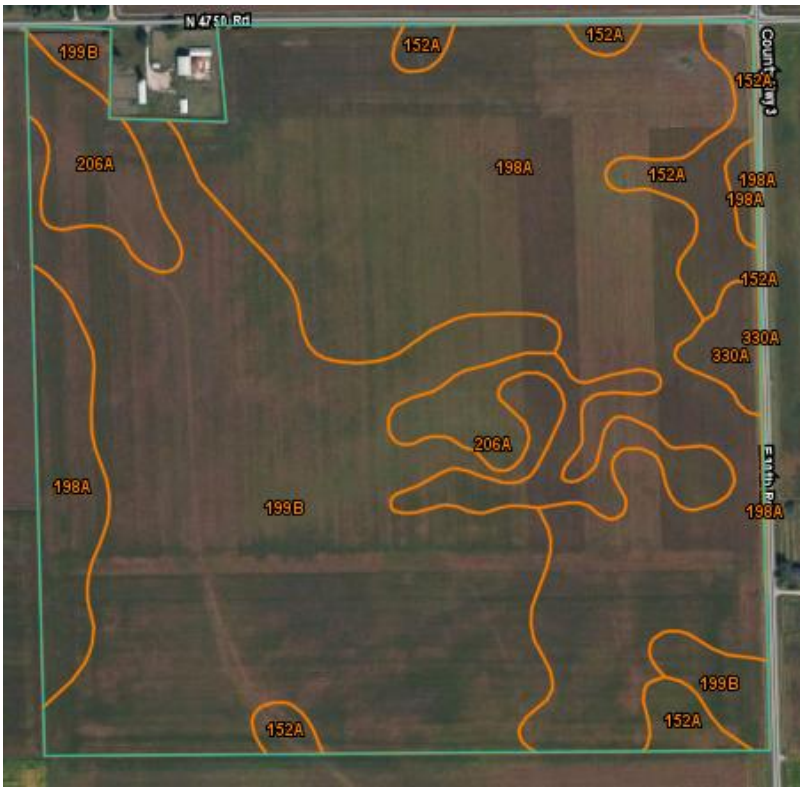


LRM0910

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **17050853**

Date Reported: **6/5/2017**

CLIENT: Stewart Spreading, Inc
Collection Date: 9/26/2012 9:00:00 AM
Project: Aurora
Lab ID: 17050853-001
Matrix: SOLID
Client Sample ID LS Swenson 8

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.821	0.0308		pCi/g-dry	± 0.130	1	6/5/2017 7:45:00 AM
Radium-228	1.80	0.0410		pCi/g-dry	+0.310 / -0.320	1	6/5/2017 7:45:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
	TOTAL	0.04	0.16	2.25	0.11	0.03	0.4	0	0	0	0	0.029	pci/g	
	%of LIMIT	0.4	0.1	0.3	0.1	0	0.1	0	0	0	0			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.650	pci/g
4	% of Total Cumulative Limit	88.33	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 10, 2023

2.) Name of User: Bill Mitchell

3.) Address of User: 4762 E 16th Road

4.) Phone Number of User: 815-739-1317

5.) Location Where Lime is to be Used: LaSalle County, Earl Township LS Bill Mitchell 2

6.) Size of Area Where Lime is to be Used: 80 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium in Organic Biosolids/Lime Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Organic Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Biosolids contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Organic Biosolids and/or Lime as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Organic Biosolids/Lime can be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

William Mitchell 5/10/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 12-18-18

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/15/22

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 940 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Claire Swenson 8/15/22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	01-05-400-000
Section Number	1	Township *(Number and Direction)*	T36N
Tillable Acres	154	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Swenson 8	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.821	+ / -	0.130	Radium-228	1.80	+ / -	+0.310/-0.320

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/31/23	399.05	2.59	154	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 31, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Oct-23**

Biosolids Field Record

LS Swenson 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/25/2023	10/31/2023	City of Aurora - Lime	592.96	32.24	191.17
9/26/2023	10/31/2023	City of Aurora - Lime	621.28	33.46	207.88
Total			1214.24		399.05

Biosolids Field Record

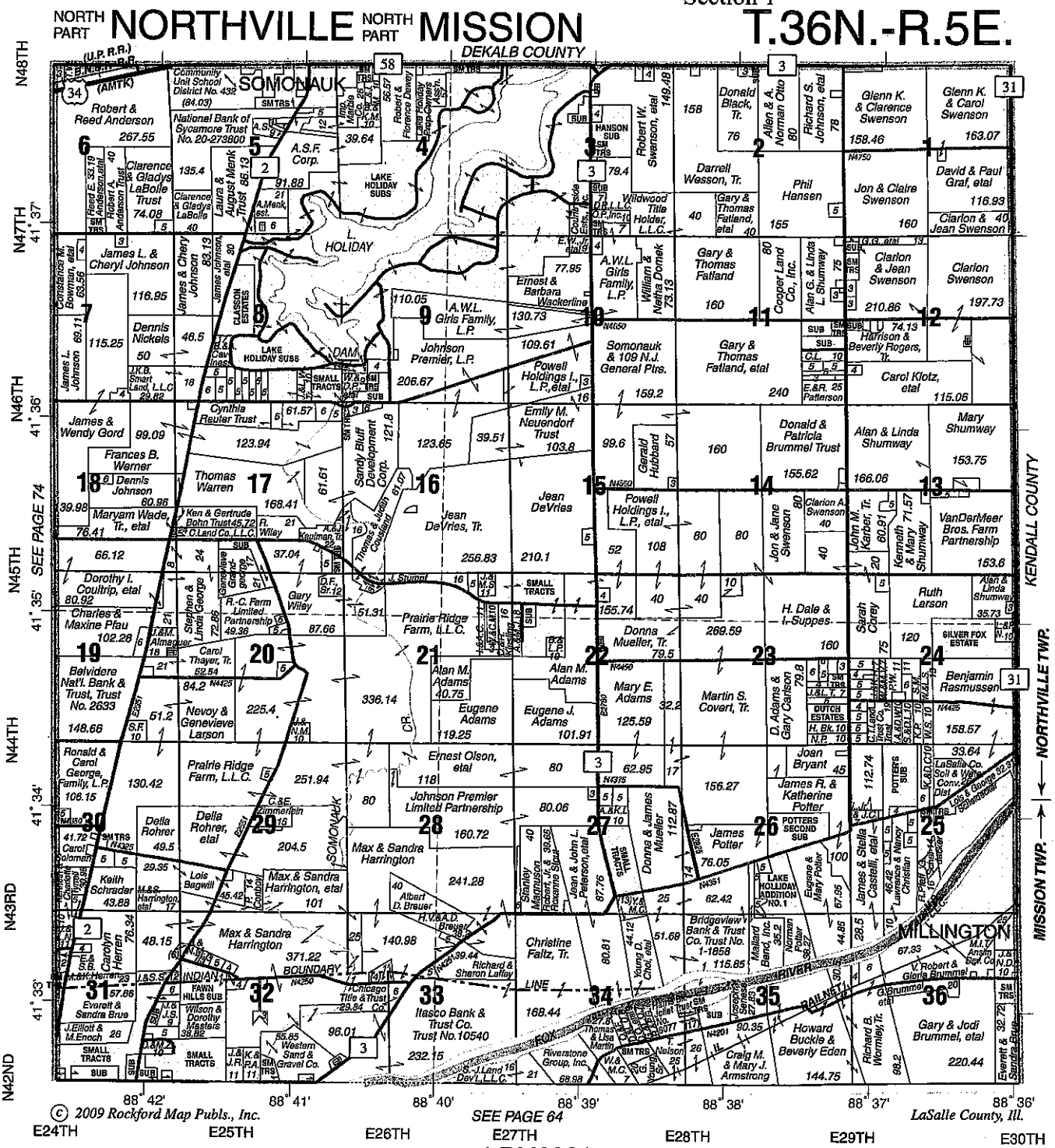
KE Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/2/2023	10/31/2023	City of Aurora - Lime	134.36	32.95	44.27
Total			134.36		44.27

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1



© 2009 Rockford Map Publs., Inc.

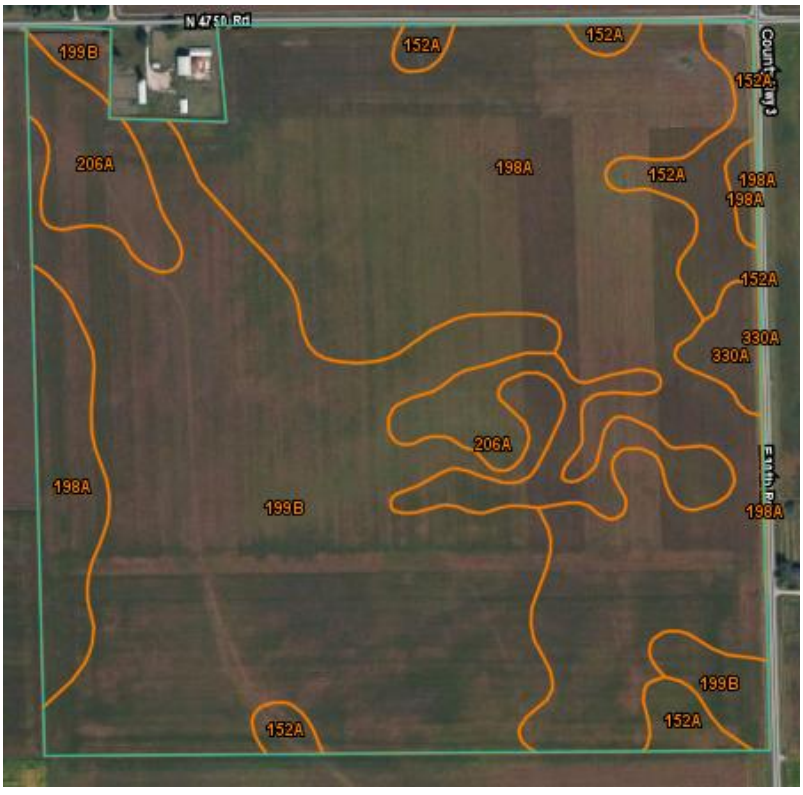
LaSalle County, Ill.

LRM0921

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **17050853**

Date Reported: **6/5/2017**

CLIENT: Stewart Spreading, Inc
Collection Date: 9/26/2012 9:00:00 AM
Project: Aurora
Lab ID: 17050853-001
Matrix: SOLID
Client Sample ID LS Swenson 8

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.821	0.0308		pCi/g-dry	± 0.130	1	6/5/2017 7:45:00 AM
Radium-228	1.80	0.0410		pCi/g-dry	+0.310 / -0.320	1	6/5/2017 7:45:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime
2 Glendale Heights
3 DuPage
4 Marseilles
5 Sandwich
6 Hinckley

Metal Loadings in Pounds per Acr

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
2	**Aug-23**	0	0.07	0.09	0.01	0	0.16	0	0	0	0			
3	**Aug-23**	0.01	1.49	0.92	0.05	0.06	2.09	0.01	0	0.01	0.03			
2	**Sep-23**	0	0.09	0.12	0	0	0.21	0	0	0	0			
2	**Oct-23**	0	0.11	0.13	0.01	0	0.23	0	0	0	0			
2	**Nov-23**	0	0.07	0.04	0.01	0.02	0.11	0	0	0	0			
4	**Nov-23**	0.02	0.34	4.79	0.06	0.04	0.36	0.04	0	0.06	0.02	0.040		
5	**Nov-23**	0	0.35	0.34	0.12	0.08	0.54	0.01	0	0	0.04	0.010		
6	**Nov-23**	0	0.24	0.02	0.01	0	0.12	0	0	0	0	0.020		
1	**Oct-23**	0.006	0.038	0.57	0.02	0.006	0.067	0	0	0	0	0.011	8.5 pci/g	
	TOTAL	0.07	2.96	9.27	0.40	0.24	4.29	0.06	0.00	0.07	0.09	0.110	pci/g	
	%of LIMIT	0.7	1.2	1	0.4	0	0.9	0.1	0	0.9	0.6			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.731	pci/g
4	% of Total Cumulative Limit	91.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Attached
Section Number	13	Township *(Number and Direction)*	T37N
Tillable Acres	282.35	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Lincolnway 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.5	+ / -	0	Radium-228	0.5	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/31/23	44.27	.16	282.35	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 31, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

KE Licolnway 1 PIN

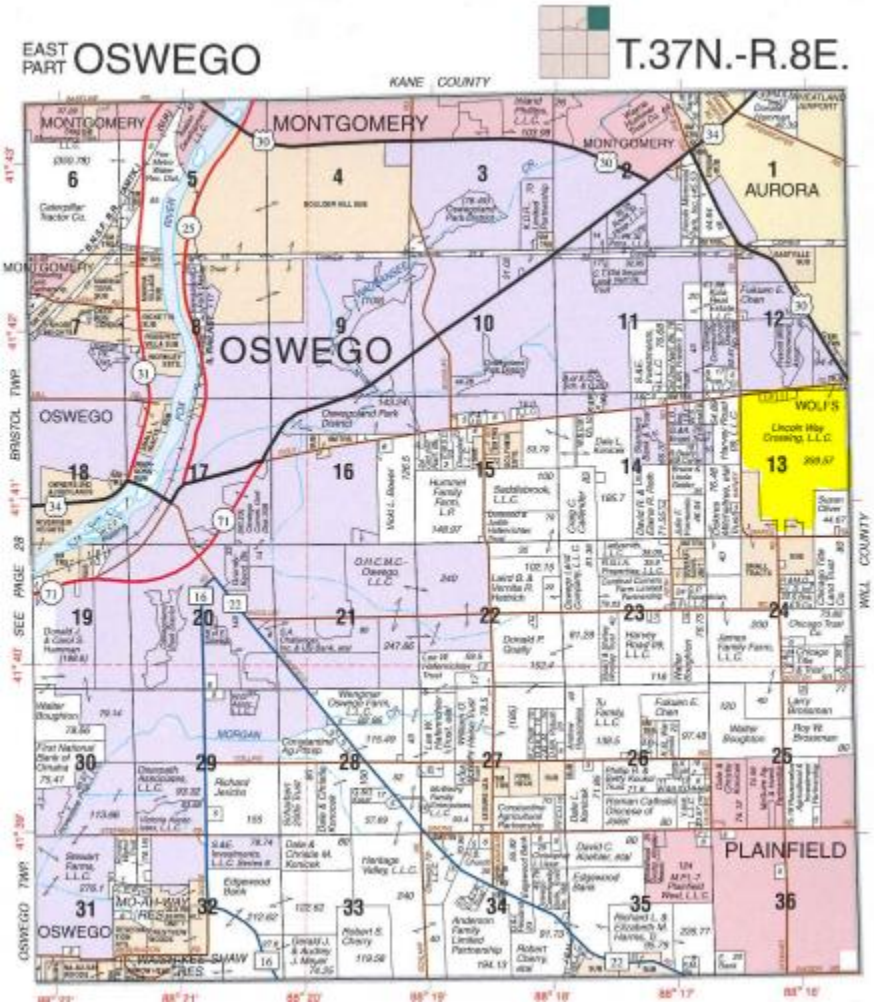
03-13-100-013
03-13-200-008

03-12-478-004
03-12-478-003
03-13-200-007
03-12-478-005
03-13-200-006
03-13-400-016
03-13-400-001

03-13-300-002

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



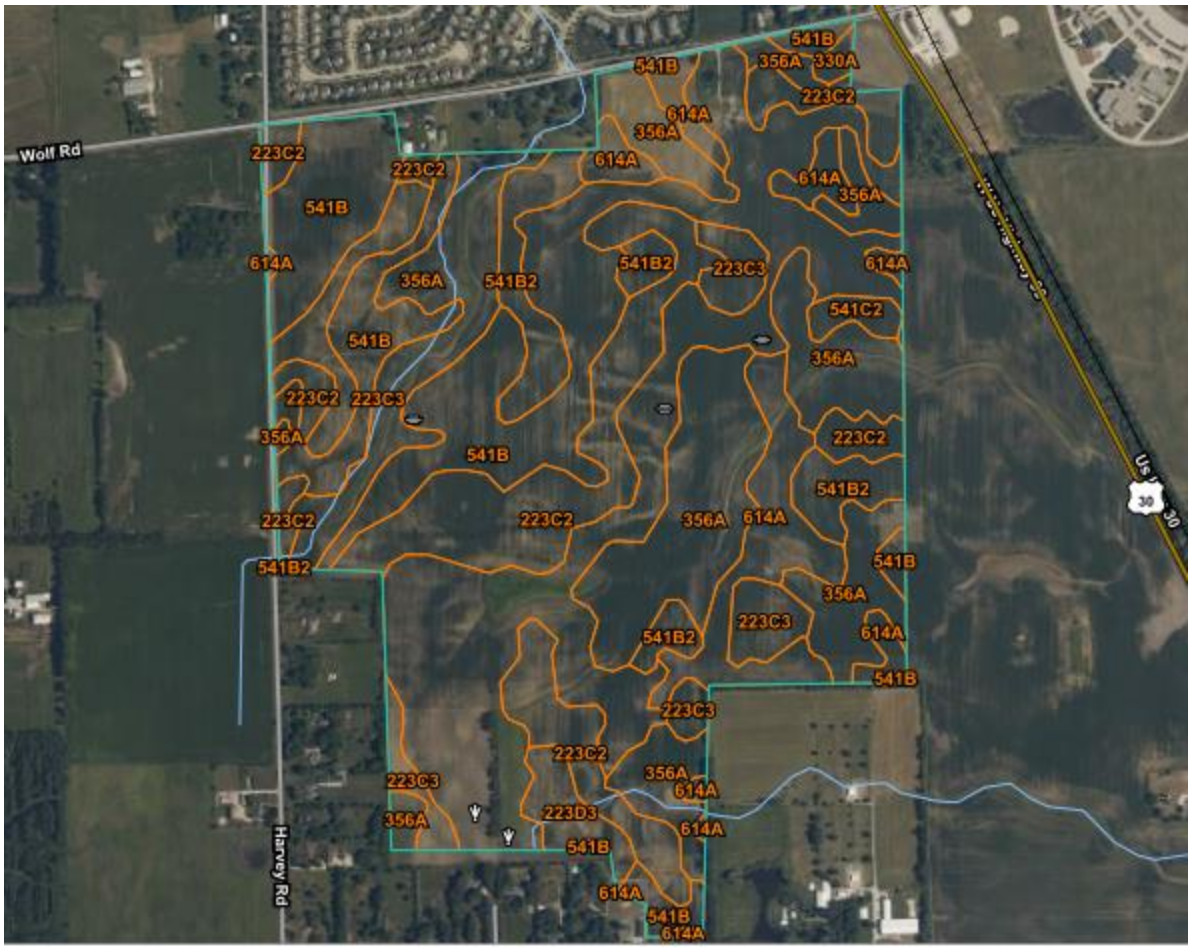
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: April 22, 2021
Workorder: **2103S05**

Client Sample ID: **KE_WL Lincolnway**
Lab ID: 2103S05-001 **Date Received:** 03/31/2021 12:14 PM

Matrix: SOIL
Collection Date: 03/30/2021 9:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: JH	
Radium-226	ND	0.50		pCi/g	1	04/19/2021 12:00 AM	73046
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: JH	
Radium-228	ND	0.50		pCi/g	1	04/14/2021 12:00 AM	72923

Created: 4/22/2021 11:47:12 AM

METAL LOADING RECORD

SITE NUMBER:	KE Lincolnway 1	COUNTY:	Kendall
ACREAGE:	282.35	TOWNSHIP:	Oswego
		SECTION:	13
FARMER:	John Stewart		
ADDRESS:	3870 N. Rt 71		
	Sheridan, IL 60551		
PHONE #:	815-695-5667		

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
	TOTAL	0.110	16.980	30.850	1.490	2.720	27.600	0.270	0.000	0.340	0.510	0.056	pci/g				
	%of LIMIT	1.1	6.8	3.4	1.5	0.3	5.5	0.3	0	4.3	3.2						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.056	pci/g
4	% of Total Cumulative Limit	52.80	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/15/22

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 940 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Claire Swenson 8/15/22

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 5800 wet tons

Years Applied 2021 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

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Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See next page
Section Number	13	Township *(Number and Direction)*	37N
Tillable Acres	282.35	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Lincolnway 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.5	+ / -	0	Radium-228	.05	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/3/23	336.13	1.19	282.35	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM0936

KE Licolnway 1 PIN

03-13-100-013
03-13-200-008

03-12-478-004
03-12-478-003
03-13-200-007
03-12-478-005
03-13-200-006
03-13-400-016
03-13-400-001

03-13-300-002

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Nov-23**

Biosolids Field Record

KE Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/29/2023	11/3/2023	City of Aurora - Lime	1004.58	33.46	336.13
Total			1004.58		336.13

Biosolids Field Record

KE Cryder 7-1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/2/2023	11/6/2023	City of Aurora - Lime	53.27	32.95	17.55
10/2/2023	11/6/2023	City of Aurora - Lime	750.50	34.56	259.37
10/3/2023	11/6/2023	City of Aurora - Lime	699.77	34.35	240.37
Total			1503.54		517.30

Biosolids Field Record

KE Cryder 7-2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/3/2023	11/6/2023	City of Aurora - Lime	191.53	34.35	65.79
Total			191.53		65.79

Biosolids Field Record

KA Kellogg 23

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/3/2023	11/3/2023	City of Aurora - Lime	186.52	34.35	64.07
10/4/2023	11/3/2023	City of Aurora - Lime	236.44	43.37	102.54
Total			422.96		166.61

Biosolids Field Record

KA Pitstick 155

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/4/2023	11/3/2023	City of Aurora - Lime	576.15	43.37	249.88
Total			576.15		249.88

Biosolids Field Record

KE Nichols 160

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/4/2023	11/2/2023	City of Aurora - Lime	405.20	43.37	175.74
10/9/2023	11/2/2023	City of Aurora - Lime	740.01	34.31	253.90
10/10/2023	11/2/2023	City of Aurora - Lime	452.35	37.64	170.26
Total			1597.56		599.90

Biosolids Field Record

LS Swenson 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/9/2023	11/1/2023	City of Aurora - Lime	604.92	34.31	207.55
10/10/2023	11/1/2023	City of Aurora - Lime	836.60	37.64	314.90
Total			1441.52		522.44

Biosolids Field Record

KE Friestad 25

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/10/2023	11/14/2023	City of Aurora - Lime	574.77	37.64	216.34
10/11/2023	11/14/2023	City of Aurora - Lime	222.73	39.09	87.07
Total			797.50		303.41

Biosolids Field Record

KA Lenkaitas 20

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/11/2023	11/4/2023	City of Aurora - Lime	217.56	39.09	85.04
Total			217.56		85.04

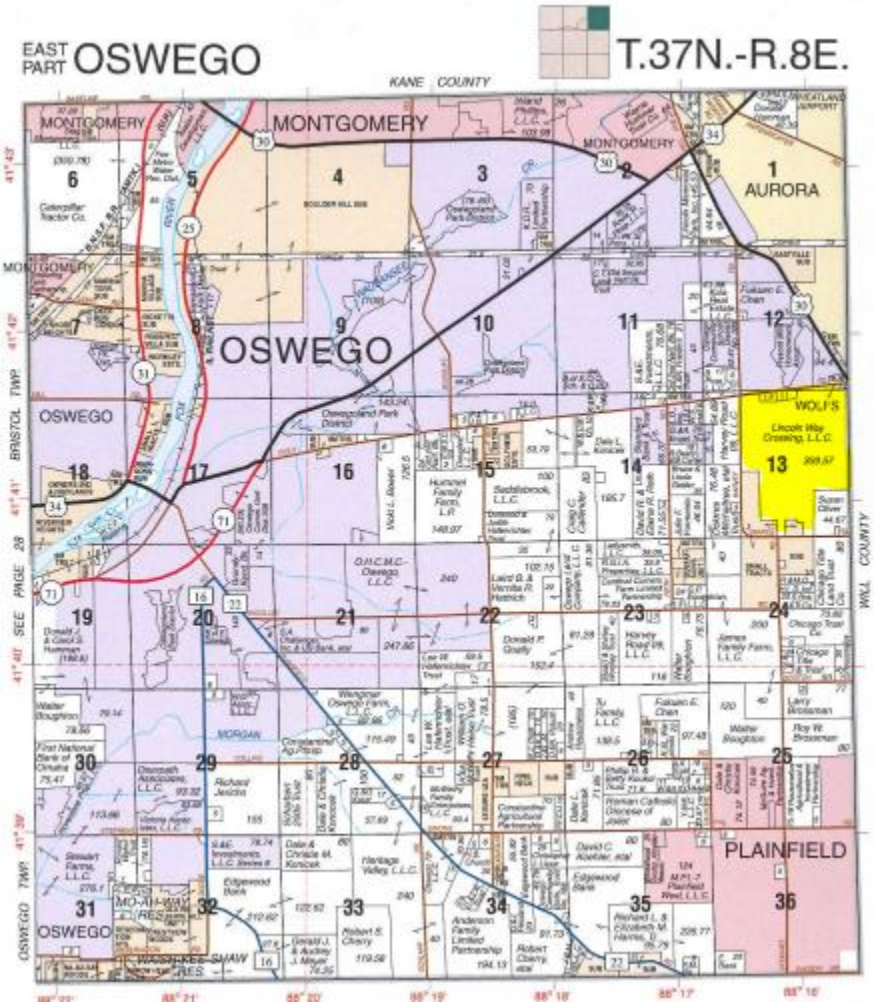
Biosolids Field Record

KE Cryder 60

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/11/2023	11/6/2023	City of Aurora - Lime	421.55	39.09	164.78
Total			421.55		164.78

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



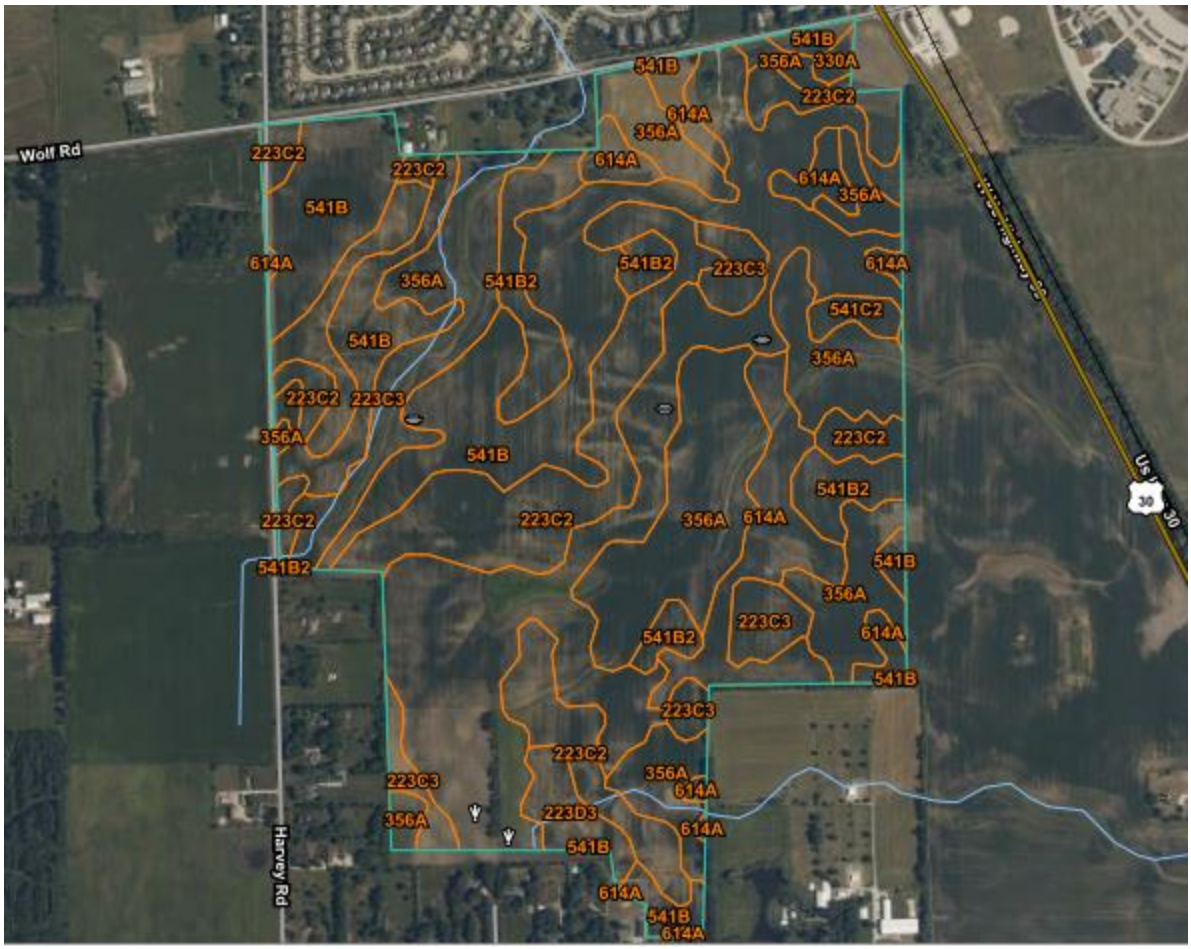
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: April 22, 2021
Workorder: **2103S05**

Client Sample ID: **KE_WL Lincolnway**
Lab ID: 2103S05-001 **Date Received:** 03/31/2021 12:14 PM

Matrix: SOIL
Collection Date: 03/30/2021 9:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: JH	
Radium-226	ND	0.50		pCi/g	1	04/19/2021 12:00 AM	73046
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: JH	
Radium-228	ND	0.50		pCi/g	1	04/14/2021 12:00 AM	72923

Created: 4/22/2021 11:47:12 AM

METAL LOADING RECORD

SITE NUMBER: KE Lincolnway 1
ACREAGE: 282.35
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 13

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
7	Nov-23	0.020	2.490	2.750	0.240	0.620	5.260	0.020	0.000	0.060	0.100					3520.94	838.73
3	Nov-23	0.003	0.018	0.262	0.009	0.003	0.031	0.000	0.000	0.000	0.000	0.005				1004.58	336.13
	TOTAL	0.130	19.480	33.860	1.740	3.340	32.890	0.290	0.000	0.400	0.610	0.061	pci/g				
	%of LIMIT	1.3	7.8	3.8	1.7	0.3	6.6	0.3	0	5	3.8						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.061	pci/g
4	% of Total Cumulative Limit	53.05	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-33-200-001,06-34-100-001
Section Number	33 and 34	Township *(Number and Direction)*	T36N
Tillable Acres	157	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Cryder 7-1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.65	+ / -	0	Radium-228	0.88	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/6/23	517.30	3.29	157	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Cryder

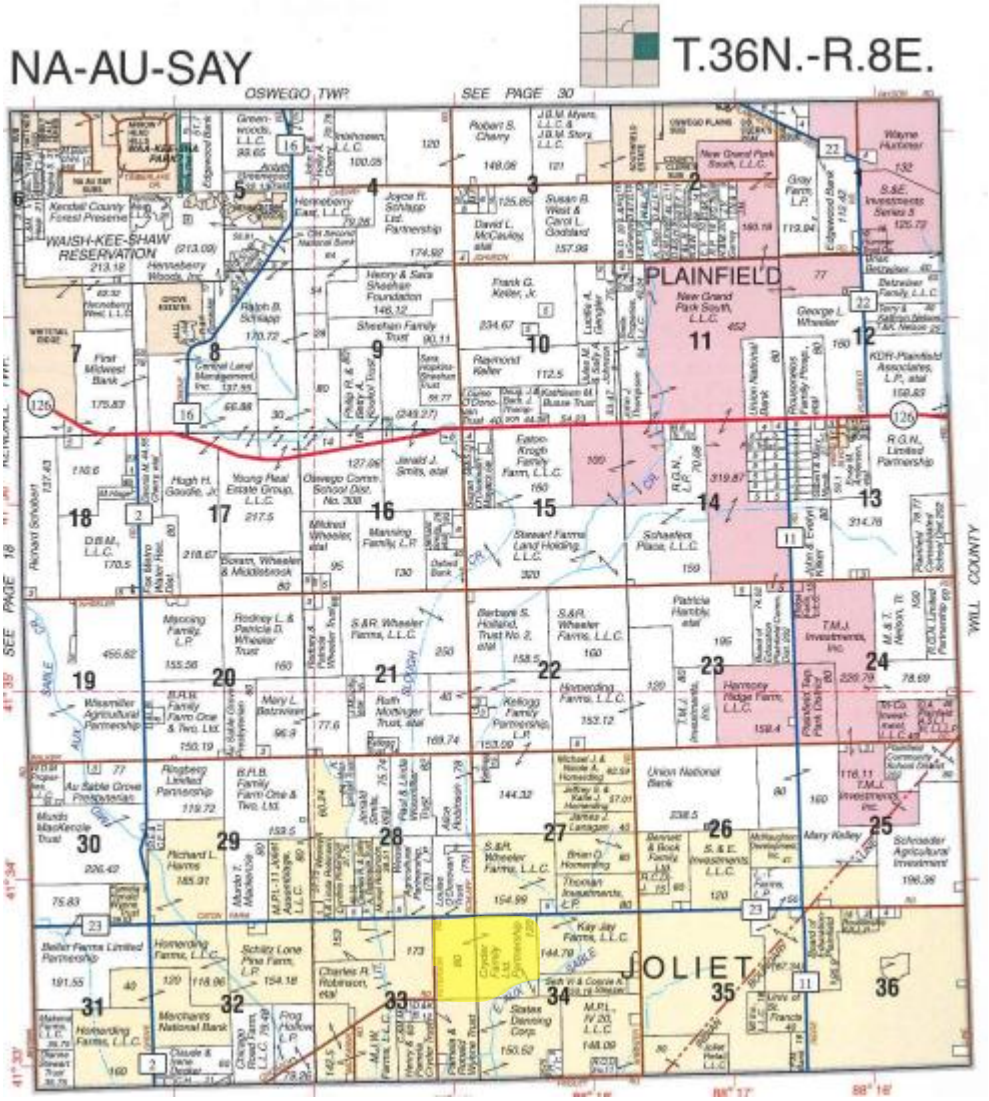
KE Cryder 7-1

157 acres

Kendall County

Na-Au-Say Township

Section 33,34



Cryder Cryder 7-1 Home

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	29.3%	0.60 to 2.00 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	22.0	36.3%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, November 29, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Cryder Home (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230304 is in Table 1. Stewart Spreading identified the sample as Cryder Home (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230304
	Cryder Home (Soil)
Ac-228	0.88
Ra-228[1]	0.88
Pb-214	0.64
Bi-214	0.67
Ra-226[2]	0.65
Total Radium[3]	1.53

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The

METAL LOADING RECORD

SITE NUMBER: KE Cryder 7-1
ACREAGE: 157

COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 33 and 34

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	November-23	0.008	0.049	0.724	0.025	0.008	0.085	0	0	0	0	0.014	8.5 pci/g
	TOTAL	0.01	0.05	0.72	0.03	0.01	0.09	0	0	0	0	0.014	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

1	Background Radium	1.530	pci/g
2	Site Limit	2.530	pci/g
3	Cumulative Total to Date	1.544	pci/g
4	% of Total Cumulative Limit	61.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-34-100-001
Section Number	34	Township *(Number and Direction)*	T36N
Tillable Acres	20	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Cryder 7-2

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.65	+ / -	0	Radium-228	0.88	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/6/23	65.79	3.29	20	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM0952

Cryder

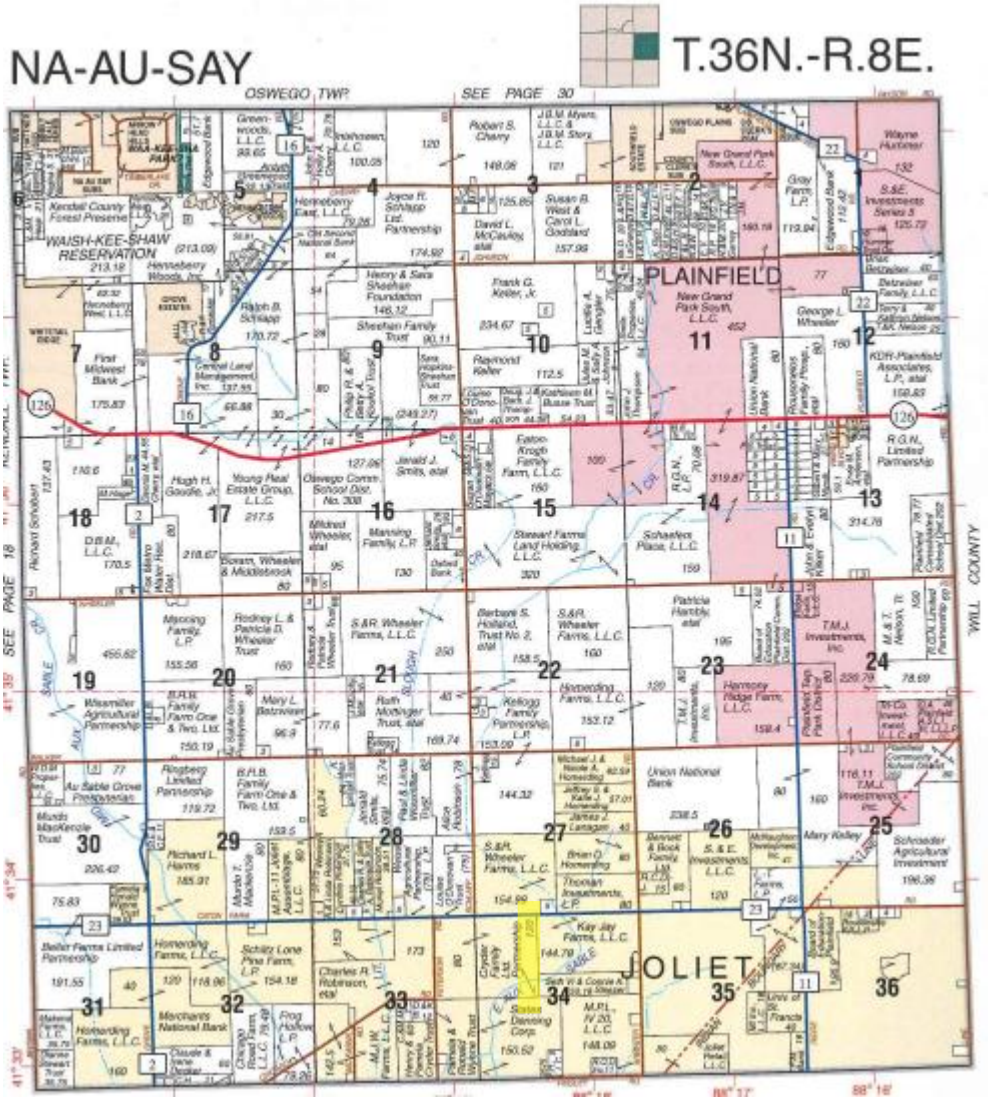
KE Cryder 7-2

20 acres

Kendall County

Na-Au-Say Township

Section 34



LRM0953

Cryder Cryder 7-2 Home

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, November 29, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Cryder Home (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230304 is in Table 1. Stewart Spreading identified the sample as Cryder Home (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230304
	Cryder Home (Soil)
Ac-228	0.88
Ra-228[1]	0.88
Pb-214	0.64
Bi-214	0.67
Ra-226[2]	0.65
Total Radium[3]	1.53

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The

METAL LOADING RECORD

SITE NUMBER: KE Cryder 7-2
ACREAGE: 20
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 34

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**November-23**	0.008	0.049	0.724	0.025	0.008	0.085	0	0	0	0	0.014	8.5 pci/g
	TOTAL	0.01	0.05	0.72	0.03	0.01	0.09	0	0	0	0	0.014	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

1	Background Radium	1.530	pci/g
2	Site Limit	2.530	pci/g
3	Cumulative Total to Date	1.544	pci/g
4	% of Total Cumulative Limit	61.03	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	3	Township *(Number and Direction)*	T38N
Tillable Acres	109	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KA Kellogg 23

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.5	+ / -	0.239	Radium-228	0.5	+ / -	0.31

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/3/23	166.61	1.53	109	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Rich Ellis

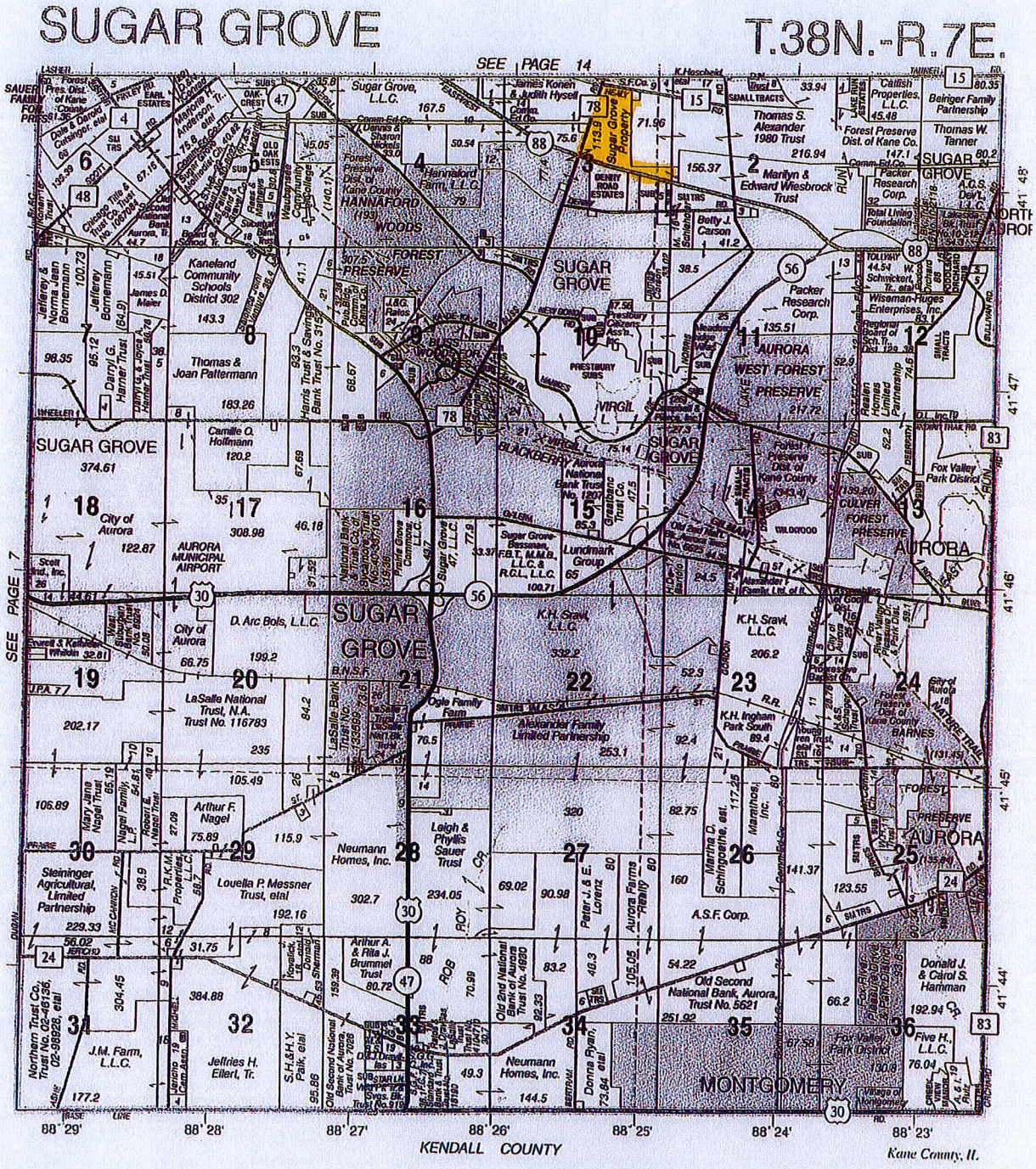
From: Rich Ellis
Sent: Monday, June 29, 2015 12:05 PM
To: Billie Marko
Subject: KA Kellogg 23 PIN #s

14-03-400-031
14-02-100-002
14-03-200-010
14-03-200-003
14-03-200-003
14-03-100-007
14-03-200-009
14-03-100-021

Plat Map

Matt Kellogg
9724 Schlapp Road
Yorkville, IL 60560

Field 23
109 Acres
Kane County
Sugar Grove Township
Section 3


SUGAR GROVE
T.38N.-R.7E.
SEE PAGE 14
SEE PAGE 7
KENDALL COUNTY
Kane County, IL
MONTGOMERY
AURORA
SUGAR GROVE
Sugar Grove Property
Kaneland Community Schools District 302
Thomas & Joan Paltermann
Camille Q. Hoffmann
City of Aurora
AURORA MUNICIPAL AIRPORT
D. Arc Bois, L.L.C.
LaSalle National Trust, N.A. Trust No. 116783
Ogle Family Farm
Alexander Family Limited Partnership
Lundmark Group
K.H. Gravl, L.L.C.
K.H. Ingham Park South
Packer Research Corp.
Thomas S. Alexander 1980 Trust
Marilyn & Edward Wiesbrock Trust
Betty J. Carson
Hannaford Farm, L.L.C.
Forest Preserve Dist. of Kane County
Fox Valley Park District
Old Second National Bank, Aurora, Trust No. 5621
Neumann Homes, Inc.
Louella P. Messner Trust, etal
Steininger Agricultural, Limited Partnership
Leigh & Phyllis Sauer Trust
Arthur F. Nagel
Arthur A. & Rita J. Brummel Trust
Jeffries H. Eiteri, Tr.
J.M. Farm, L.L.C.
Northern Trust Co. Trust No. 02-46136, 02-98928, etal
Donald J. & Carol S. Hamman
Five H, L.L.C.
A.S.F. Corp.
Aurora Farms Realty
Peter J. & E. Lorenz
Donna Ryan, etal
Old 2nd National Bank of Aurora Trust No. 4980
Old Second National Bank of Aurora, Trust No. 7028
Sugar Grove Bassman, F.B.T., M.M.B., L.L.C. & R.C.L., L.L.C.
Aurora National Bank Trust No. 120
Harris Trust & Savings Bank Trust No. 31547
Sugar Grove 47, L.L.C.
Prairie Grove Commons, L.L.C.
LaSalle Bank Trust No. 133699
Scott Trust, Inc.
Sweet & Kelleher
Wells Fargo Bank Trust No. 8824
Mary Jane Nagel Trust
Nagel Family, L.P.
R.K.M. Properties, L.L.C.
Arthur A. & Rita J. Brummel Trust
Old Second National Bank of Aurora, Trust No. 7028
Northern Trust Co. Trust No. 02-46136, 02-98928, etal
J.M. Farm, L.L.C.
Jeffries H. Eiteri, Tr.
S.H.&H.Y. Paik, etal
Donald J. & Carol S. Hamman
Five H, L.L.C.
Fox Valley Park District
Village of Montgomery
Forest Preserve Dist. of Kane County
Culver Forest Preserve
Barnes
Nature Trail
Aurora West Forest Preserve
Blackberry
Virgil
Prestbury Subs
Denny Road Estates
Woods Forest Preserve
Hannaford Woods
Oak Crest
Earl Estates
Old Oak Estates
Waubonsee Community College
Aurora Country Club
Sauer Family Foundation
Callfish Properties, L.L.C.
Beiriger Family Partnership
Thomas W. Tanner
Wiseman-Hughes Enterprises, Inc.
Realen Homes Limited Partnership
Fox Valley Park District
Culver Forest Preserve
Aurora West Forest Preserve
Forest Preserve Dist. of Kane County
Barnes
Nature Trail

Matt Kellogg
9724 Schlapp Road
Yorkville, IL 60560

KA Kellogg 23
Kane County
Sugar Grove Township
Section 3

152A	Drummer silty clay loam, 0 to 2 percent slopes	1.5	(0.60 to 2.00 in/hr)
171A	Catlin silt loam, 0 to 2 percent slopes	37.6	(0.20 to 0.60 in/hr)
198A	Elburn silt loam, 0 to 2 percent slopes	64.2	(0.60 to 2.00 in/hr)
512B	Danabrook silt loam, 2 to 5 percent slopes	8.2	(0.20 to 0.60 in/hr)



SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **13111707**

Date Reported: **12/4/2013**

CLIENT: Stewart Spreading, Inc

Collection Date: 9/1/2013

Project:

Lab ID: 13111707-006

Matrix: SOLID

Client Sample ID K A Kellog 23

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**SW9315**		Analyst: **CM**
RADIUM-226 ANALYSIS (9315)							
Radium-226	ND	0.40	U	pCi/g	± 0.239	1	12/3/2013 9:00:00 AM
RAD226/228					**SW9320**		Analyst: **CM**
RADIUM-228 ANALYSIS (9320)							
Radium-228	ND	0.40	U	pCi/g	± 0.31	1	12/2/2013 2:06:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds
C	Value is below Minimum Compound Limit.
H	Holding times for preparation or analysis exceeded
N	Tentatively identified compounds
O	RSD is greater than RSDlimit
PL	Permit Limit

METAL LOADING RECORD

SITE NUMBER: KA Kellog 23
ACREAGE: 109
COUNTY: Kane
TOWNSHIP: Sugar Grove
SECTION: 3

FARMER: Matt Kellogg
9724 Schlapp Rd
Yorkville, IL 60560

Source of biosolids
1 Geneva
2 Glenbard
3 Wheaton
4 Aurora - Lime
5 Bensensville
6 Huntley East
7 DuPage
8 FRWRD

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Nov-13	0.011	1.210	1.370	0.060	0.050	2.070	0.020	0.003	0.000	0.020	0.021	
2	Nov-13	0.010	5.870	1.430	0.140	0.260	8.250	0.010	0.026	0.040	0.070		
3	Nov-13	0.013	4.460	2.490	0.140	0.250	7.060	0.000	0.000	0.000	0.000		
4	11/13/013	0.003	0.027	0.459	0.013	0.008	0.240					0.008	
5	Apr-14	0.010	14.340	8.280	0.340	0.570	9.320	0	0.004293	0.11	0.13		
2	Apr-14	0	1.87	0.4	0.04	0.06	1.87	0	0.002554	0.02	0.02		
6	Apr-14	0	0.25	0.09	0	0	0.18	0.01	0	0.01	0	0.0026	
4	10/27/2014	0.001	0.006	0.119	0.006	0.001	0.056					0.0020	4.3000
7	Nov-14	0	1.96	1.49	0.06	0.1	2.45	0.01	0	0.02	0.03		
8	Nov-14	0	0.35	0.21	0.02	0.01	0.34	0	0	0	0.01	0.0244	
2	DEC-14	0.01	4.25	1.14	0.09	0.13	4.64	0.0143	0.0079	0.06	0.06	0.0008	
7	Sept 15	0	0.36	0.36	0.01	0.02	0.49	0	0	0	0.01		
3	November 2015	0.01	4.34	2.96	0.11	0.21	6.98	0.03	0.01	0.03	0.09	0.0100	
2	November 2015	0	0.57	0.14	0.01	0.02	0.64	0.0015	0.0023	0.01	0.01		
7	November 2015	0	0.92	0.91	0.03	0.05	1.25	0	0	0.01	0.02		
7	July 2019	0	0.24	0.19	0.99	0.28	0	0	0	0	0		
5	July 2019	0	1.1	2.11	0.08	0.13	1.27	0.01	0	0.02	0.03		
8	September 2019	0	0.64	0.56	0.04	0.03	0.76	0.01	0	0.01	0.02	0.0015	
4	November 2023	0.004	0.023	0.337	0.012	0.004	0.039	0	0	0	0	0.0070	8.5 pci/g
	TOTAL	0.070	42.790	25.040	2.190	2.180	47.900	0.120	0.060	0.340	0.520	0.077	pci/g
	%of LIMIT	0.7	17.1	2.8	2.2	0.2	9.6	0.1	0.1	4.3	3.2		

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative total to Date	1.077	pci/g
4	% of Total Cumulative Limit	53.85	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	34 and 35	Township *(Number and Direction)*	T40N
Tillable Acres	152	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KA Pitstick 155	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.85	+ / -	0	Radium-228	1.08	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/3/23	249.88	1.64	152	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

07-34-400-002
07-34-400-005
07-34-200-004

Pitstick

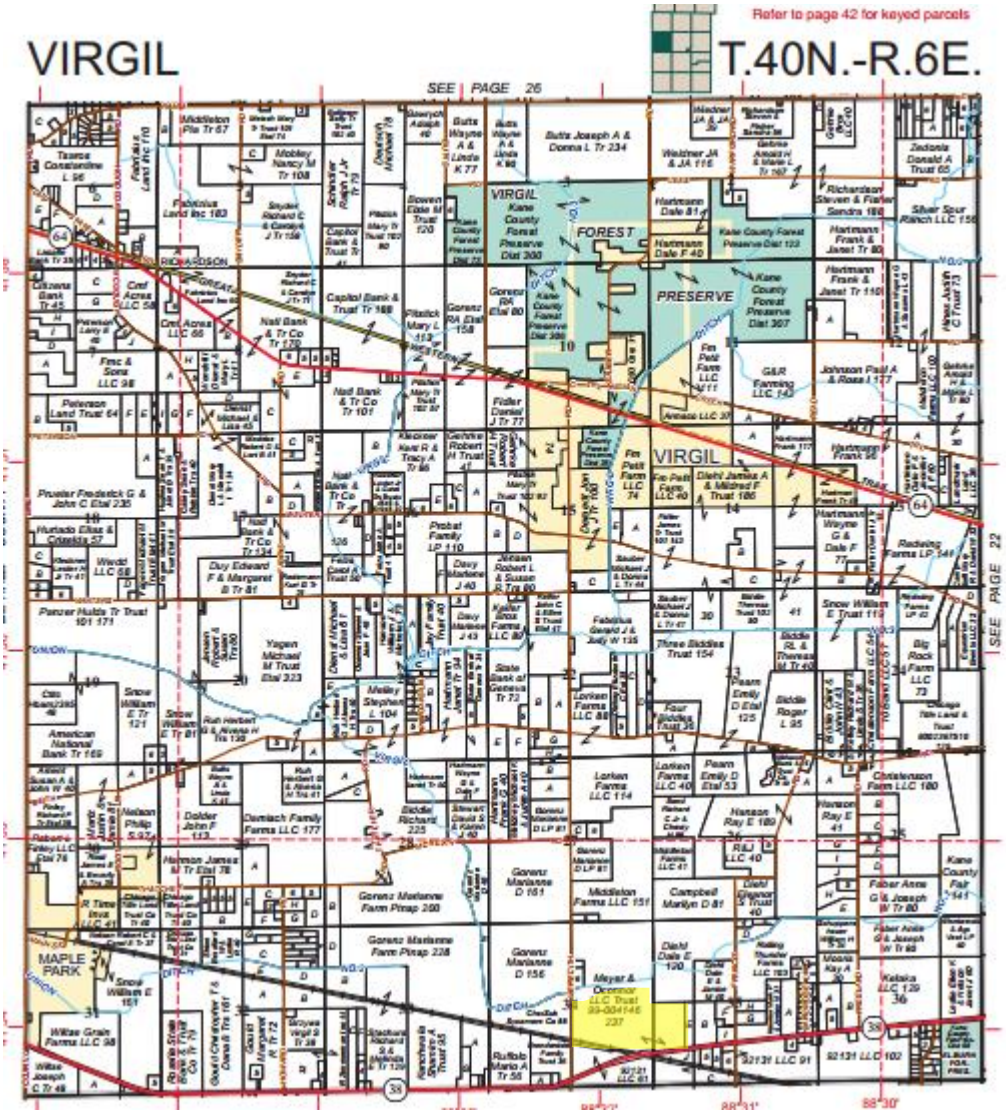
Pitstick 155

152 acres

Kane County

Virgil Township

Sections 34,35



	Pitstick	Pitstick 155			
67A	Harpster silty clay loam, 0 to 2 percent slopes	34.1	22.8%		0.60 to 2.00 in/hr
134C2	Camden silt loam, 5 to 10 percent slopes, eroded		3.6	2.4%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	69.7	46.6%		0.60 to 2.00 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	5.7	3.8%		0.20 to 0.57 in/hr
193C2	Mayville silt loam, 5 to 10 percent slopes, eroded		8.1	5.4%	0.20 to 0.57 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes	0.1	0.1%		0.60 to 2.00 in/hr
527B	Kidami silt loam, 2 to 4 percent slopes	2.1	1.4%		0.20 to 0.60 in/hr
527C2	Kidami loam, 4 to 6 percent slopes, eroded	5.7	3.8%		0.20 to 0.60 in/hr
668B	Somonauk silt loam, 2 to 5 percent slopes	20.5	13.7%		0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, November 29, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Pitstick 155 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230305 is in Table 1. Stewart Spreading identified the sample as Pitstick 155 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230305
	Pitstick 155 (Soil)
Ac-228	1.08
Ra-228[1]	1.08
Pb-214	0.87^
Bi-214	0.83
Ra-226[2]	0.85
Total Radium[3]	1.93

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KA Pitstick 155
ACREAGE: 152
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 34 and 35

FARMER: Dale Pitstick
ADDRESS: 2N118 Pouley Rd
Elburn, IL 60119
630-816-0223

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.004	0.024	0.361	0.012	0.004	0.042	0	0	0	0	0.0070	8.5 pci/g			576.15	249.88
	TOTAL	0	0.02	0.36	0.01	0	0.04	0	0	0	0	0.007	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative total to Date	1.937	pci/g
4	% of Total Cumulative Limit	66.11	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	3 and 4	Township *(Number and Direction)*	T37N
Tillable Acres	160	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Nichols 160

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.06	+ / -	0	Radium-228	0.96	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/2/23	599.90	3.75	160	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

02-04-200-001
02-04-200-002
02-03-100-002
02-03-300-001

Nichols

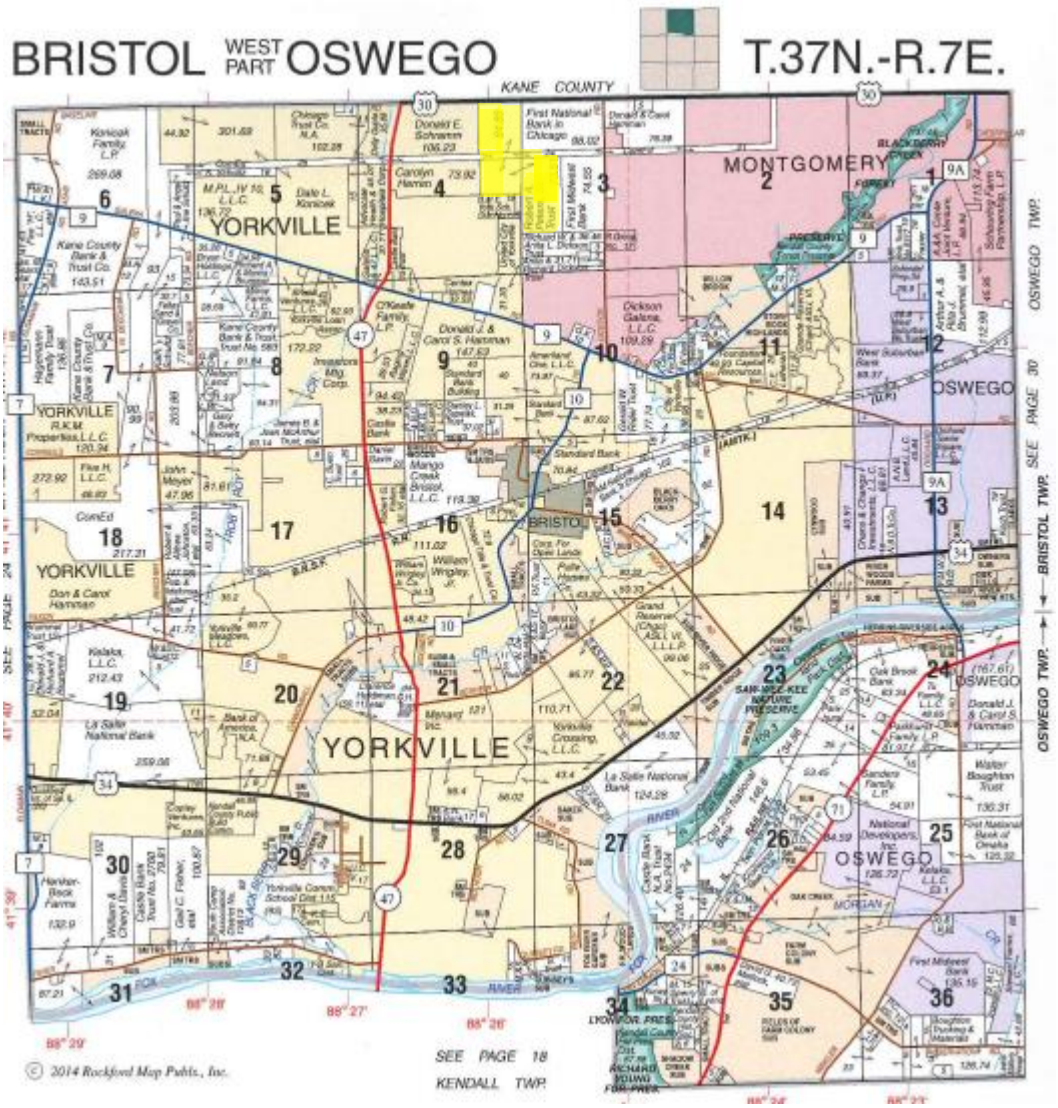
Nichols 160

160 acres

Kendall County

Bristol Township

Section 3,4



Nichols Nichols 160

59A	Lisbon silt loam, 0 to 2 percent slopes	15.1	9.5%		0.20 to 0.60 in/hr
67A	Harpster silty clay loam, 0 to 2 percent slopes		4.4	2.8%	.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.5	3.5%		0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes		86.1	54.2%	0.60 to 2.00 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	34.7	21.8%		0.06 to 0.20 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		13.1	8.2%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, November 29, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Nichols 160 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230306 is in Table 1. Stewart Spreading identified the sample as Nichols 160 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230306
	Nichols 160 (Soil)
Ac-228	0.96^
Ra-228[1]	0.96
Pb-214	0.96
Bi-214	1.15
Ra-226[2]	1.06
Total Radium[3]	2.01

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Nichols 160
ACREAGE: 160
COUNTY: Kendall
TOWNSHIP: Bristol
SECTION: 3 and 4

FARMER: Denny Nichols
ADDRESS: 45 W 045 Scott Road
Sugar Grove, IL 60554
630-675-1258

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.0160	8.5 pci/g			1597.56	599.90
	TOTAL	0.01	0.06	0.83	0.03	0.01	0.1	0	0	0	0	0.016	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.010	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.026	pci/g
4	% of Total Cumulative Limit	67.53	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	01-05-400-000
Section Number	1	Township *(Number and Direction)*	T36N
Tillable Acres	154	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Swenson 8	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.821	+ / -	0.130	Radium-228	1.80	+ / -	0.310/0.320

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/1/23	522.44	3.39	154	4.9	3.6

5. I certify the information provided above is accurate,

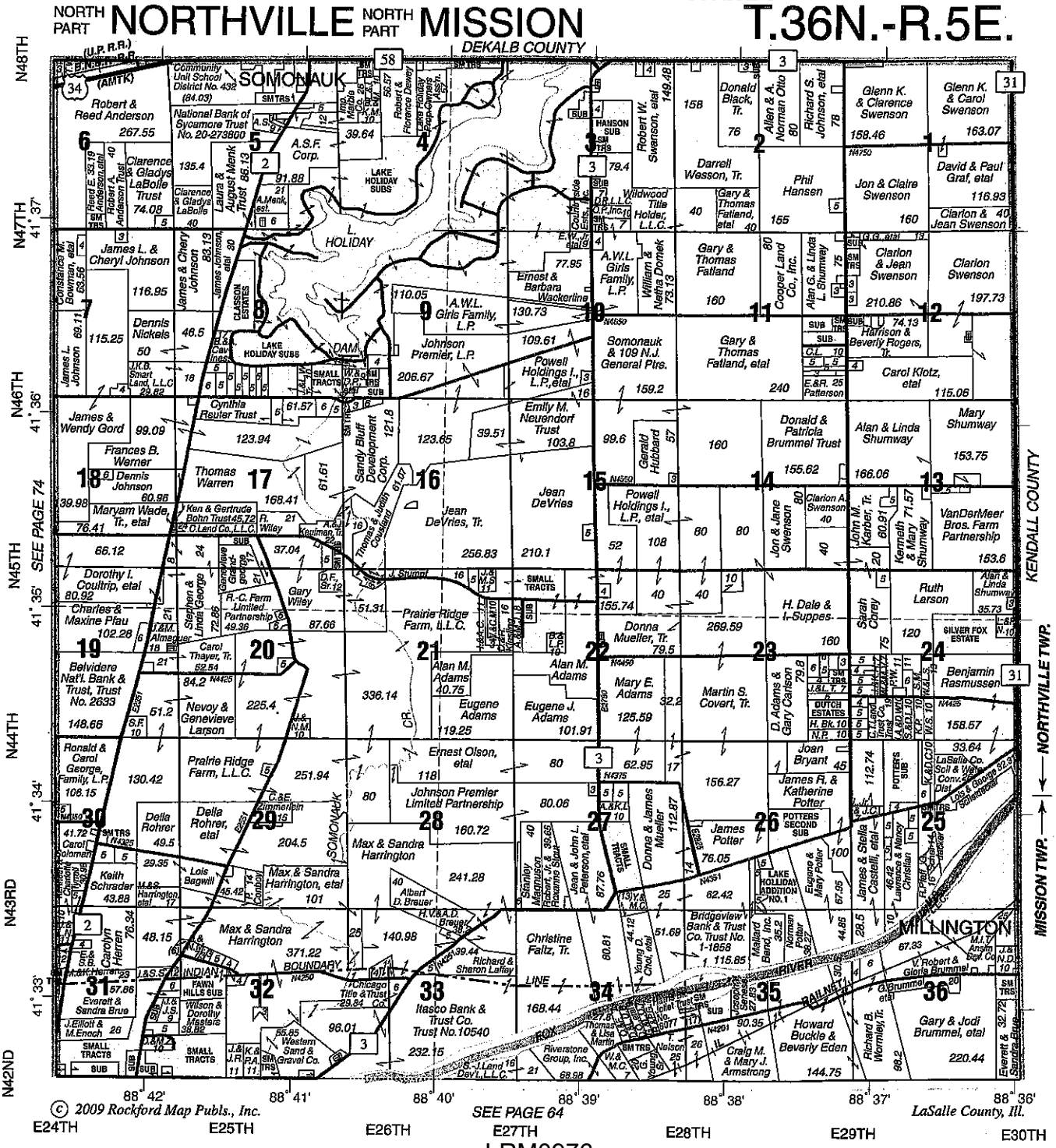
Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

Claire Swenson
13620 Lisbon Road
Newark, IL 60541

Field 8
154 Acres
LaSalle County
Northville Township
Section 1

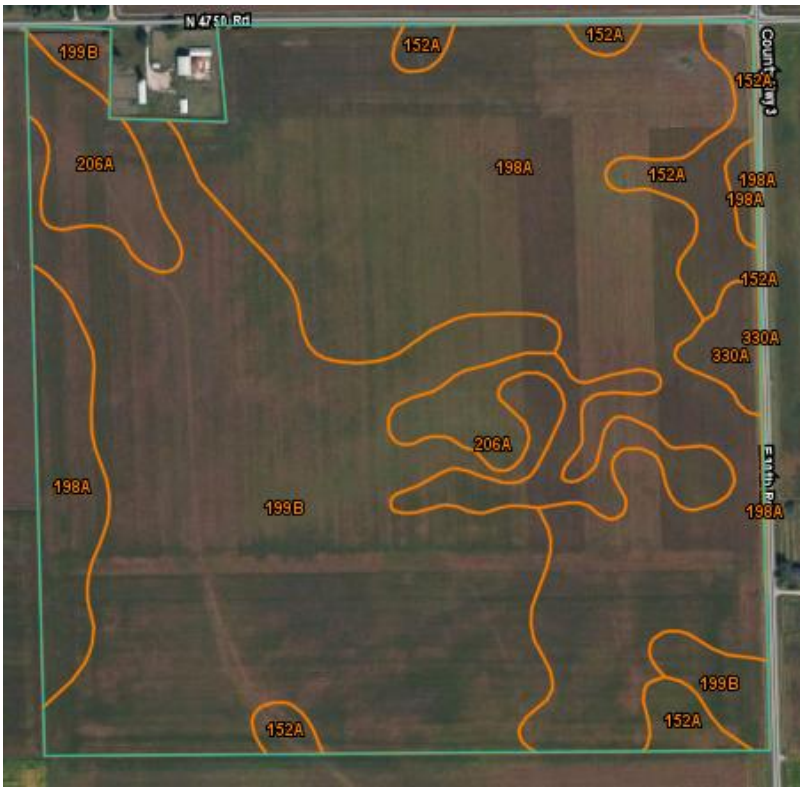


LRM0976

Claire Swenson

LS Swenson 8
154 Acres
LaSalle County
Northville Township, Section 1

152A Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	0.0	0.0% .60 to 2.0 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	0.0	0.0%.20 to 0.60 in/hr
152A Drummer silty clay loam, 0 to 2 percent slopes	8.1	5.2% .60 to 2.0 in/hr
198A Elburn silt loam, 0 to 2 percent slopes	67.9	43.5% .60 to 2.0 in/hr
199B Plano silt loam, 2 to 5 percent slopes	64.9	41.6% .60 to 2.0 in/hr
206A Thorp silt loam, 0 to 2 percent slopes	13.3	8.5% .06 to 0.20 in/hr
330A Peotone silty clay loam, 0 to 2 percent slopes	2.0	1.3% .20 to 0.60 in/hr



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **17050853**

Date Reported: **6/5/2017**

CLIENT: Stewart Spreading, Inc
Collection Date: 9/26/2012 9:00:00 AM
Project: Aurora
Lab ID: 17050853-001
Matrix: SOLID
Client Sample ID LS Swenson 8

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.821	0.0308		pCi/g-dry	± 0.130	1	6/5/2017 7:45:00 AM
Radium-228	1.80	0.0410		pCi/g-dry	+0.310 / -0.320	1	6/5/2017 7:45:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: LS Swenson 8
ACREAGE: 154
COUNTY: LaSalle
TOWNSHIP: Northville Township
SECTION: 1

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime
2 Glendale Heights
3 DuPage
4 Marseilles
5 Sandwich
6 Hinckley
7 Village of Plainfield

Metal Loadings in Pounds per Acr

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		
1	**Apr-17**	0.01	0.04	0.72	0.02	0.02	0.14	0.00	0.00	0.00	0.00	0.006		4.7 pci/g
1	**Nov-17**	0.019	0.069	0.909	0.059	0.011	0.174	0.000	0.000	0.000	0.000	0.013		5.5 pci/g
1	**Nov-22**	0.002	0.033	0.359	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006		5.38 pci/g
1	**Aug-23**	0.002	0.023	0.257	0.011	0.002	0.038	0	0	0	0	0.004		5.38 pci/g
2	**Aug-23**	0	0.07	0.09	0.01	0	0.16	0	0	0	0			
3	**Aug-23**	0.01	1.49	0.92	0.05	0.06	2.09	0.01	0	0.01	0.03			
2	**Sep-23**	0	0.09	0.12	0	0	0.21	0	0	0	0			
2	**Oct-23**	0	0.11	0.13	0.01	0	0.23	0	0	0	0			
2	**Nov-23**	0	0.07	0.04	0.01	0.02	0.11	0	0	0	0			
4	**Nov-23**	0.02	0.34	4.79	0.06	0.04	0.36	0.04	0	0.06	0.02	0.040		
5	**Nov-23**	0	0.35	0.34	0.12	0.08	0.54	0.01	0	0	0.04	0.010		
6	**Nov-23**	0	0.24	0.02	0.01	0	0.12	0	0	0	0	0.020		
1	**Oct-23**	0.006	0.038	0.57	0.02	0.006	0.067	0	0	0	0	0.011	8.5 pci/g	
7	**Oct.Nov-23**	0.004	0.34	0.21	0.02	0.01	0.55	0.01	0	0.01	0.01			
1	**Nov-23**	0.008	0.05	0.746	0.026	0.008	0.087	0	0	0	0	0.015	8.5 pci/g	
	TOTAL	0.08	3.35	10.23	0.44	0.25	4.93	0.07	0.00	0.08	0.10	0.125	pci/g	
	%of LIMIT	0.8	1.3	1.1	0.4	0	1	0.1	0	1	0.6			

1	Background Radium	2.621	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.746	pci/g
4	% of Total Cumulative Limit	91.53	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-26-300-004
Section Number	26	Township *(Number and Direction)*	T36-37 N
Tillable Acres	74.8	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Friestad 25

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.80	+ / -	0	Radium-228	1.06	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/14/23	303.41	4.06	74.8	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Friested

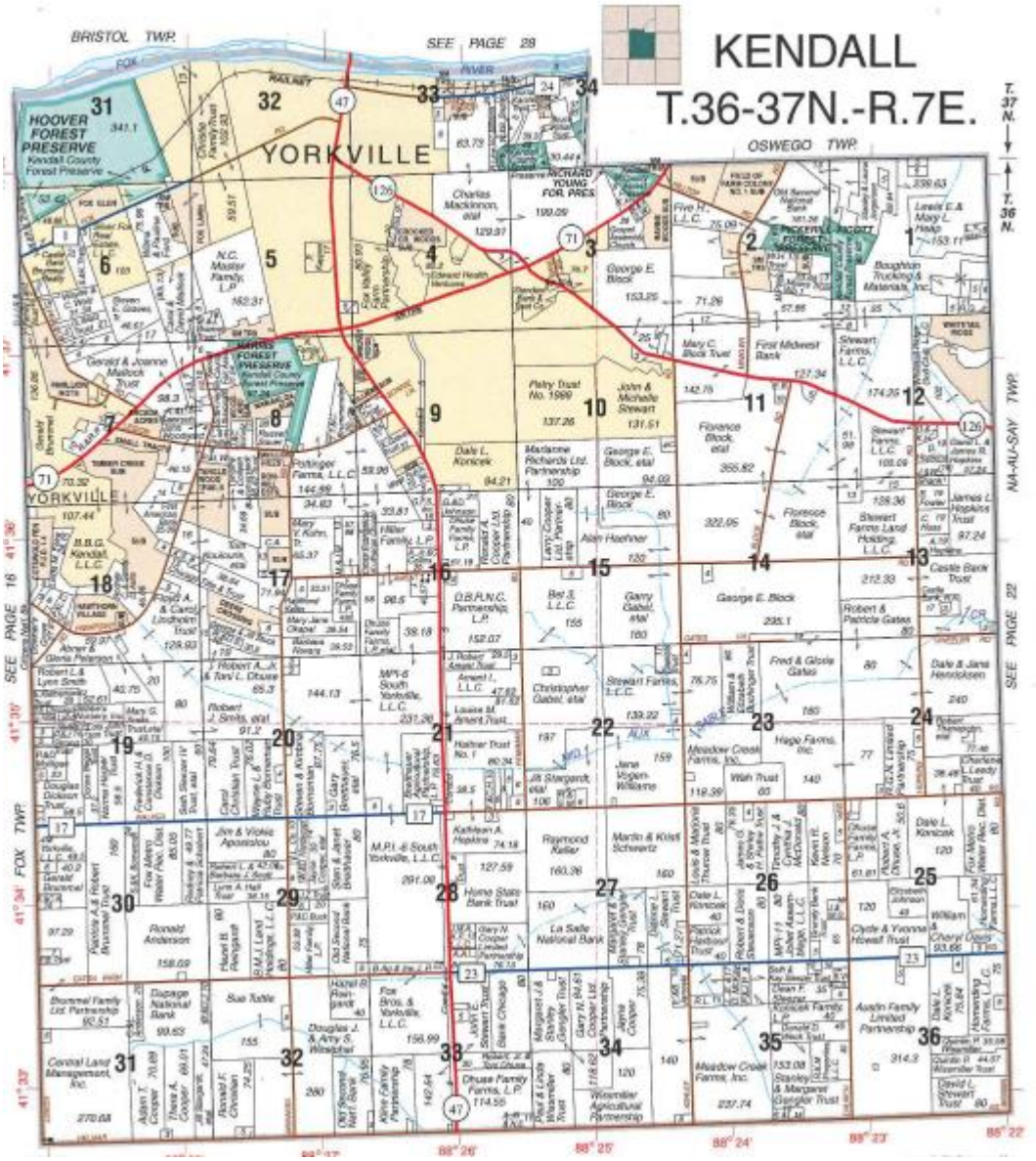
KE Friested 25

74.8 acres

Kendall County

Kendall Township

Section 26



Friested

KE Friested 25

74.8 acres

Kendall County

Kendall Township

Section 26

148B	Proctor silt loam, 2 to 5 percent slopes	1.8	2.3%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	5.6	6.9%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.0	20.8%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	34.8	42.6%	0.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	21.3	26.0%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.2	1.5%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, November 30, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Friestad 25 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230307 is in Table 1. Stewart Spreading identified the sample as Friestad 25 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230307
	Friestad 25 (Soil)
Ac-228	1.06^
Ra-228[1]	1.06
Pb-214	0.80
Bi-214	0.81
Ra-226[2]	0.80
Total Radium[3]	1.87

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 25
ACREAGE: 74.8

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 26

FARMER: Kirk Friested
ADDRESS: 10065 Chicago Road
Newark, IL 60541
815-736-6165

Source of biosolids
1 Naperville-Stockpile 2
2 Lasma lagoon 28
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0	1.17	0.59	0.04	0.02	1.73	0.01	0	0.01	0.02				350		63.59
2	Nov-23	0.050	6.390	7.070	0.620	1.600	13.510	0.050	0.010	0.150	0.260					2317.43	583.99
3	Nov-23	0.010	0.060	0.893	0.031	0.010	0.105	0.000	0.000	0.000	0.000	0.018	8.5 pci/g			797.5	303.41
TOTAL		0.06	7.62	8.55	0.69	1.63	15.35	0.06	0.01	0.16	0.28	0.018	pci/g				
%of LIMIT		0.6	3	1	0.7	0.2	3.1	0.1	0	2	1.7						

1	Background Radium	1.870	pci/g
2	Site Limit	2.870	pci/g
3	Cumulative total to Date	1.888	pci/g
4	% of Total Cumulative Limit	65.78	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	KA Lenkaitis 20	Tax Parcel ID Number *(PIN)**	08-23-226-006
Section Number	14 and 23	Township *(Number and Direction)*	T40N
Tillable Acres	20	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KA Lenkaitas 20

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.14	+ / -		Radium-228	0.86	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/4/23	85.04	4.25	20	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Andy Lenkaitis

6N707 Cornron Rd

Saint Charles, IL 60175

630-200-8617

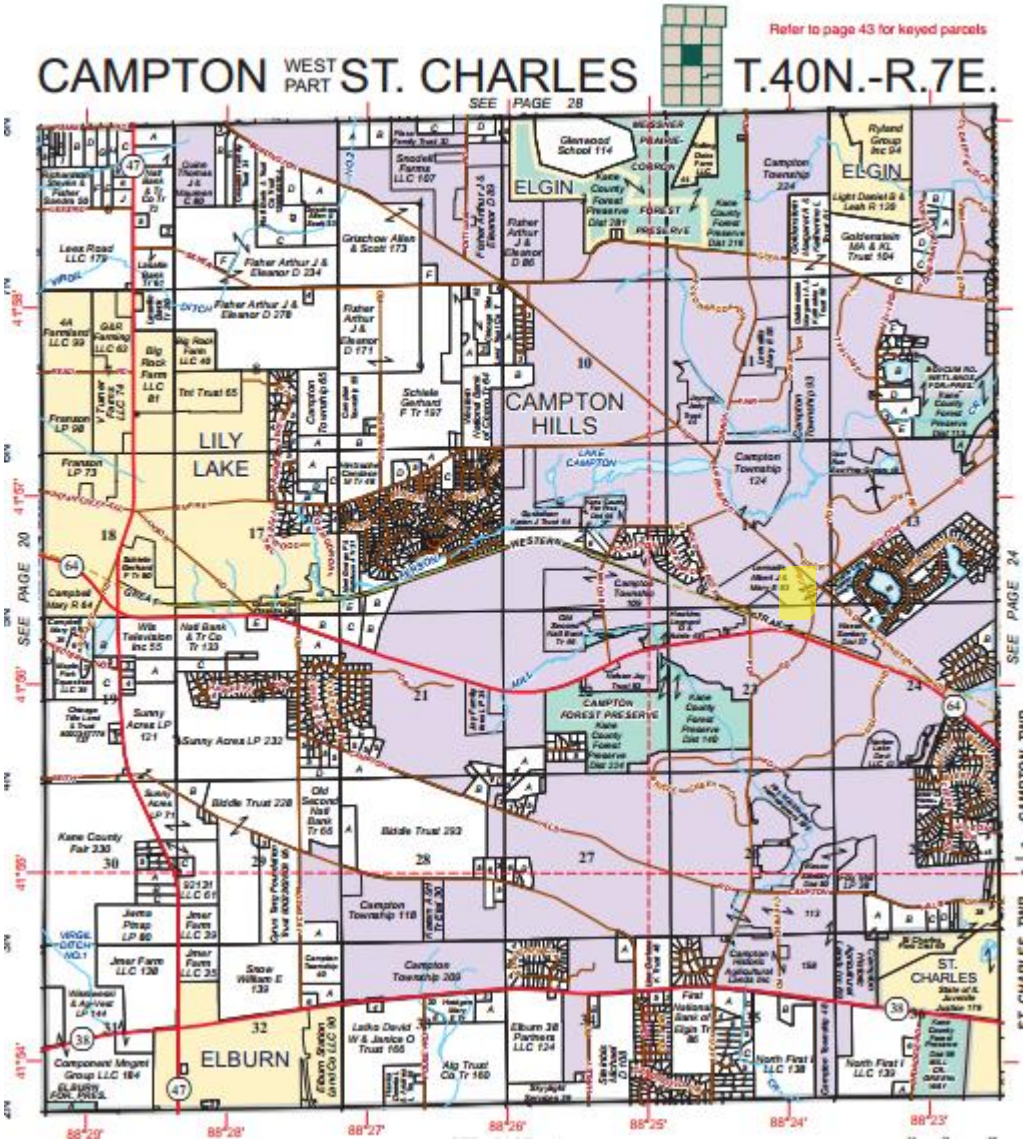
KA Lenkaitis 20

20 acres

Kane County

Campton Township

Section 14,23



Lenkatits Lenkatits 20

152A	Drummer silty clay loam, 0 to 2 percent slopes	0.0	0.0%	0.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	2.5	13.0%	0.60 to 2.00 in/hr
512B	Danabrook silt loam, 2 to 5 percent slopes	11.2	58.2%	0.20 to 0.60 in/hr
656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	5.4	28.0%	0.20 to 0.60 in/hr
663B	Clare silt loam, 2 to 5 percent slopes	0.1	0.7%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, November 30, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Lankaitus 20 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230308 is in Table 1. Stewart Spreading identified the sample as Lankaitus 20 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230308
	Lankaitus 20 (Soil)
Ac-228	0.86
Ra-228[1]	0.86
Pb-214	1.15
Bi-214	1.13
Ra-226[2]	1.14
Total Radium[3]	2.00

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at

METAL LOADING RECORD

SITE NUMBER: KA Lenkaitas 20
ACREAGE: 20

COUNTY: Kane
TOWNSHIP: Campton
SECTION: 14 and 23

FARMER: Andy Lenkaitis
ADDRESS: 6N707 Cornron Rd
Saint Charles, IL 60175
630-200-8617

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Nov-23	0.011	0.063	0.935	0.032	0.011	0.11	0	0	0	0	0.0180	8.5 pci/g			217.56	85.04
	TOTAL	0.01	0.06	0.94	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.000	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.018	pci/g
4	% of Total Cumulative Limit	67.27	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW (●) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-33-400-002
Section Number	33	Township *(Number and Direction)*	T36N
Tillable Acres	60	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Cryder 60	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.03	+ / -	0	Radium-228	1.14	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2023 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
11/6/23	164.78	2.75	60	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Scott Cryder

17160 Brisbin Road

Minooka, IL 60447

815-405-9744

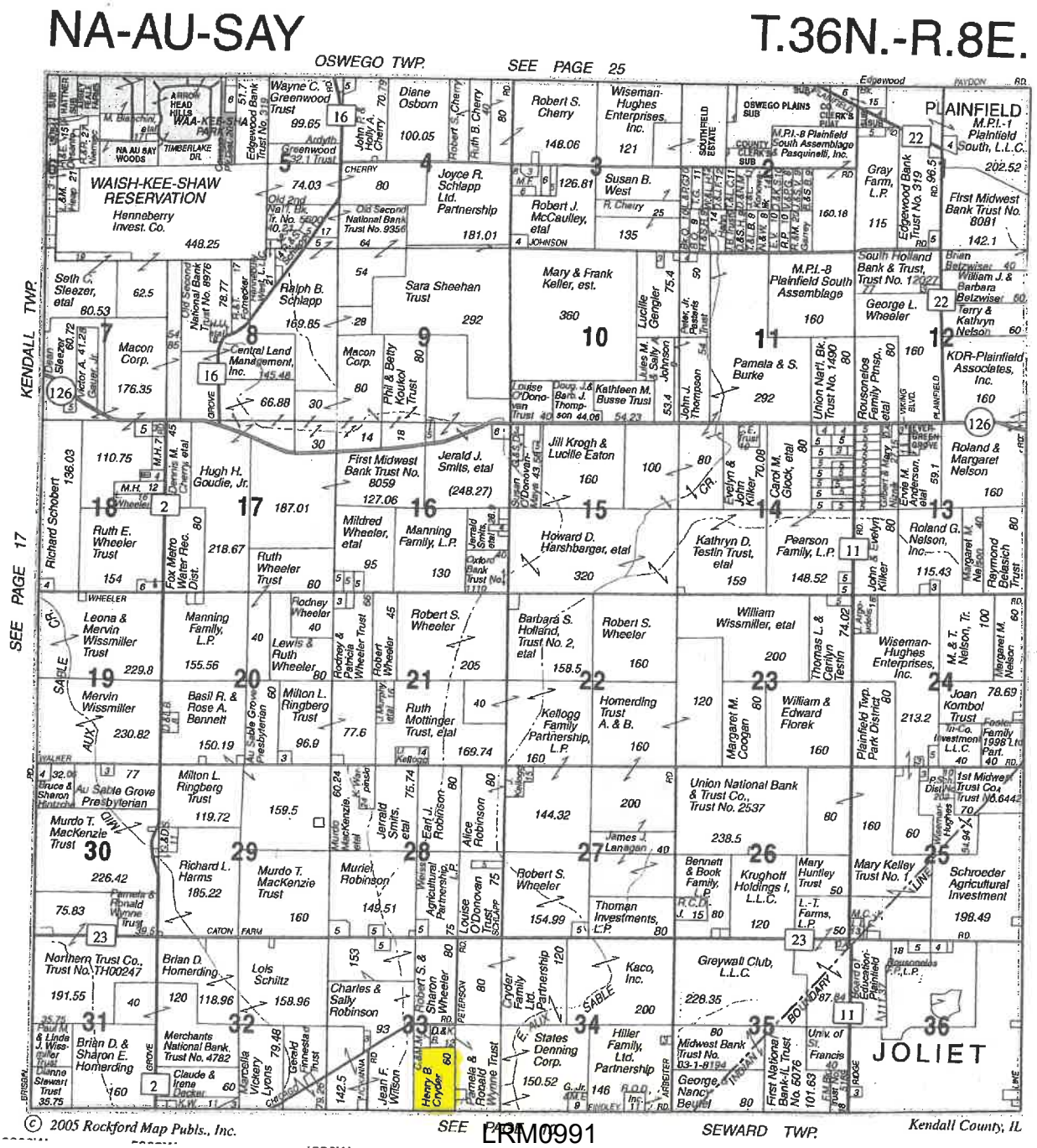
KE Cryder 60

60 Acres

Kendall County

Na-Au-Say Township

Section 33



LRM0991

Cryder Cryder 60

69A	Milford silty clay loam, 0 to 2 percent slopes	4.0	6.6%	0.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	29.3%	0.60 to 2.00 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	16.9	27.9%	0.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	22.0	36.3%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, November 30, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Cryder 60 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G230309 is in Table 1. Stewart Spreading identified the sample as Cryder 60 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G230309
	Cryder 60 (Soil)
Ac-228	1.14
Ra-228[1]	1.14
Pb-214	0.96
Bi-214	1.10^
Ra-226[2]	1.03
Total Radium[3]	2.16

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Cryder 60
ACREAGE: 60

COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 33

FARMER: Scott Cryder
ADDRESS: 17160 Brisbin Road
Minooka, IL
815-405-6744

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**November-23**	0.007	0.041	0.605	0.021	0.007	0.071	0	0	0	0	0.012	8.5 pci/g
	TOTAL	0.01	0.04	0.61	0.02	0.01	0.07	0	0	0	0	0.012	
	%of LIMIT	0	0	0	0	0	0	0	0	0	0		

1	Background Radium	2.160	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.172	pci/g
4	% of Total Cumulative Limit	72.40	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 13, 2023

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 5800 wet tons

Years Applied 2021 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3/13/23

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 33 and 34 KE Cryder 7-1

6.) Size of Area Where Lime is to be Used: 157 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Scott S 9-12-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 34 KE Cryder 7-2

6.) Size of Area Where Lime is to be Used: 20 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Scott S 9-12-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 18, 2023

2.) Name of User: Matt Kellogg

3.) Address of User: 9724 Schlapp Road Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: Kendall County, Kane County, Sugar Grove Township, Section 3 KA Kellogg 23

6.) Size of Area Where Lime is to be Used: 109 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

7-18-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 18, 2023

2.) Name of User: Dale Pitstick

3.) Address of User: 2N118 Pouley Rd Elburn, IL 60119

4.) Phone Number of User: 630-816-0223

5.) Location Where Lime is to be Used: Kane County, Blackberry Township, Section 4 KA Pitstick 155

6.) Size of Area Where Lime is to be Used: 152 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is:

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

9/18/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 9/12/23

2.) Name of User: Denny Nichols

3.) Address of User 45 W 045 Scott Road Sugar Grove, IL 60554

4.) Phone Number of User: 630-675-1258

5.) Location Where Sludge is to be Used: Kendall County, Bristol Township KE Nichols 160

6.) Size of Area Where Lime Residuals are to be Used: 160 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained:

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See Analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

9-12-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 8/9/23

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Rd.

4.) Phone Number of User: 815.736.6163

5.) Location Where Sludge is to be Used: LS Swenson 8

6.) Size of Area Where Lime Residuals are to be Used: 154 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 1400 wet tons

Years Applied 2022 and 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Claire Sweman 8/9/23 _____

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: September 20, 2023

2.) Name of User: Kirk Friested

3.) Address of User: 10065 Chicago Road Newark, IL 60541

4.) Phone Number of User: 815.736.6165

5.) Location Where Sludge is to be Used: Kendall County, Kendall Township KE Friestad 25

6.) Size of Area Where Lime Residuals are to be Used: 74.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Residuals Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Organic Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Organic Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in the Organic Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Organic Biosolids can be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Mark J Wright 9-20-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 12-22 -11

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 9/12/23

2.) Name of User: Andy Lenkaitis

3.) Address of User: 6N707 Cornron Rd Saint Charles, IL 60175

4.) Phone Number of User: 630-200-8617

5.) Location Where Sludge is to be Used: Kane County, Campton Township, KA Lenkaitis 20

6.) Size of Area Where Lime Residuals are to be Used: 20 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained:

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See Analysis

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

Clay Long 9/12/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Andy Lentkaitas

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 12, 2023

2.) Name of User: Scott Cryder

3.) Address of User: 17160 Brisbin Road, Minooka, IL

4.) Phone Number of User: 815-405-6744

5.) Location Where Lime is to be Used: Kendall County, Na-Au-Say Township, Section 33 KE Cryder 60

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Scott S 9-12-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-03-400-006
Section Number	29	Township *(Number and Direction)*	T37N
Tillable Acres	136	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Scott Cherry 155

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.64	+ / -	0	Radium-228	0.79	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/2,1/4 and 1/5/24	423.96	3.12	136	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 8, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

LRM1016

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Jan-24**

Biosolids Field Record

KE Scott Cherry 155

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/2/2024	1/2/2024	City of Aurora - Lime	730.52	42.11	307.62
1/4/2024	1/4/2024	City of Aurora - Lime	176.70	35.31	62.39
1/5/2024	1/5/2024	City of Aurora - Lime	152.77	35.31	53.94
Total			1059.99		423.96

Biosolids Field Record

KE Scott Cherry 75

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
1/5/2024	1/5/2024	City of Aurora - Lime	692.83	35.31	244.64
Total			692.83		244.64

Scott Cherry

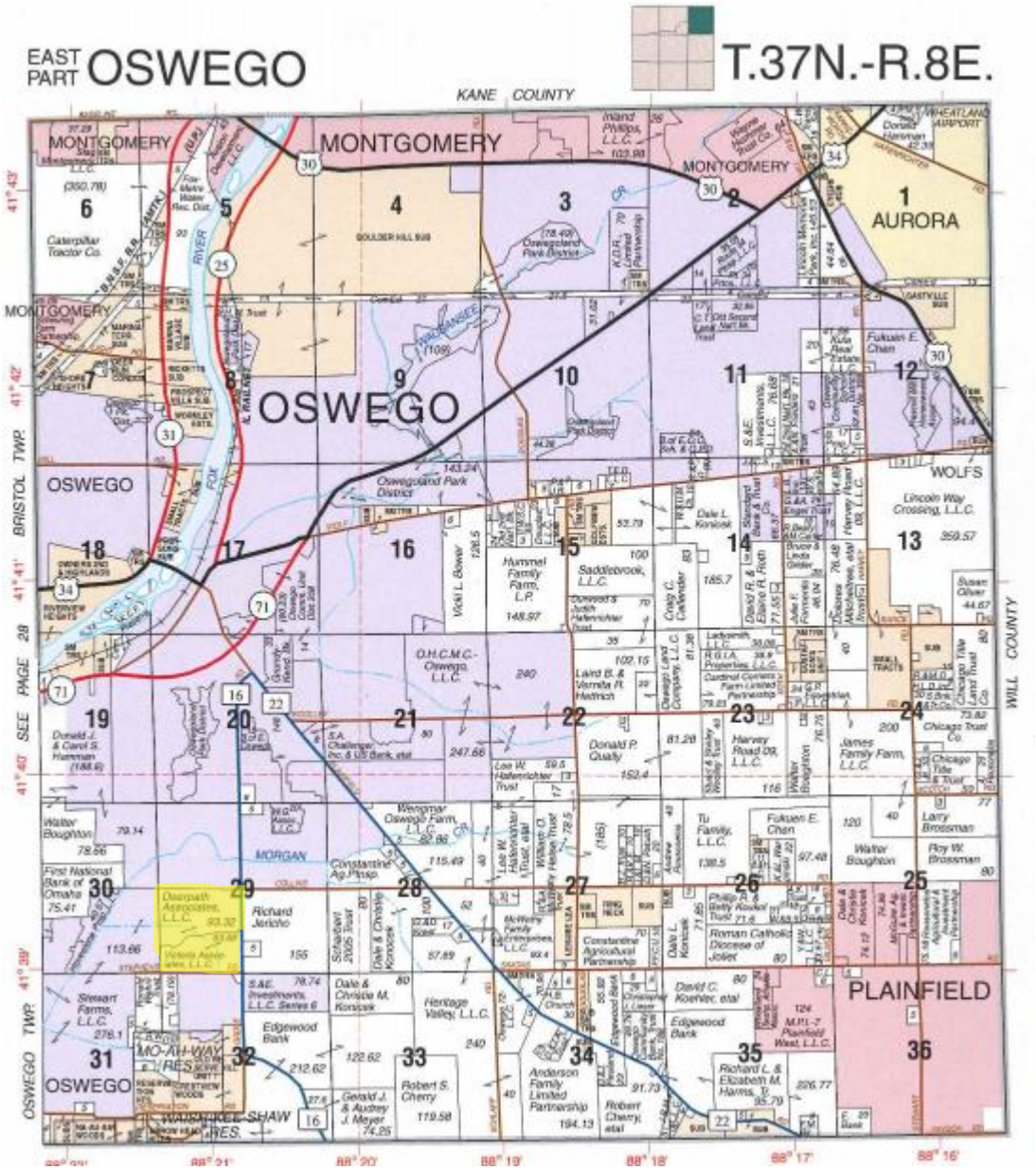
Scott Cherry 155 acres

Acres 136

Kendall County

Oswego Township

Section 29



Scott Cherry Scott Cherry 155 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, February 21, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Scott Cherry 230 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240002 is in Table 1. Stewart Spreading identified the sample as Scott Cherry 230 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240002
	Scott Cherry 230 (Soil)
Ac-228	0.79
Ra-228[1]	0.79
Pb-214	0.64
Bi-214	0.65
Ra-226[2]	0.64
Total Radium[3]	1.43

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 155
ACREAGE: 136
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 29

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.008	0.046	0.682	0.024	0.008	0.08	0	0	0.00	0	0.0130				1059.99	423.96
	TOTAL	0.01	0.05	0.68	0.02	0.01	0.08	0	0	0	0	0.013	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.443	pci/g
4	% of Total Cumulative Limit	59.38	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-10-200-003
Section Number	10	Township *(Number and Direction)*	T36N
Tillable Acres	68	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Scott Cherry 75	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.64	+ / -	0	Radium-228	0.79	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
1/5/24	244.64	3.59	68	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: May 8, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1022

Scott Cherry

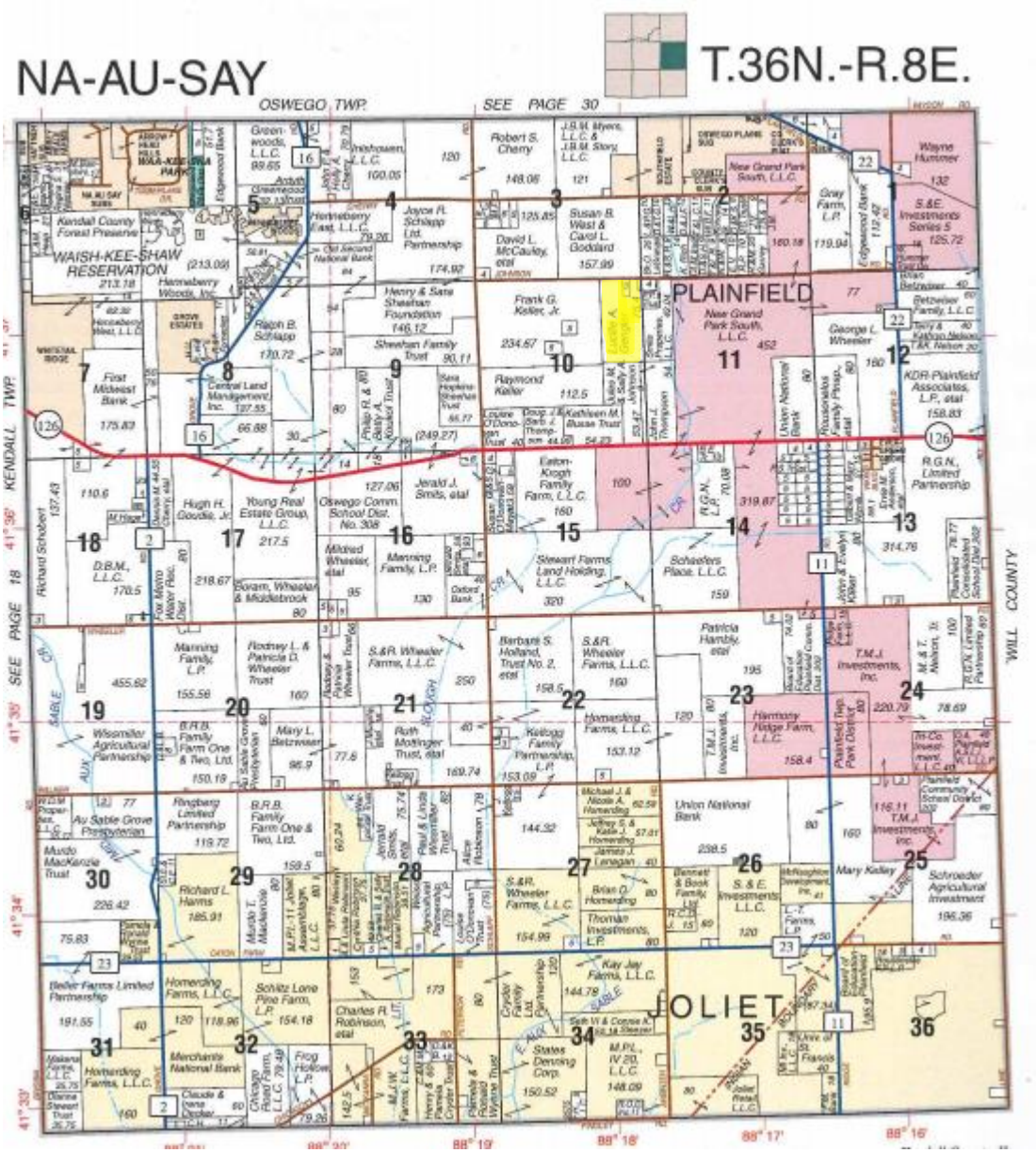
KE Cherry 75

68 acres

Kendall County

Na-Au-Say Township

Section 10



LRM1023

Scott Cherry Scott Cherry 75 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, February 21, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Scott Cherry 230 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240002 is in Table 1. Stewart Spreading identified the sample as Scott Cherry 230 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240002
	Scott Cherry 230 (Soil)
Ac-228	0.79
Ra-228[1]	0.79
Pb-214	0.64
Bi-214	0.65
Ra-226[2]	0.64
Total Radium[3]	1.43

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 75
ACREAGE: 68
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 10

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.009	0.053	0.792	0.027	0.009	0.093	0	0	0.00	0	0.0160				692.83	244.64
	TOTAL	0.01	0.05	0.79	0.03	0.01	0.09	0	0	0	0	0.016	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.446	pci/g
4	% of Total Cumulative Limit	59.51	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 155

6.) Size of Area Where Lime is to be Used: 136 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 75

6.) Size of Area Where Lime is to be Used: 68 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Robert Stewart Jr 12-13-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	03-29-300-007
Section Number	29	Township *(Number and Direction)*	T37N
Tillable Acres	150	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Scott Cherry 150	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.91	+ / -	0	Radium-228	1.03	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/19/+2/20/2024	456.65	3.0	150	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Feb-24**

Biosolids Field Record

KE Scott Cherry 150

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/19/24 and 2/20/24	City of Aurora - Lime	1141.62	40	456.65
Total			1141.62		456.65

Biosolids Field Record

KE Scott Cherry 130

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/20/2024	City of Aurora - Lime	401.65	40	160.66
Total			401.65		160.66

Biosolids Field Record

KE Scott Cherry 100

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/20/24 and 2/21/24	City of Aurora - Lime	179.53	40	71.81
2/20/2024	2/20/24 and 2/21/24	City of Aurora - Lime	124.02	46.93	58.20
2/20/2024	2/20/24 and 2/21/24	City of Aurora - Lime	545.72	37.57	205.03
2/21/2024	2/20/24 and 2/21/24	City of Aurora - Lime	305.77	45.11	137.93
Total			1155.04		472.97

Biosolids Field Record

KE G Brummel 105

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/22/2024	2/22/2024	City of Aurora - Lime	1261.16	42.98	542.05
Total			1261.16		542.05

Biosolids Field Record

KE G Brummel 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/22/2024	2/23/2024	City of Aurora - Lime	326.27	42.98	140.23
2/23/2024	2/23/2024	City of Aurora - Lime	1029.88	37.29	384.04
Total			1356.15		524.27

Biosolids Field Record

KE Santoro 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/21/2024	2/23/2024	City of Aurora - Lime	233.91	45.11	105.52
2/23/2024	2/23/2024	City of Aurora - Lime	226.10	37.29	84.31
2/26/2024	2/26/2024	City of Aurora - Lime	453.75	40.14	182.14
Total			913.76		371.96

Biosolids Field Record

KE G Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/26/2024	2/26/2024	City of Aurora - Lime	160.91	40.14	64.59
Total			160.91		64.59

Biosolids Field Record

KE Scott Cherry 75

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
2/19/2024	2/19/2024	City of Aurora - Lime	87.50	40	35.00
Total			87.50		35.00

Scott Cherry

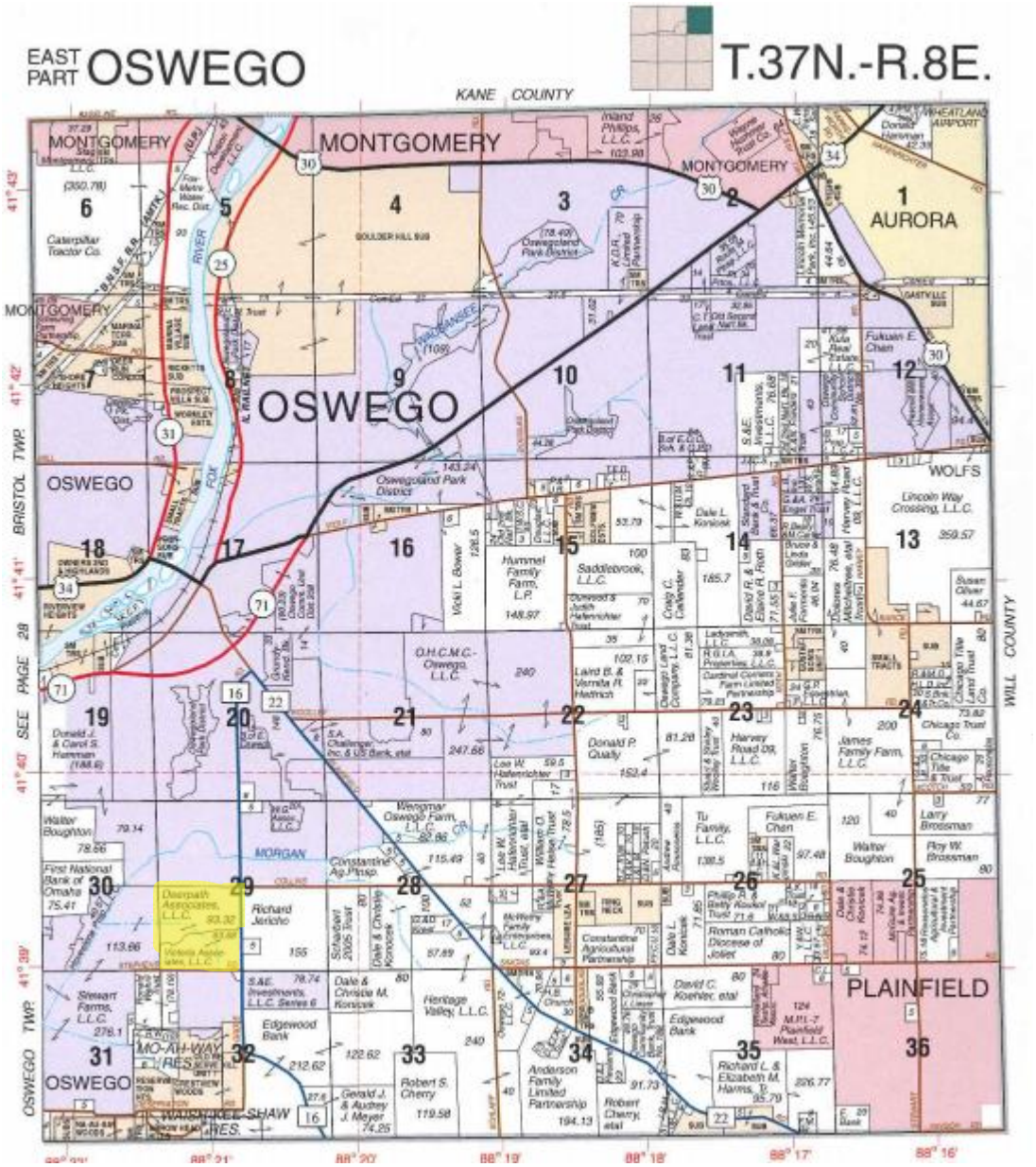
Scott Cherry 150 acres

Acres 136

Kendall County

Oswego Township

Section 29



Scott Cherry

Scott Cherry 150 acres

Acres 136

Kendall County

Oswego Township

Section 29

59A	Lisbon silt loam, 0 to 2 percent slopes	10.4	6.3%	.20 to 0.60 in/hr
60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	0.5	0.3%	.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.7	11.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.9	2.3%	0.06 to 0.60 in/hr
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	10.3	6.2%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	43.9	26.5%	.60 to 2.00 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	23.2	14.0%	.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	24.0	14.5%	.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	0.4	0.2%	.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	30.3	18.3%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, April 04, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240080-3 is in Table 1. Stewart Spreading identified the samples as Scott Cherry 150 (Soil), Scott Cherry 130 (Soil), Scott Cherry 100 (Soil), and KE G Brummel 105 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240080	G240081	G240082	G240083
	Scott Cherry 150 (Soil)	Scott Cherry 130 (Soil)	Scott Cherry 100 (Soil)	KE G Brummel 105 (Soil)
Ac-228	1.03	< 0.12^	1.42	1.26
Ra-228[1]	1.03	< 0.12^	1.42	1.26
Pb-214	0.80	0.95	0.97	0.87
Bi-214	1.01	0.82	0.90	0.80
Ra-226[2]	0.91	0.89	0.94	0.84
Total Radium[3]	1.93	< 1.01^	2.36	2.09

^ Peaks identified by GammaVision at known energies, but not matched to isotope.

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.

[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 150
ACREAGE: 136
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 29

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.008	0.05	0.739	0.026	0.008	0.087	0	0	0.00	0	0.0150				1141.62	456.65
	TOTAL	0.01	0.05	0.74	0.03	0.01	0.09	0	0	0	0	0.015	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative total to Date	1.945	pci/g
4	% of Total Cumulative Limit	66.38	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-04-100-010
Section Number	4	Township *(Number and Direction)*	T36N
Tillable Acres	150	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Scott Cherry 130

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.89	+ / -	0	Radium-228	0.12	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/19/+2/20/2024	160.66	1.07	150	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Scott Cherry

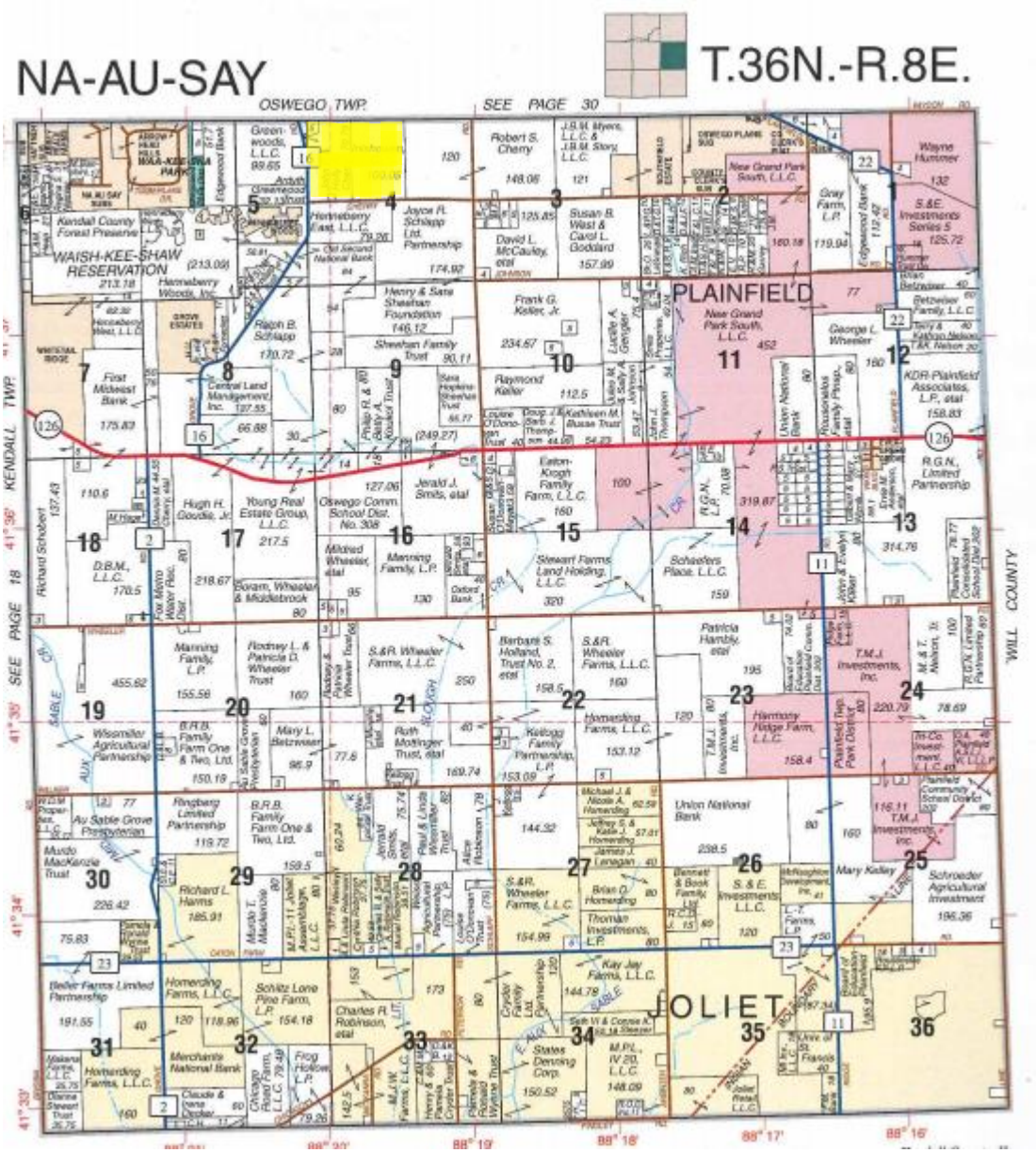
KE Cherry 130

150 acres

Kendall County

Na-Au-Say Township

Section 4


NA-AU-SAY
T.36N.-R.8E.
OSWEGO TWP.
SEE PAGE 30
KENDALL TWP.
SEE PAGE 18
WILL COUNTY
PLAINFIELD
JOLIET
WAISH-KEE-SHAW RESERVATION
Kendall County Forest Preserve
Au Sable Grove Presbyterian
Merchants National Bank
Union National Bank
Oswego Comm. School Dist. No. 308
Plainfield Community School District
Plainfield Twp. Park District
Robert S. Cherry
Susan B. West & Carol L. Goddard
Frank G. Keller, Jr.
Raymond Keller
Stewart Farms Land Holding, L.L.C.
Schaefers Place, L.L.C.
Harmony Ridge Farm, L.L.C.
Homerding Farms, L.L.C.
Wissmiller Agricultural Partnership
Schroeder Agricultural Investment
Mary Kelley
Wayne Hummer
Gray Farm, L.P.
George L. Wheeler
Union National Bank
Hugh H. Goudie, Jr.
Young Real Estate Group, L.L.C.
Richard L. Harms
Charles R. Robinson, et al
States Deming Corp.
Kay Jay Farms, L.L.C.
Thomas Investments, L.P.
Brian D. Homerding
Michael J. & Nicole A. Homerding
Jeffrey S. & Katie J. Homerding
James J. Lenagan
Bennett & Book Family, L.P.
S. & E. Investments, L.L.C.
S.&E. Investments Series 5
KDR-Plainfield Associates, L.P., et al
R.G.N. Limited Partnership
Eaton-Krogh Family Farms, L.L.C.
Patricia Hambly, et al
T.M.J. Investments, Inc.
Mary L. Betzwieser
Ruth Motzinger Trust, et al
Kellogg Family Partnership, L.P.
Homerding Farms, L.L.C.
S.&R. Wheeler Farms, L.L.C.
Barbara S. Holland, Trust No. 2, et al
Manning Family, L.P.
Rodney L. & Patricia D. Wheeler Trust
Mildred Wheeler, et al
Jerald J. Smits, et al
Paul & Linda Wheeler Trust
Alice Robinson
Jerald Smits
Ringberg Limited Partnership
B.R.B. Family Farm One & Two, Ltd.
Mudo MacKenzie Trust
Bebler Farms Limited Partnership
Schlitz Lone Pine Farm, L.P.
Frog Hollow, L.P.
Chicago Road Farm, L.L.C.
Claude & Ivana Becker
Diane Stewart Trust
Makana, L.L.C.
Richard Schubert
D.B.M., L.L.C.
Fox Metro Water Rec. Dist.
Boram, Wheeler & Middlebrook
Central Land Management, Inc.
Raion B. Schlapp
Henneberry Woods, Inc.
Henneberry East, L.L.C.
Joyce R. Schlapp Ltd. Partnership
Henry & Sara Sheehan Foundation
Sheehan Family Trust
Philip R. & Betty A. Kolstad Trust
Greenwood Bank
Old Second National Bank
Arrow Head Hills Maa-Kee-Wa Park
Grove Estates
Whetstone Ridge
Edgewood Bank
Kendall County Forest Preserve
Merchants National Bank
Union National Bank
Plainfield Community School District
Plainfield Twp. Park District
Oswego Comm. School Dist. No. 308

Scott Cherry

Scott Cherry 130 acres

Acres 150

Kendall County

Na-Au-Say Township

Section 4

59A	Lisbon silt loam, 0 to 2 percent slopes	10.4	6.3%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.7	11.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.9	2.3%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	0.6	0.4%	06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	0.2	0.2%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	2.1	1.3%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	70.6	44.9%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.2	1.4%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, April 04, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240080-3 is in Table 1. Stewart Spreading identified the samples as Scott Cherry 150 (Soil), Scott Cherry 130 (Soil), Scott Cherry 100 (Soil), and KE G Brummel 105 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240080	G240081	G240082	G240083
	Scott Cherry 150 (Soil)	Scott Cherry 130 (Soil)	Scott Cherry 100 (Soil)	KE G Brummel 105 (Soil)
Ac-228	1.03	< 0.12^	1.42	1.26
Ra-228[1]	1.03	< 0.12^	1.42	1.26
Pb-214	0.80	0.95	0.97	0.87
Bi-214	1.01	0.82	0.90	0.80
Ra-226[2]	0.91	0.89	0.94	0.84
Total Radium[3]	1.93	< 1.01^	2.36	2.09

^ Peaks identified by GammaVision at known energies, but not matched to isotope.

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.

[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 130
ACREAGE: 150
COUNTY: Kendall
TOWNSHIP: Na-Au-Say Township
SECTION: 4

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.003	0.016	0.235	0.008	0.003	0.028	0	0	0.00	0	0.0050				401.65	160.66
	TOTAL	0	0.02	0.24	0.01	0	0.03	0	0	0	0	0.005	pci/g				
	%of LIMIT	0	0	0	0	0	0	0	0	0	0						

1	Background Radium	1.010	pci/g
2	Site Limit	2.010	pci/g
3	Cumulative total to Date	1.015	pci/g
4	% of Total Cumulative Limit	50.49	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	03-33-200-001
Section Number	33	Township *(Number and Direction)*	T36N
Tillable Acres	115	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Scott Cherry 100	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.94	+ / -	0	Radium-228	1.42	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/20+2/21/24	472.97	4.1	115	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Scott Cherry

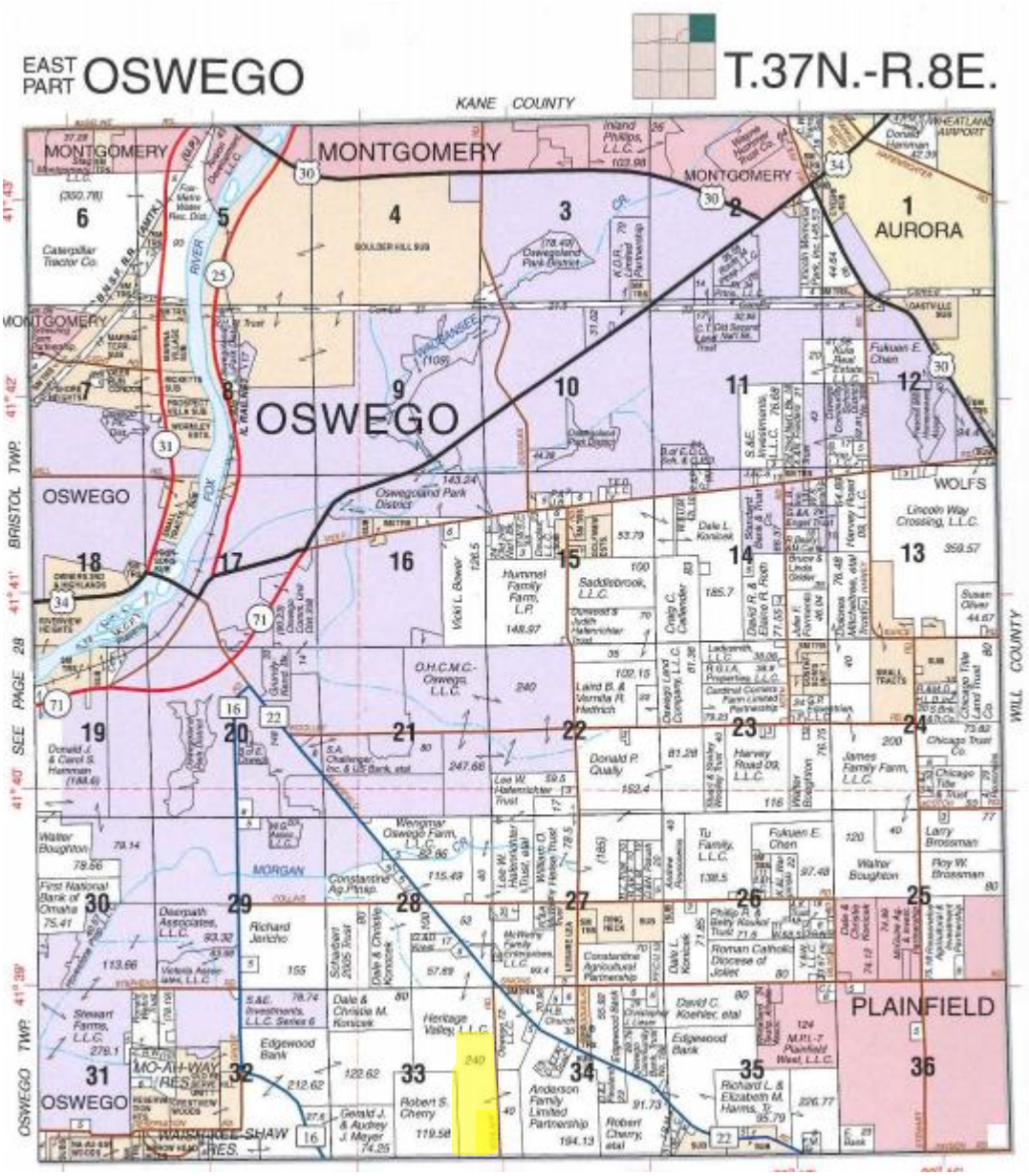
KE Cherry 100

115 acres

Kendall County

Oswego Township

Section 33



Scott Cherry

KE Cherry 100

115 acres

Kendall County

Oswego Township

Section 33

59A	Lisbon silt loam, 0 to 2 percent slopes	14.3	11.5%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	6.6	5.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	39.2	31.6%	.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	7.0	5.6%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	11.4	9.2%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.1	26.7%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	12.7	10.2%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, April 04, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240080-3 is in Table 1. Stewart Spreading identified the samples as Scott Cherry 150 (Soil), Scott Cherry 130 (Soil), Scott Cherry 100 (Soil), and KE G Brummel 105 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240080	G240081	G240082	G240083
	Scott Cherry 150 (Soil)	Scott Cherry 130 (Soil)	Scott Cherry 100 (Soil)	KE G Brummel 105 (Soil)
Ac-228	1.03	< 0.12^	1.42	1.26
Ra-228[1]	1.03	< 0.12^	1.42	1.26
Pb-214	0.80	0.95	0.97	0.87
Bi-214	1.01	0.82	0.90	0.80
Ra-226[2]	0.91	0.89	0.94	0.84
Total Radium[3]	1.93	< 1.01^	2.36	2.09

^ Peaks identified by GammaVision at known energies, but not matched to isotope.

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.

[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 100
ACREAGE: 115
COUNTY: Kendall
TOWNSHIP: Oswego Township
SECTION: 33

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Feb.24	0.01	0.061	0.904	0.031	0.01	0.106	0	0	0.00	0	0.0180				1155.04	472.97
	TOTAL	0.01	0.06	0.9	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
	%of LIMIT	0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	2.360	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.378	pci/g
4	% of Total Cumulative Limit	79.27	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	02-30-300-008
Section Number	30	Township *(Number and Direction)*	T3N
Tillable Acres	115	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE G Brummel 10 (105)	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.84	+ / -	0	Radium-228	1.26	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/22/24	542.05	4.7	115	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Gerry Brummel

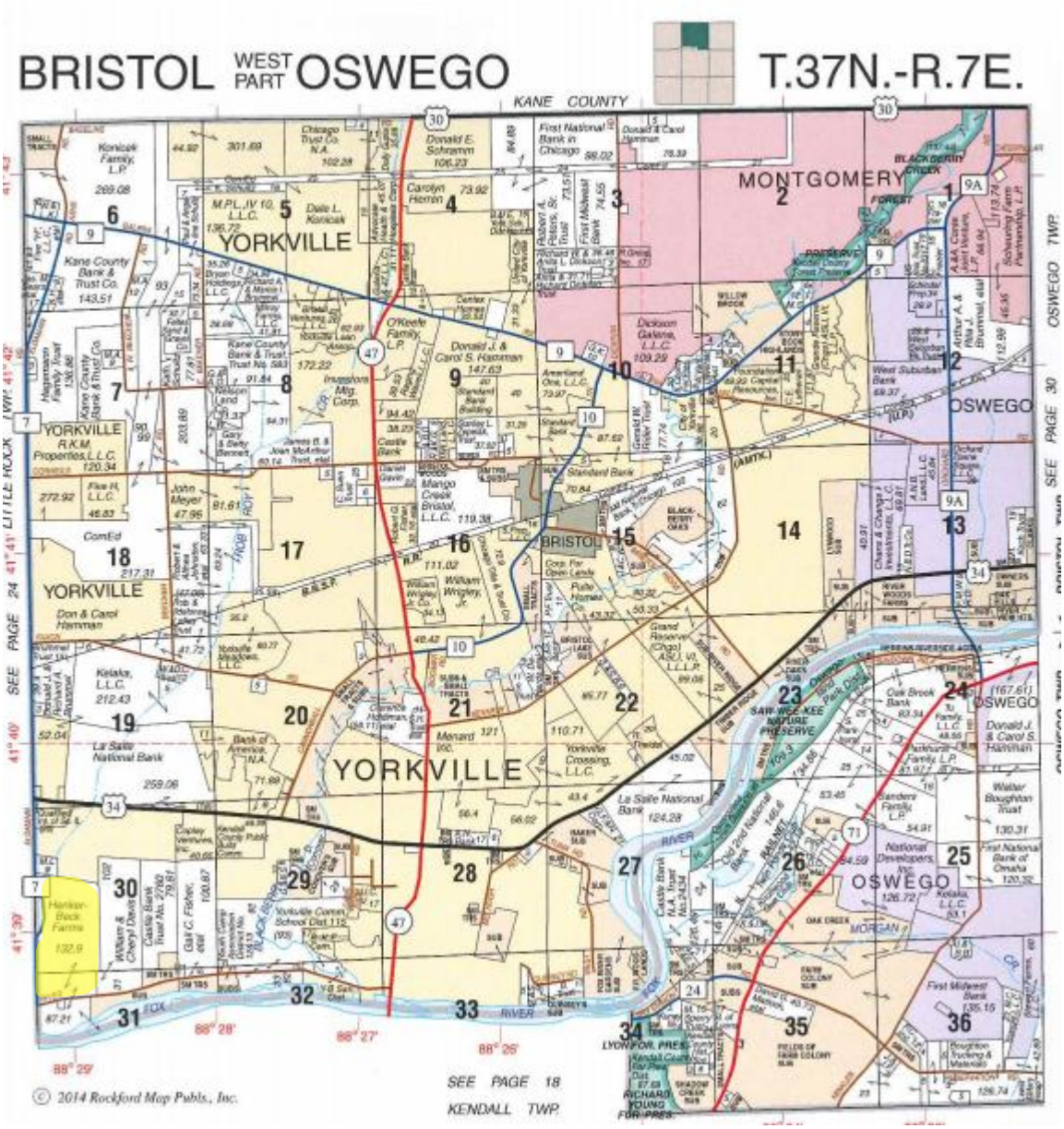
KE G Brummel 10

115 acres

Kendall County

Bristol Township

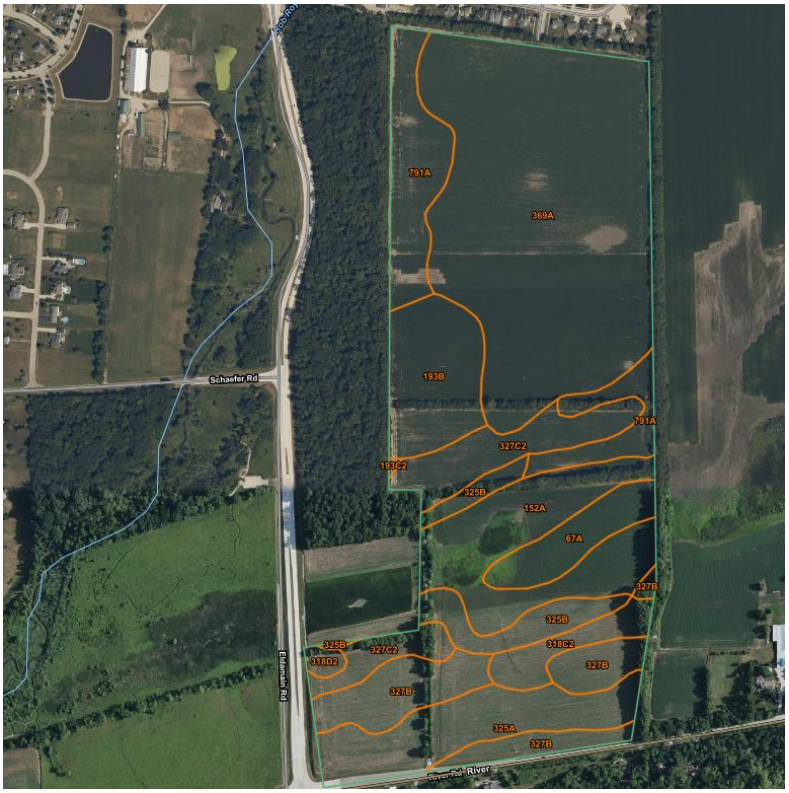
Section 30



Gerry Brummel

KE G Brummel 10
115 acres
Kendall County
Bristol Township
Section 30

67A	Harpster silty clay loam, 0 to 2 percent slopes	4.5	3.8%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	13.2	11.1%	.60 to 2.00 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	8.3	7.0%	.06 to 0.60 in/hr
193C2	Mayville silt loam, 5 to 10 percent slopes, eroded		0.1	0.1% .06 to 0.60 in/hr
318C2	Lorenzo loam, 4 to 6 percent slopes, eroded	3.2	2.7%	.60 to 2.00 in/hr
318D2	Lorenzo loam, 6 to 12 percent slopes, eroded	0.6	0.5%	.60 to 2.00 in/hr
325A	Dresden silt loam, 0 to 2 percent slopes	9.9	8.3%	.60 to 2.00 in/hr
325B	Dresden silt loam, 2 to 4 percent slopes	5.2	4.4%	.60 to 2.00 in/hr
327B	Fox silt loam, 2 to 4 percent slopes	10.3	8.6%	.60 to 2.00 in/hr
327C2	Fox silt loam, 4 to 6 percent slopes, eroded	8.7	7.2%	.60 to 2.00 in/hr
369A	Waupecan silt loam, 0 to 2 percent slopes	45.0	37.5%	.60 to 2.00 in/hr
791A	Rush silt loam, 0 to 2 percent slopes	10.7	8.9%	.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, April 04, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

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Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240080	G240081	G240082	G240083
	Scott Cherry 150 (Soil)	Scott Cherry 130 (Soil)	Scott Cherry 100 (Soil)	KE G Brummel 105 (Soil)
Ac-228	1.03	< 0.12^	1.42	1.26
Ra-228[1]	1.03	< 0.12^	1.42	1.26
Pb-214	0.80	0.95	0.97	0.87
Bi-214	1.01	0.82	0.90	0.80
Ra-226[2]	0.91	0.89	0.94	0.84
Total Radium[3]	1.93	< 1.01^	2.36	2.09

^ Peaks identified by GammaVision at known energies, but not matched to isotope.

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.

[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE G Brummel 10 (105) COUNTY: Kendall

ACREAGE: 115 TOWNSHIP: Bristol

SECTION: 30

FARMER: Gerry Brummel

ADDRESS:

PHONE #:

Source of biosolids

1 Aurora Lime

2 City of Naperville-pile 1

3 City of Naperville-pile 2

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Feb.24	0.012	0.07	1.034	0.036	0.012	0.121	0	0	0	0	0.020	
2	April.24	0.01	4.58	2.3	0.14	0.09	6.48	0.04	0.01	0.06	0.08		
3	April.24	0	1.94	0.97	0.06	0.04	2.75	0.02	0	0.03	0.03		
	TOTAL	0.02	6.59	4.3	0.24	0.14	9.35	0.06	0.01	0.09	0.11		pci/g
	%of LIMIT	0.2	2.6	0.5	0.2	0	1.9	0.1	0	1.1	0.7		

Background Radium	2.090	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.110	pci/g
% of Total Cumulative Limit	70.33	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	next page
Section Number	5	Township *(Number and Direction)*	T36-37N
Tillable Acres	131	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE G Brummel 5	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.61	+ / -	0	Radium-228	0.61	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/23/24	524.27	4	131	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

KE Brummel 5 PIN

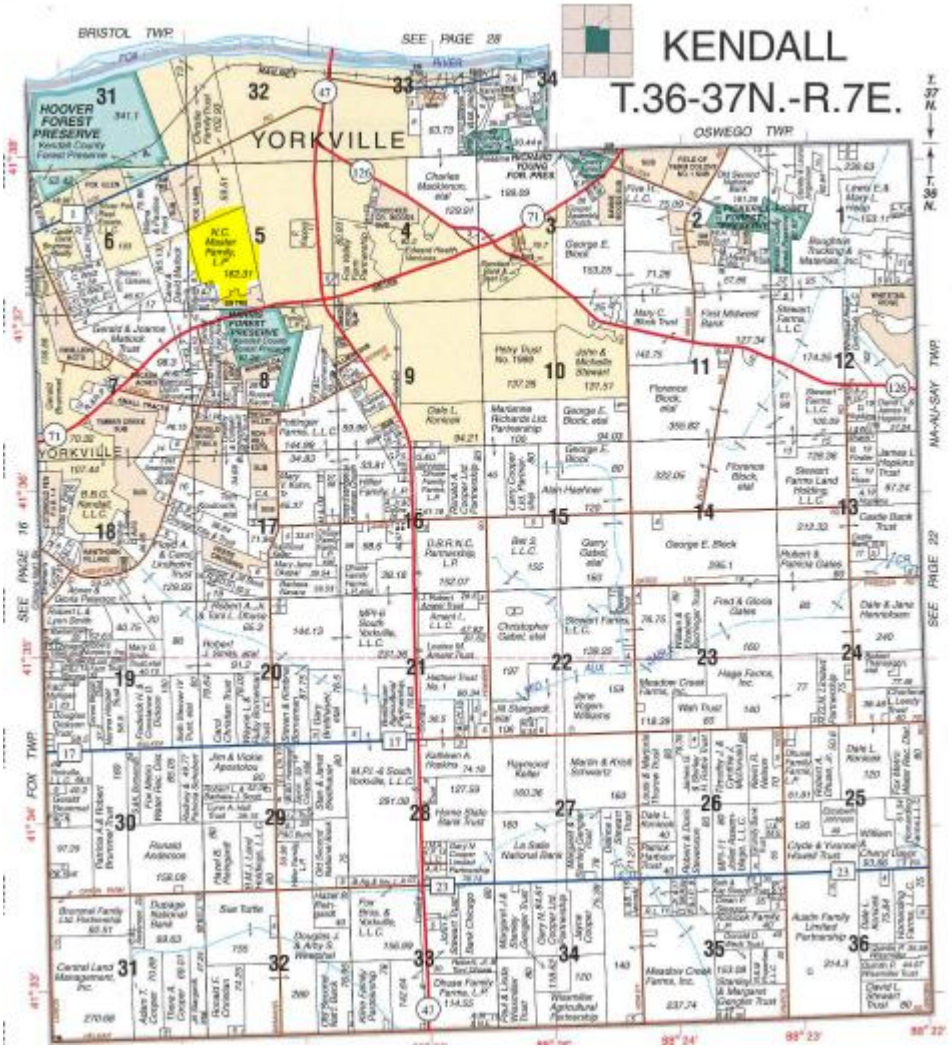
05-05-300-017

05-05-300-018

05-05-300-016

Gerry Brummel

KE Gerry Brummel 5
131 acres
Kendall County
Kendall Township
Section 5



Gerry Brummel

KE Gerry Brummel 5
131 acres
Kendall County
Kendall Township
Section 5

59A	Lisbon silt loam, 0 to 2 percent slopes 0.20 to 0.60 in/hr	12.8	9.6%
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: March 04, 2021
Workorder: 2101A73

Client Sample ID: KE Hatner 3
Lab ID: 2101A73-001 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 9:05 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.56	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.62	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Client Sample ID: KE Hatner 4
Lab ID: 2101A73-002 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 9:58 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.55	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.64	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Client Sample ID: KE Gbrummel 5
Lab ID: 2101A73-003 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 10:37 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.61	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.61	0		pCi/g	1	03/02/2021 12:45 PM	R130381

METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 131.59
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 5

Source of biosolids
1 Plainfield
2 Aurora Lime
3 Lasma Lagoon 28
4 Lasma Cell 5
5 Harlem
6 Glendale Heights
7 Naperville

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	12/1/2019	0.21	0.98	0.64	0.07	0.03	1.22	0.01	0.002	0.02	0.03				1975		269.79	
2	12/1/2020	0.007	0.026	0.534	0.025	0.007	0.064	0	0	0	0	0.005	6.25 pci/g			602.36	218.66	
3	21-May	0.02	4.39	5.03	0.48	0.78	7.4	0.12	0	0.1	0.14					3135.98	636.61	
4	21-May	0.010	2.000	2.840	0.190	0.450	4.000	0.1	0	0.05	0.06					1156.29	315.67	
3	Nov-21	0	0.34	0.39	0.03	0.07	0.68	0.01	0	0.01	0.01					225.03	50.18	
5	Nov-21	0.04	6.13	6.06	0.65	1.32	12.4	0.15	0.01	0.14	0.24					3843.44	922.42	
2	Nov-21	0.005	0.022	0.58	0.02	0.005	0.052	0	0	0	0	0.003	3.57 pci/g			821.23	243.17	
6	May-23	0	0.03	0.05	0	0	0.05	0	0	0	0				40		5.40	
7	May-23	0.02	9.08	4.35	0.3	0.2	13.18	0.07	0.01	0.12	0.16				5826.00		969.47	
2	Feb.23	0.01	0.059	0.88	0.03	0.01	0.103	0	0	0	0	0.017				1356.15	524.27	
	TOTAL	0.32	23.06	21.35	1.8	2.87	39.15	0.46	0.02	0.44	0.64	0.025	pci/g					
	%of LIMIT	3.2	9.2	2.4	1.8	0.3	7.8	0.5	0	5.5	4							

Background Radium	1.220	pci/g
Site Limit	2.220	pci/g
Cumulative Total to Date	1.245	pci/g
% of Total Cumulative Limit	56.08	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-15-100-002
Section Number	15	Township *(Number and Direction)*	T36-37N
Tillable Acres	65	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Santoro 3	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.65	+ / -	0	Radium-228	.10	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/23-2/26/24	371.96	5.7	65	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jul 30, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Santoro

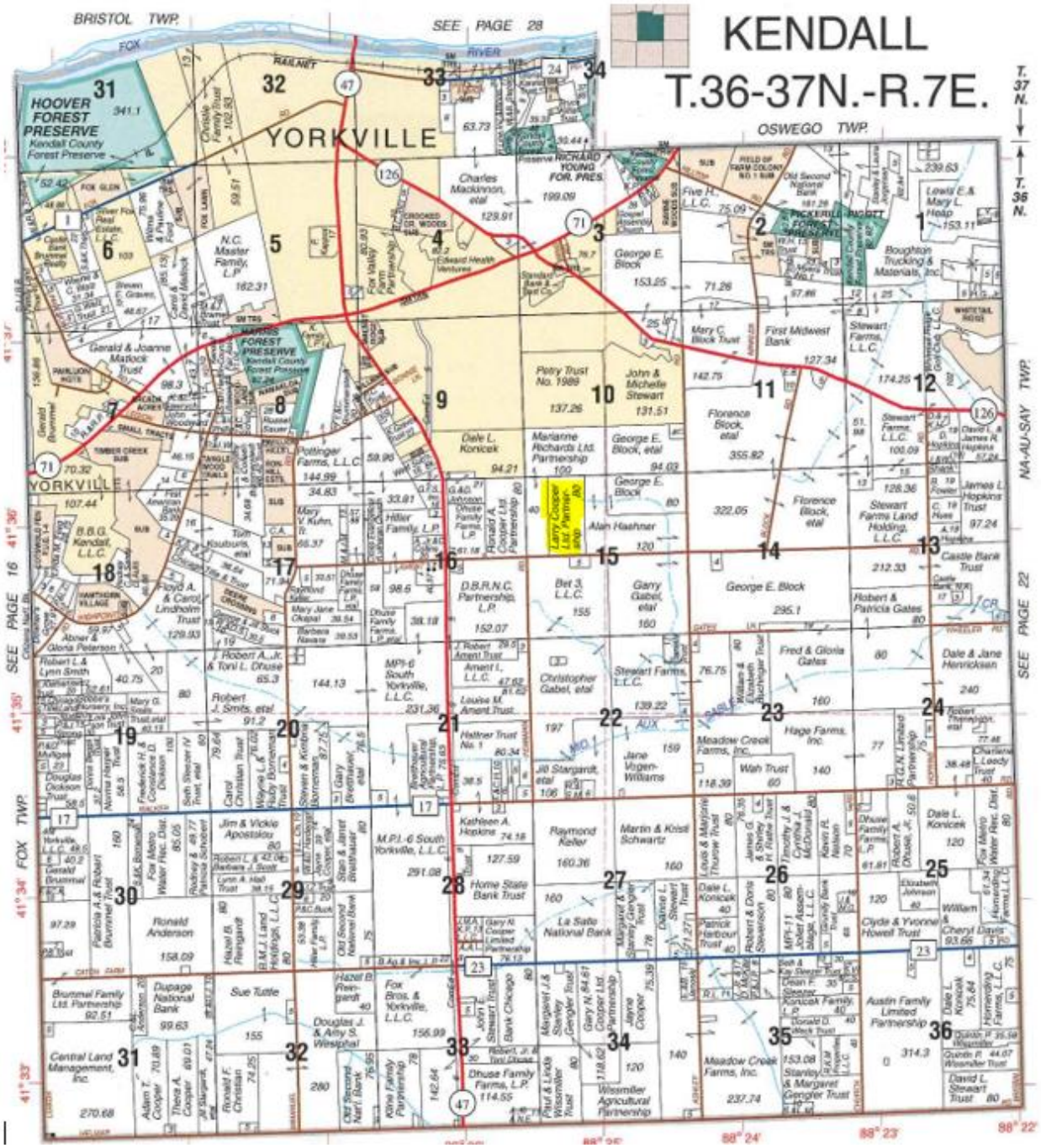
KE Santoro 3

65 acres

Kendall County

Kendall Town ship

Section 15



Santoro

KE Santoro 3

65 acres

Kendall County

Kendall Town ship

Section 15

59A	Lisbon silt loam, 0 to 2 percent slopes	15.4	18.6%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	12.7	15.3%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	3.8	4.6%	.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	9.9	11.9%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	25.6	30.9%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	8.2	9.9%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	7.3	8.8%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, August 07, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Santoro 3 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240171 is in Table 1. Stewart Spreading identified the sample as KE Santoro 3 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240171
	KE Santoro 3 (Soil)
Ac-228	< 0.10
Ra-228[1]	< 0.10
Pb-214	0.73
Bi-214	0.57
Ra-226[2]	0.65
Total Radium[3]	< 0.75

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Santoro 3
ACREAGE: 65
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 15

FARMER: Frank Santoro
ADDRESS: 2080 Simons Rd
Oswego, IL 60543
PHONE #:

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Feb.24	0.014	0.085	1.258	0.043	0.014	0.148	0	0	0	0	0.025	
TOTAL		0.01	0.09	1.26	0.04	0.01	0.15	0	0	0	0	0.025	pci/g
%of LIMIT		0.1	0	0.1	0	0	0	0	0	0	0		

Background Radium	0.750	pci/g
Site Limit	1.750	pci/g
Cumulative Total to Date	0.775	pci/g
% of Total Cumulative Limit	44.28	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-07-326-003
Section Number	7	Township *(Number and Direction)*	T36-37N
Tillable Acres	70	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE G Brummel 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.730	+ / -	0.140	Radium-228	0.935	+ / -	0.230

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AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/26/24	64.59	.92	70	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

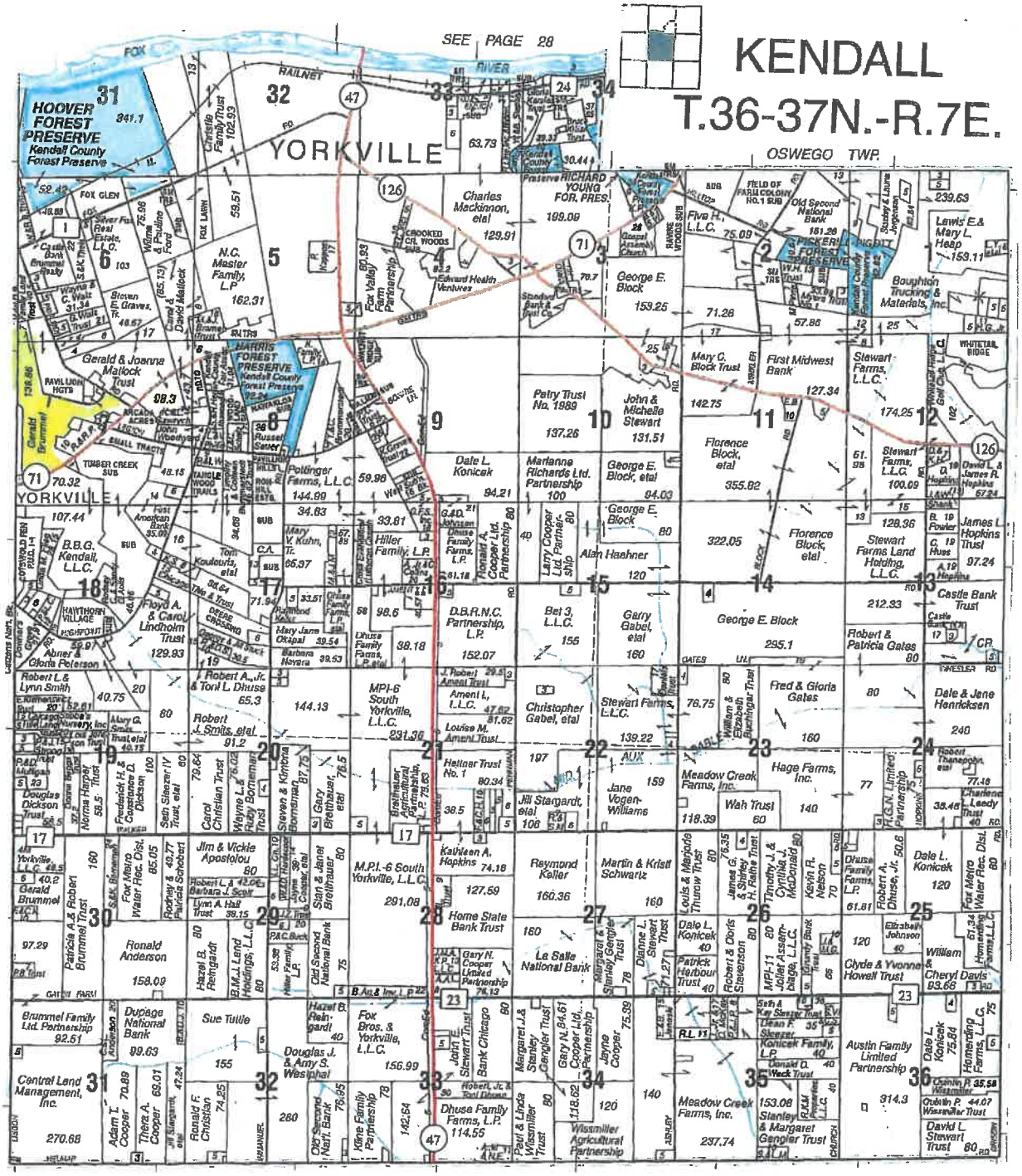
Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Gerry Brummel

KE Gerry Brummel 1

70 acres

Kenadall Township


KENDALL
T.36-37N.-R.7E.
SEE PAGE 28
OSWEGO TWP.
YORKVILLE
HOOVER FOREST PRESERVE
Kendall County Forest Preserve
HARRIS FOREST PRESERVE
Kendall County Forest Preserve
RICHARD YOUNG FOR. PRES.
FOX RIVER
RAILNET
Gerald Brummel
Gerald & Joanna Matlock Trust
Floyd A. & Carol Lindholm Trust
Abner & Gloria Peterson
Robert L. & Lynn Smith
Robert A., Jr. & Toni L. Dhuse
Robert J. Smits, etal
Douglas Dickson Trust
Carol Christian Trust
Jim & Vickie Apostolou
Ronald Anderson
Brummel Family Ltd. Partnership
Patricia A. & Robert Brummel Trust
Dupage National Bank
Sue Tuttle
Central Land Management, Inc.
Adam T. Cooper
Thera A. Cooper
Ronald F. Christian
Douglas J. & Amy S. Westphal
Old Second Nat'l Bank
Fox Bros. & Yorkville, L.L.C.
Kline Family Partnership
Dhuse Family Farms, L.P.
114.55
Paul & Linda Wissmiller Trust
Wissmiller Agricultural Partnership
Meadow Creek Farms, Inc.
237.74
Stanley & Margaret Gengler Trust
153.08
Austin Family Limited Partnership
314.3
Clyde & Yvonne Howell Trust
93.66
Cheryl Davis
Homestead Farms, L.L.C.
Dale L. Konicek
75.84
David L. Stewart Trust
60
Chaplin, P.
44.07
Wissmiller Trust
Chaplin, P.
35.58
Wissmiller
Dale L. Konicek
120
Robert A. Dhuse, Jr.
50.6
61.81
Dhuse Family Farms, L.P.
Fox Metro Water Rec. Dist.
80
Timothy J. & Cynthia J. McDonald
90
Kevin R. Nelson
70
Louis & Marjorie Thurow Trust
80
James G. & Shirley H. Rathe Trust
76.35
Dale L. Konicek
40
Patrick Herbour Trust
40
Robert & Doris Stevenson
80
MPI-11 Joliet Assemblage, L.L.C.
60
Seth A. Kay Siegler Trust
Dean P.
35
Konicek Family, L.P.
40
Donald D. Veck Trust
40
R.M.M. Properties, L.L.C.
40
Jayne Cooper
75.89
Gary N. 94.61 Cooper Ltd. Partnership
Margaret J. & Stanley Gengler Trust
Dianne L. Stewart Trust
71.27
La Salle National Bank
160
Raymond Keller
160.36
Martin & Kristi Schwartz
160
Gary N. Cooper Limited Partnership
76.13
Home State Bank Trust
127.59
Kathleen A. Hopkins
74.18
M.P.I.-6 South Yorkville, L.L.C.
291.08
Louise M. Ament Trust
Ament L., L.L.C.
47.62
81.62
J. Robert Ament Trust
29.5
Brethauer Agricultural Partnership, L.P.
73.63
Gary Brethauer, etal
Steven & Kimbra Bornsman
87.75
Mary Jane Okapal
39.54
Barbara Nevara
39.53
Diuse Family Farms, L.P. etal
Hiller Family, L.P.
98.6
98.18
Mary V. Kuhn, Tr.
65.37
Toni Koulouris, etal
Pollinger Farms, L.L.C.
144.99
59.98
Dale L. Konicek
94.21
Petry Trust No. 1989
137.26
Marianne Richards Ltd. Partnership
100
John & Michelle Stewart
131.51
George E. Block, etal
94.03
George E. Block
159.25
Charles Mackinnon, etal
129.91
199.09
Edward Health Ventures
82.2
Fox Valley Farm Partnership
80.93
N.C. Master Family, L.P.
162.31
Christie Family Trust
102.93
63.79
Kendall County
30.44
Standard Bank & Trust Co.
70.7
Five H., L.L.C.
75.09
Old Second National Bank
181.26
Gospel Assembly Church
Boughton Trucking & Materials, Inc.
239.63
Lewis E.& Mary L. Heap
153.11
Mary C. Block Trust
142.75
First Midwest Bank
127.34
Florence Block, etal
355.82
Florence Block, etal
322.05
Stewart Farms, L.L.C.
174.25
100.09
Stewart Farms Land Holding, L.L.C.
128.36
97.24
James L. Hopkins Trust
David L. & James R. Hopkins
57.24
Castle Bank Trust
212.33
George E. Block
295.1
Robert & Patricia Gates
80
Fred & Gloria Gates
160
Dale & Jane Henricksen
240
Hage Farms, Inc.
77
Meadow Creek Farms, Inc.
118.39
Wah Trust
60
Jane Vogen-Williams
159
Jill Stargardt, etal
106
Christopher Gabel, etal
Stewart Farms, L.L.C.
139.22
Garry Gabel, etal
160
Bet 3, L.L.C.
155
Alan Haahner
120
Larry Cooper Ltd. Partnership
80
Ronald A. Cooper Ltd. Partnership
80
D.B.R.N.C. Partnership, L.P.
152.07
Helmer Trust No. 1
80.34
Diuse Family Farms, L.P.
61.18
Timber Creek Sub
Yorkville
70.32
107.44
B.B.G. Kendall, L.L.C.
Hawthorn Village
Arcadia Acres
Pavilion Hgts
Wood Trails
Deere Crossing
Hoshefont
Harris Forest Preserve
Kendall County Forest Preserve
Russell Sweet
Fox Glen
Silver Fox Estate, L.L.C.
Cassie Bank Brummel Trust
Wilma A. Pontaline
Brown Graves, Tr.
Wayne & C. Walz
C. Walz Trust
Carol & David Matlock
Christie Family Trust
Edward Health Ventures
Standard Bank & Trust Co.
Kendall County
Gospel Assembly Church
Five H., L.L.C.
Old Second National Bank
Boughton Trucking & Materials, Inc.
Lewis E.& Mary L. Heap
Mary C. Block Trust
First Midwest Bank
Stewart Farms, L.L.C.
Florence Block, etal
Stewart Farms Land Holding, L.L.C.
James L. Hopkins Trust
David L. & James R. Hopkins
Castle Bank Trust
George E. Block
Robert & Patricia Gates
Fred & Gloria Gates
Dale & Jane Henricksen
Hage Farms, Inc.
Meadow Creek Farms, Inc.
Wah Trust
Jane Vogen-Williams
Jill Stargardt, etal
Christopher Gabel, etal
Stewart Farms, L.L.C.
Garry Gabel, etal
Bet 3, L.L.C.
Alan Haahner
Larry Cooper Ltd. Partnership
Ronald A. Cooper Ltd. Partnership
D.B.R.N.C. Partnership, L.P.
Helmer Trust No. 1
Diuse Family Farms, L.P.
Timber Creek Sub
Yorkville
B.B.G. Kendall, L.L.C.
Floyd A. & Carol Lindholm Trust
Abner & Gloria Peterson
Robert L. & Lynn Smith
Robert A., Jr. & Toni L. Dhuse
Robert J. Smits, etal
Douglas Dickson Trust
Carol Christian Trust
Jim & Vickie Apostolou
Ronald Anderson
Brummel Family Ltd. Partnership
Patricia A. & Robert Brummel Trust
Dupage National Bank
Sue Tuttle
Central Land Management, Inc.
Adam T. Cooper
Thera A. Cooper
Ronald F. Christian
Douglas J. & Amy S. Westphal
Old Second Nat'l Bank
Fox Bros. & Yorkville, L.L.C.
Kline Family Partnership
Dhuse Family Farms, L.P.
114.55
Paul & Linda Wissmiller Trust
Wissmiller Agricultural Partnership
Meadow Creek Farms, Inc.
237.74
Stanley & Margaret Gengler Trust
153.08
Austin Family Limited Partnership
314.3
Clyde & Yvonne Howell Trust
93.66
Cheryl Davis
Homestead Farms, L.L.C.
Dale L. Konicek
75.84
David L. Stewart Trust
60
Chaplin, P.
44.07
Wissmiller Trust
Chaplin, P.
35.58
Wissmiller
Dale L. Konicek
120
Robert A. Dhuse, Jr.
50.6
61.81
Dhuse Family Farms, L.P.
Fox Metro Water Rec. Dist.
80
Timothy J. & Cynthia J. McDonald
90
Kevin R. Nelson
70
Louis & Marjorie Thurow Trust
80
James G. & Shirley H. Rathe Trust
76.35
Dale L. Konicek
40
Patrick Herbour Trust
40
Robert & Doris Stevenson
80
MPI-11 Joliet Assemblage, L.L.C.
60
Seth A. Kay Siegler Trust
Dean P.
35
Konicek Family, L.P.
40
Donald D. Veck Trust
40
R.M.M. Properties, L.L.C.
40
Jayne Cooper
75.89
Gary N. 94.61 Cooper Ltd. Partnership
Margaret J. & Stanley Gengler Trust
Dianne L. Stewart Trust
71.27
La Salle National Bank
160
Raymond Keller
160.36
Martin & Kristi Schwartz
160
Gary N. Cooper Limited Partnership
76.13
Home State Bank Trust
127.59
Kathleen A. Hopkins
74.18
M.P.I.-6 South Yorkville, L.L.C.
291.08
Louise M. Ament Trust
Ament L., L.L.C.
47.62
81.62
J. Robert Ament Trust
29.5
Brethauer Agricultural Partnership, L.P.
73.63
Gary Brethauer, etal
Steven & Kimbra Bornsman
87.75
Mary Jane Okapal
39.54
Barbara Nevara
39.53
Diuse Family Farms, L.P. etal
Hiller Family, L.P.
98.6
98.18
Mary V. Kuhn, Tr.
65.37
Toni Koulouris, etal
Pollinger Farms, L.L.C.
144.99
59.98
Dale L. Konicek
94.21
Petry Trust No. 1989
137.26
Marianne Richards Ltd. Partnership
100
John & Michelle Stewart
131.51
George E. Block, etal
94.03
George E. Block
159.25
Charles Mackinnon, etal
129.91
199.09
Edward Health Ventures
82.2
Fox Valley Farm Partnership
80.93
N.C. Master Family, L.P.
162.31
Christie Family Trust
102.93
63.79
Kendall County
30.44
Standard Bank & Trust Co.
70.7
Five H., L.L.C.
75.09
Old Second National Bank
181.26
Gospel Assembly Church
Boughton Trucking & Materials, Inc.
239.63
Lewis E.& Mary L. Heap
153.11
Mary C. Block Trust
142.75
First Midwest Bank
127.34
Florence Block, etal
355.82
Florence Block, etal
322.05
Stewart Farms, L.L.C.
174.25
100.09
Stewart Farms Land Holding, L.L.C.
128.36
97.24
James L. Hopkins Trust
David L. & James R. Hopkins
Castle Bank Trust
212.33
George E. Block
295.1
Robert & Patricia Gates
80
Fred & Gloria Gates
160
Dale & Jane Henricksen
240
Hage Farms, Inc.
77
Meadow Creek Farms, Inc.
118.39
Wah Trust
60
Jane Vogen-Williams
159
Jill Stargardt, etal
106
Christopher Gabel, etal
Stewart Farms, L.L.C.
139.22
Garry Gabel, etal
160
Bet 3, L.L.C.
155
Alan Haahner
120
Larry Cooper Ltd. Partnership
80
Ronald A. Cooper Ltd. Partnership
80
D.B.R.N.C. Partnership, L.P.
152.07
Helmer Trust No. 1
80.34
Diuse Family Farms, L.P.
61.18

Gerry Brummel

KE Gerry Brummel 1
70 acres
Kendall County
Kendall Township
Section 7

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	25.6	17.6%
224D3	Strawn clay loam, 10 to 18 percent slopes, severely eroded (0.06 to 0.60 in/hr)	0.4	0.3%
325B	Dresden silt loam, 2 to 4 percent slopes (0.60 to 2.00 in/hr)	12.0	8.2%
330A	Peotone silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	1.7	1.2%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **16101004**

Date Reported: **11/11/2016**

CLIENT: Stewart Spreading, Inc
Collection Date: 7/2/2016 12:00:00 PM
Project: KE Jerry Brummel 1
Lab ID: 16101004-001
Matrix: SOLID
Client Sample ID KE Jerry Brummel 1

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.730	0.0342		pCi/g-dry	± 0.140	1	11/10/2016 4:10:00 PM
Radium-228	0.935	0.0456		pCi/g-dry	± 0.230	1	11/10/2016 4:10:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 70
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

Source of biosolids
1 LASMA Lagoon 28
2 Aurora
3 Plainfield
4 Marathon lag 25 and cells 2,3,4
5 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
40 acres 1	8/1/2016	0.1	8.62	8.63	0.8	1.62	15.06	0.1	0.01	0.1	0.38		
40 acres 2	11/1/2016	0.018	0.054	0.97	0.032	0.021	0.186	0	0	0	0	0.009	pci/g
40 acres 3	5/1/2018	0.047	2.78	1.45	0.14	0.06	3.69	0.01	0.005	0.04	0.08		
40 acres 3	12/1/2019	0.041	1.950	1.270	0.150	0.050	2.440	0.01	0.004	0.03	0.05		
40 acres 2	Nov-20	0.024	0.095	1.93	0.089	0.024	0.231	0	0	0	0	0.019	6.25 pci/g
40 acres 1	May-21	0.04	8.92	10.23	0.98	1.59	15.04	0.24	0.01	0.2	0.29		
40 acres 1	Nov-21	0.1	8.56	9.89	0.85	1.68	17.27	0.19	0.01	0.19	0.35		
70 acres 4	May-23	0.06	10.25	14.43	0.88	1.98	17.387	0.06	0.01	0.21	0.27		
70 acres 5	May-23	0	0.12	0.06	0	0	0.14	0	0	0	0		
2	Feb.24	0.002	0.014	0.202	0.007	0.002	0.024	0	0	0	0	0.004	
	TOTAL	0.43	41.35	48.86	3.92	7.03	71.44	0.61	0.05	0.77	1.42	0.032	pci/g
	%of LIMIT	4.3	16.5	5.4	3.9	0.7	14.3	0.6	0.1	9.6	8.8		

4.7 pci/g

Background Radium	1.665	pci/g
Site Limit	2.665	pci/g
Cumulative Total to Date	1.697	pci/g
% of Total Cumulative Limit	63.67	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	06-10-200-003
Section Number	10	Township *(Number and Direction)*	T36N
Tillable Acres	230	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Scott Cherry 75

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.64	+/-	0	Radium-228	0.79	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
2/19/24	35	.15	230	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 7/30/2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Scott Cherry

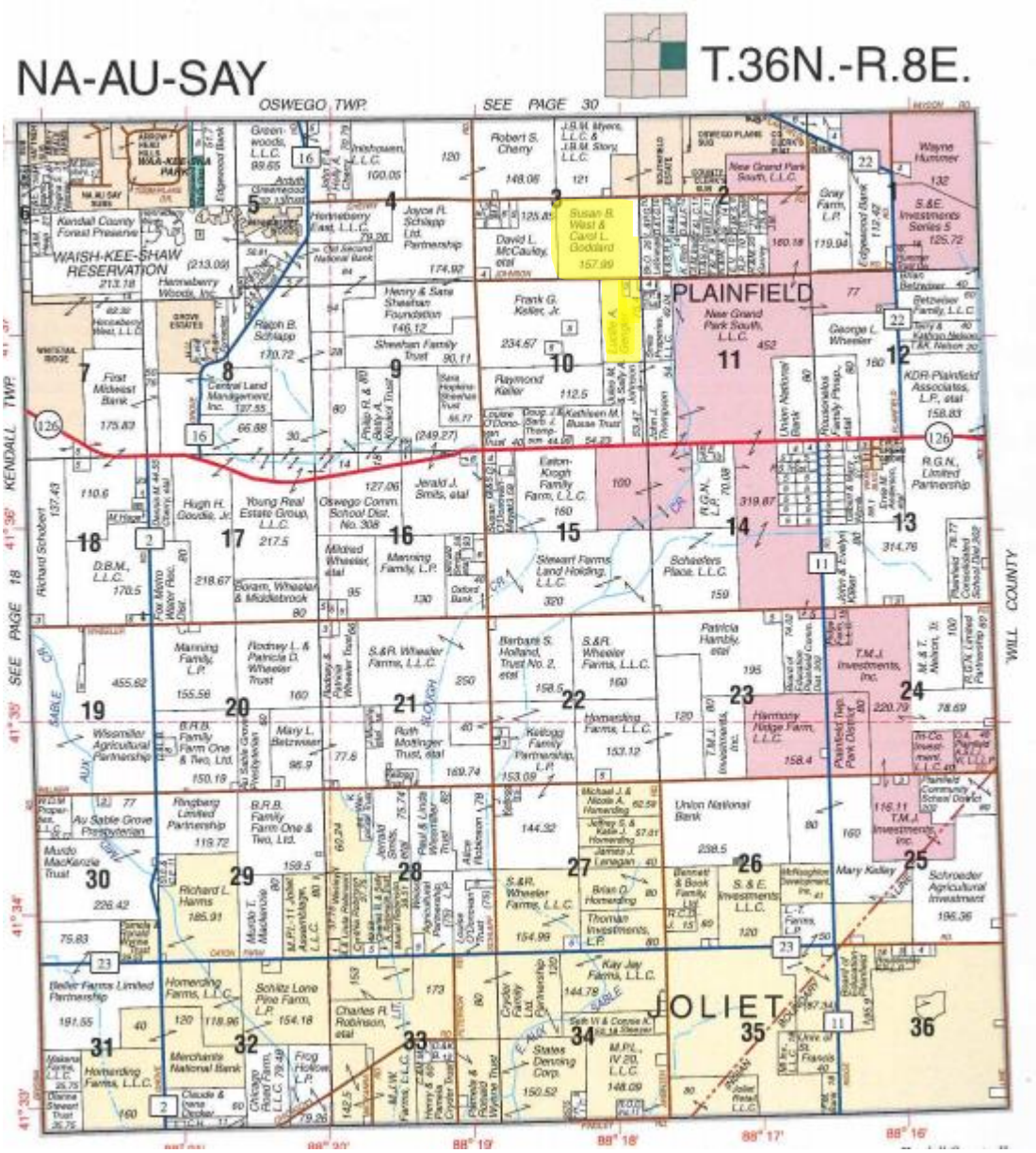
KE Cherry 75, KE Cherry 155

230 acres

Kendall County

Na-Au-Say Township

Section 10


NA-AU-SAY
T.36N.-R.8E.
OSWEGO TWP.
SEE PAGE 30
SEE PAGE 18
KENDALL TWP.
WILL COUNTY
PLAINFIELD
JOLIET
WAISH-KEE-SHAW RESERVATION
Kendall County Forest Preserve
Au Sable Grove Presbyterian
Merchants National Bank
Union National Bank
Oswego Comm. School Dist. No. 308
Plainfield Community School District
Schroeder Agricultural Investment
Harmony Ridge Farm, L.L.C.
Stewart Farms Land Holding, L.L.C.
Eaton-Krogh Family Farms, L.L.C.
Homerding Farms, L.L.C.
S.&R. Wheeler Farms, L.L.C.
Wismiller Agricultural Partnership
Schultz Lone Pine Farm, L.P.
Frog Hollow L.P.
Kay Jay Farms, L.L.C.
Thomas Investments, L.P.
Kellogg Family Partnership, L.P.
Manning Family, L.P.
Ringberg Limited Partnership
Belter Farms Limited Partnership
Mudo MacKenzie Trust
Richard L. Harms
Murdo T. MacKenzie
B.R.B. Family Farm One & Two, Ltd.
Mary L. Betzwieser
Ruth Motzinger Trust, etal
Barbara S. Holland, Trust No. 2, etal
Susan R. West & Carol L. Goddard
Robert S. Cherry
David L. McCauley, etal
Joyce R. Schlapp Ltd. Partnership
Henry & Sara Sheehan Foundation
Sheehan Family Trust
Frank G. Keller, Jr.
Raymond Keller
Ralph B. Schlapp
Central Land Management, Inc.
First Midwest Bank
Hugh H. Goudie, Jr.
Young Real Estate Group, L.L.C.
Jerald J. Smits, etal
Milo M. & Sally A. Johnson
Kathleen M. Busse Trust
Louise O'Donovan Trust
Susan O'Donovan Trust
Edward M. Cherry, etal
Philip R. & Betty A. Moulded Trust
Sara Hopkins-Sheehan Trust

Scott Cherry Scott Cherry 75 acres

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	2.9	2.0%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	7.0	4.9%	0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	19.9	13.9%	0.20 to 0.60 in/hr
442A	Mundelein silt loam, 0 to 2 percent slopes	4.2	2.9%	0.60 to 2.00 in/hr
443A	Barrington silt loam, 0 to 2 percent slopes	1.7	1.2%	0.60 to 2.00 in/hr
443B	Barrington silt loam, 2 to 4 percent slopes	5.9	4.1%	0.60 to 2.00 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	3.9	2.8%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	73.9	51.6%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	11.2	7.8%	0.06 to 0.20 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	12.6	8.8%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, February 21, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Scott Cherry 230 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240002 is in Table 1. Stewart Spreading identified the sample as Scott Cherry 230 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240002
	Scott Cherry 230 (Soil)
Ac-228	0.79
Ra-228[1]	0.79
Pb-214	0.64
Bi-214	0.65
Ra-226[2]	0.64
Total Radium[3]	1.43

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Scott Cherry 75
ACREAGE: 68
COUNTY: Kendall
TOWNSHIP: Na-Au-Say
SECTION: 10

FARMER: Scott Cherry
ADDRESS: 975 E. 22nd St.
Wheaton, IL 60187

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Jan-24	0.009	0.053	0.792	0.027	0.009	0.093	0	0	0.00	0	0.0160				692.83	244.64
1	Feb.24	0.001	0.01	0	0.004	0.001	0.01	0	0	0.00	0	0.0020				87.5	35
TOTAL		0.01	0.06	0.9	0.03	0.01	0.11	0	0	0	0	0.018	pci/g				
%of LIMIT		0.1	0	0.1	0	0	0	0	0	0	0						

1	Background Radium	1.430	pci/g
2	Site Limit	2.430	pci/g
3	Cumulative total to Date	1.448	pci/g
4	% of Total Cumulative Limit	59.58	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 150

6.) Size of Area Where Lime is to be Used: 136 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

12-13-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 130

6.) Size of Area Where Lime is to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

12-13-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 100

6.) Size of Area Where Lime is to be Used: 115 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

12-13-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Rd Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 10

6.) Size of Area Where Lime is to be Used: 115 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Bonnell 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Rd Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 5

6.) Size of Area Where Lime is to be Used: 131 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied Approx 1400 wet tons

Years Applied 2020 and 2021

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Bonnell 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 9, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 3

6.) Size of Area Where Lime is to be Used: 65 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

1-9-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 1

6.) Size of Area Where Lime Residuals are to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 850 wet tons

Years Applied 2020

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Bonnell 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: December 13, 2023

2.) Name of User: Scott Cherry

3.) Address of User: 975 East 22nd St. Wheaton, IL 60187

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Cherry 75

6.) Size of Area Where Lime is to be Used: 68 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Robert Stewart Jr 12-13-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-31-200-012,05-31-200-013
Section Number	31	Township *(Number and Direction)*	T36-37N
Tillable Acres	93	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Jim Brummel 3	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.90	+/-	0	Radium-228	1.49	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/13/24	526.55	5.7	93	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1090

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

LRM1091

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Mar-24**

Biosolids Field Record

KE Jim Brummel 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	163.42	35.92	58.70
3/13/2024	3/13/2024	City of Aurora - Lime	917.89	50.97	467.85
Total			1081.31		526.55

Biosolids Field Record

KE Gerry Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	938.25	35.92	337.02
Total			938.25		337.02

Biosolids Field Record

KE Jim Brummel 2 (24)

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/4/2024	3/13/2024	City of Aurora - Lime	260.91	35.92	93.72
Total			260.91		93.72

Biosolids Field Record

KE Seth Sleezer 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/13/2024	3/13/2024	City of Aurora - Lime	479.45	50.97	244.38
Total			479.45		244.38

Biosolids Field Record

KE Swenson 25

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/13/2024	3/19/2024	City of Aurora - Lime	250.11	50.97	127.48
3/19/2024	3/19/2024	City of Aurora - Lime	586.31	44.71	262.14
Total			836.42		389.62

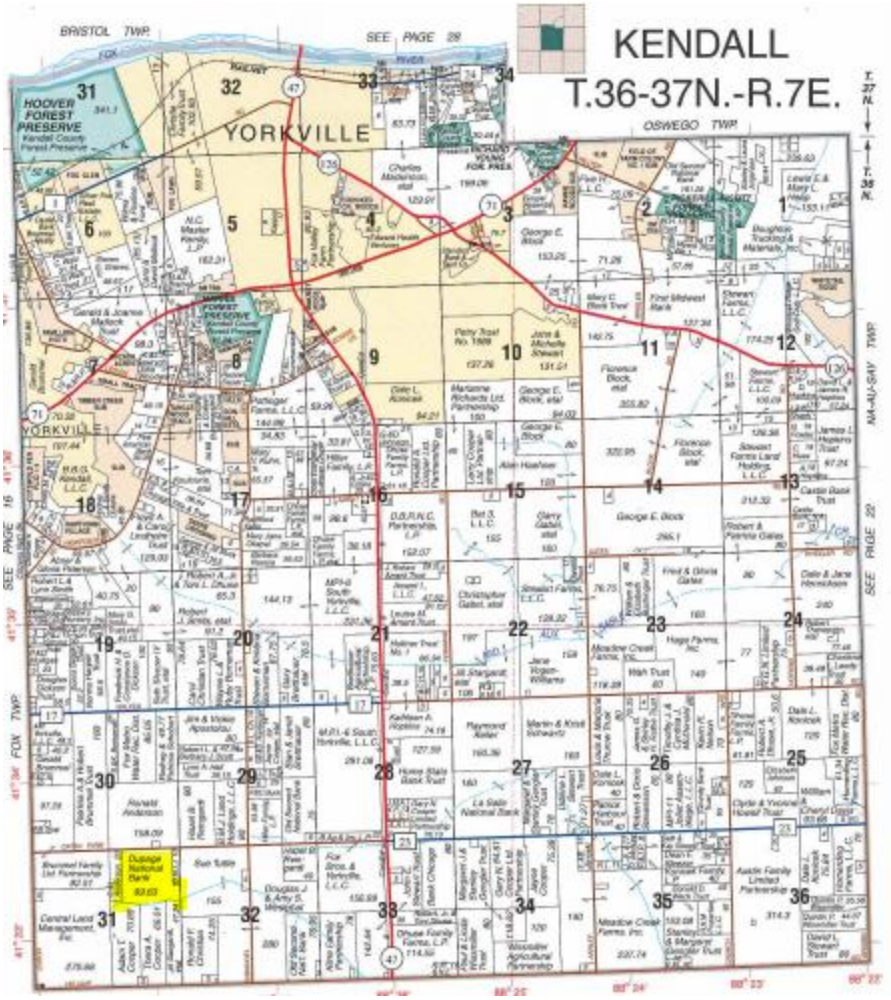
Biosolids Field Record

KE G Brummel 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
3/19/2024	3/19/2024	City of Aurora - Lime	194.11	44.71	86.79
Total			194.11		86.79

Jim Brummel

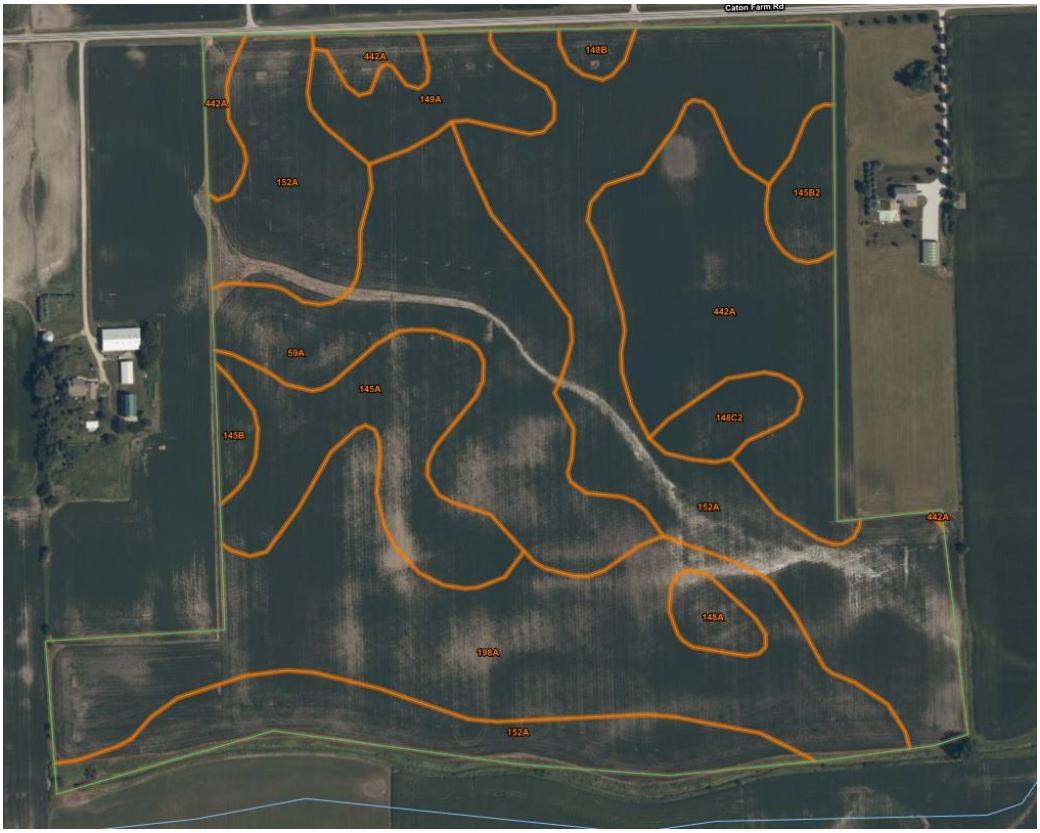
KE J Brummel 3
93 acres
Kendall County
Kendall Township
Section 31



Jim Brummel

KE Jim Brummel 3
93 Acres
Kendall County
Kendall Township
Section 31

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr
59A	Lisbon silt loam, 0 to 2 percent slopes	13.2	13.8%	0.20 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	7.3	7.7%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	0.7	0.8%	0.06 to 0.60 in/hr
148A	Proctor silt loam, 0 to 2 percent slopes	1.0	1.1%	0.60 to 2.00 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	0.6	0.6%	0.20 to 0.60 in/hr
148C	Proctor silt loam, 5 to 10 percent slopes, eroded	1.5	1.6%	0.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	0.7	3.4%	3.6 60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	32.4	33.8%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991
consult@rssi.us

Friday, April 01, 2022

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551
USA

greg@stewartspreading.com

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for our sample numbers G220061-2 is in Table 1. Stewart Spreading identified the samples as KE Jim Brummel and KE Fem Dell. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID	
	G220061	G220062
	KE Jim Brummel	KE Fem Dell
Ac-228	1.49	1.27
Ra-228[1]	1.49	1.27
Pb-214	< 0.06^	< 0.07^
Bi-214	0.90	0.98
Ra-226[2]	0.90	0.98
Total Radium[3]	2.39	2.24

NOTES
^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant photons represent the concentrations of these radionuclides. The successful use of surrogates depends upon the radionuclides in each series being in equilibrium.

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is authorized by Illinois Emergency Management Agency License No. IL-01429-01 and accredited to the ISO/IEC 17025:2017 standard by PJLA under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761 in accordance with the [illegible]d C1402-17.

ilac-MRA
PJLA Testing Accreditation #101315

LRM1096

METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 3
ACREAGE: 93
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 31

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Metal Loadings in Pounds per Acr

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Vulcan
3 City of Naperville-pile 1
4 City of Naperville-pile 2
5 DuPage
6 Aurora Lime
7 Plainfield

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April 2021	0.04	7.62	8.88	0.86	1.39	13.02	0.23	0	0.18	0.27					2422.09	489.27
2	April 2021	0.02	3.19	4.53	0.3	0.71	6.39	0.16	0	0.07	0.1					1299.01	354.63
3	December 2021	0.01	4.57	2.14	0.12	0.09	6.02	0.03	0	0.05	0.06				1798		302.25
4	December 2021	0	3	1.39	0.08	0.06	4.12	0.02	0	0.04	0.04				1370		214.01
5	December 2021	0	0.4	0.25	0.02	0.02	0.52	0	0	0	0.01				200		26.15
6	December 2021	0.001	0.005	0.128	0.004	0.001	0.012	0	0	0	0	0.001				126.8	37.91
7	May-23	0.038	2.48	1.28	0.15	0.04	3.54	0.08	0.004	0.08	0.08				4062		453.50
1	Nov.23	0.02	3.38	3.74	0.33	0.85	7.14	0.02	0	0.08	0.14					1492.49	376.11
6	March.24	0.014	0.084	1.245	0.043	0.014	0.146	0	0	0	0	0.0250	8.5 pci/g			1081.31	526.55
3	April.24	0	2.46	1.23	0.08	0.05	3.49	0.02	0	0.03	0.04				1320.00		209.57
4	April.24	0	1.04	0.5	0.03	0.02	1.38	0.01	0	0.01	0.02				606.00		96.72
	Cumulative Total	0.14	28.23	25.31	2.02	3.25	45.78	0.57	0	0.54	0.76	0.026					
	%of LIMIT	1.4	11.3	2.8	2	0.3	9.2	0.6	0	6.8	4.7						

1	Background Radium	2.390	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.416	pci/g
4	% of Total Cumulative Limit	80.53	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

LRM1097

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-07-326-003
Section Number	7	Township *(Number and Direction)*	T36-37N
Tillable Acres	70	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Gerry Brummel 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.730	+ / -	0.140	Radium-228	0.935	+ / -	0.230

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/13/24	337.02	4.8	70	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

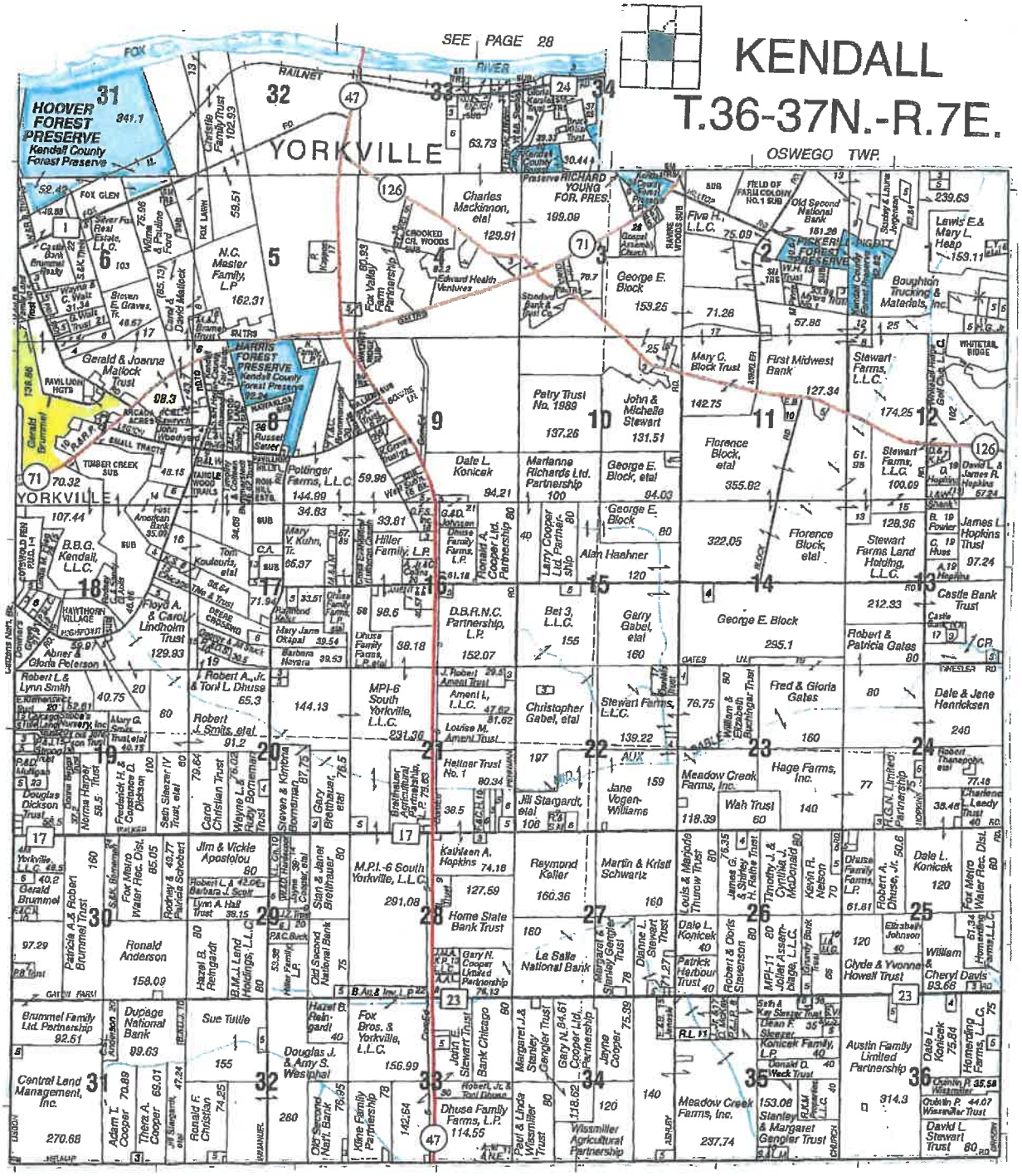
Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Gerry Brummel

KE Gerry Brummel 1

70 acres

Kenadall Township



LRM1099

Gerry Brummel

KE Gerry Brummel 1
70 acres
Kendall County
Kendall Township
Section 7

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	25.6	17.6%
224D3	Strawn clay loam, 10 to 18 percent slopes, severely eroded (0.06 to 0.60 in/hr)	0.4	0.3%
325B	Dresden silt loam, 2 to 4 percent slopes (0.60 to 2.00 in/hr)	12.0	8.2%
330A	Peotone silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	1.7	1.2%
356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **16101004**

Date Reported: **11/11/2016**

CLIENT: Stewart Spreading, Inc
Collection Date: 7/2/2016 12:00:00 PM
Project: KE Jerry Brummel 1
Lab ID: 16101004-001
Matrix: SOLID
Client Sample ID KE Jerry Brummel 1

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.730	0.0342		pCi/g-dry	± 0.140	1	11/10/2016 4:10:00 PM
Radium-228	0.935	0.0456		pCi/g-dry	± 0.230	1	11/10/2016 4:10:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 70
FARMER: Gerry Brummel
ADDRESS:
PHONE #:

COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

Source of biosolids
1 LASMA Lagoon 28
2 Aurora
3 Plainfield
4 Marathon lag 25 and cells 2,3,4
5 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
40 acres 1	8/1/2016	0.1	8.62	8.63	0.8	1.62	15.06	0.1	0.01	0.1	0.38		
40 acres 2	11/1/2016	0.018	0.054	0.97	0.032	0.021	0.186	0	0	0	0	0.009	pci/g
40 acres 3	5/1/2018	0.047	2.78	1.45	0.14	0.06	3.69	0.01	0.005	0.04	0.08		
40 acres 3	12/1/2019	0.041	1.950	1.270	0.150	0.050	2.440	0.01	0.004	0.03	0.05		
40 acres 2	Nov-20	0.024	0.095	1.93	0.089	0.024	0.231	0	0	0	0	0.019	6.25 pci/g
40 acres 1	May-21	0.04	8.92	10.23	0.98	1.59	15.04	0.24	0.01	0.2	0.29		
40 acres 1	Nov-21	0.1	8.56	9.89	0.85	1.68	17.27	0.19	0.01	0.19	0.35		
70 acres 4	May-23	0.06	10.25	14.43	0.88	1.98	17.387	0.06	0.01	0.21	0.27		
70 acres 5	May-23	0	0.12	0.06	0	0	0.14	0	0	0	0		
2	Feb.24	0.002	0.014	0.202	0.007	0.002	0.024	0	0	0	0	0.004	8.5 pci/g
2	March.24	0.012	0.071	1.058	0.037	0.012	0.124	0	0	0	0	0.021	8.5 pci/g
	TOTAL	0.44	41.43	50.12	3.97	7.04	71.59	0.61	0.05	0.77	1.42	0.053	pci/g
	%of LIMIT	4.4	16.6	5.6	4	0.7	14.3	0.6	0.1	9.6	8.8		

Background Radium	1.665	pci/g
Site Limit	2.665	pci/g
Cumulative Total to Date	1.718	pci/g
% of Total Cumulative Limit	64.46	%

4.7 pci/g

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-07-428-001,05-07-426-003
Section Number	7	Township *(Number and Direction)*	T36-37N
Tillable Acres	25	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Jim Brummel 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.71	+ / -	0	Radium-228	0.70	+ / -	0

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/13/24	93.72	3.7	25	4.9	3.6

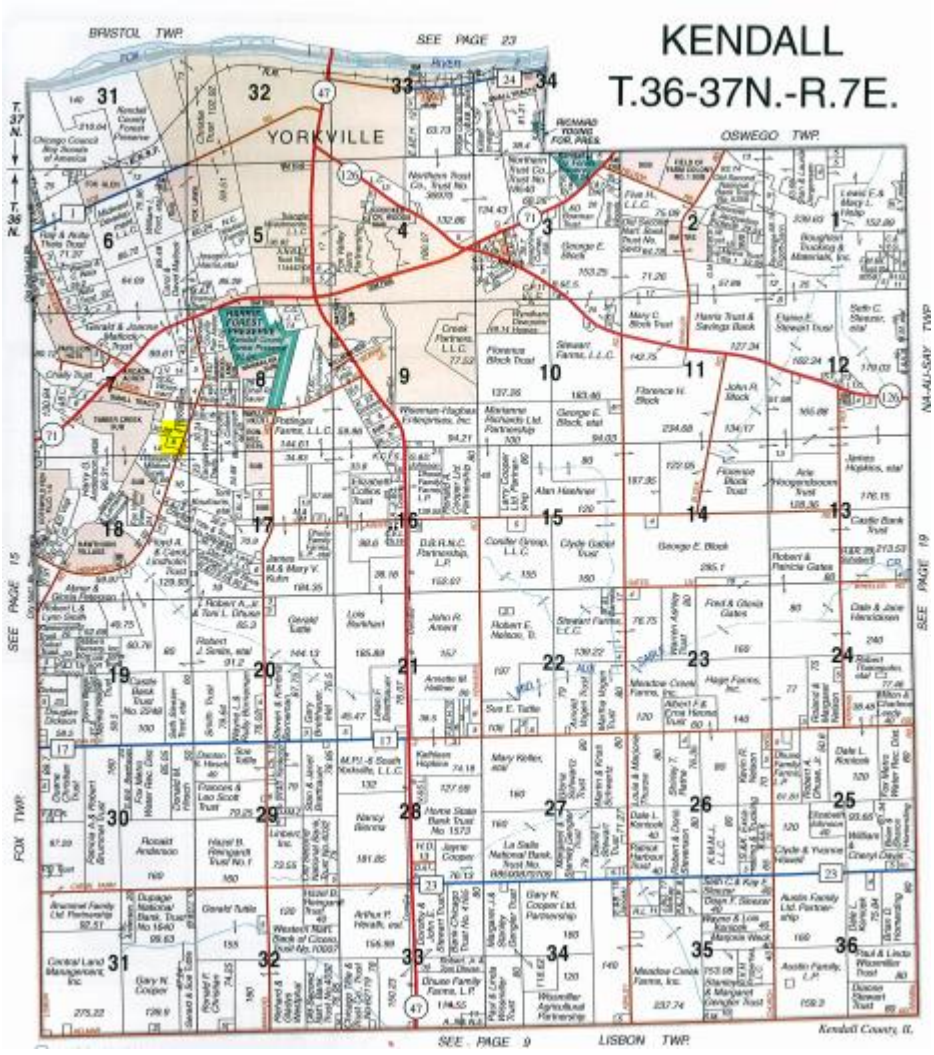
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Jim Brummel

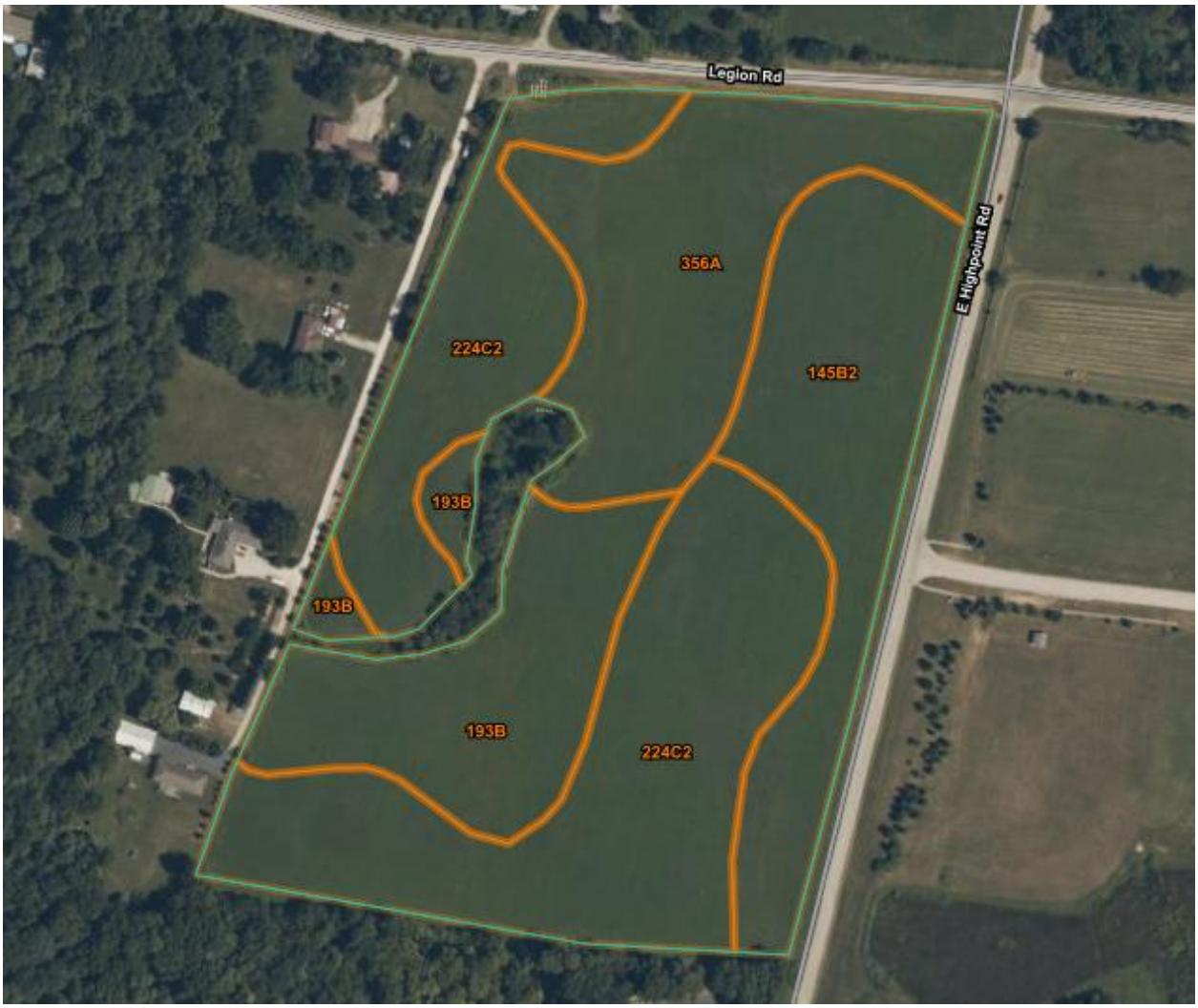
KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7



Jim Brummel

KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	10.6	41.4%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: March 04, 2021
Workorder: **2101A73**

Client Sample ID: **KE Jim Brummel 2**
Lab ID: 2101A73-004 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:08 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.71	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.70	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Client Sample ID: **KE Swenson 24**
Lab ID: 2101A73-005 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:47 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.80	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.18	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Created: 3/4/2021 5:55:33 PM

METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 2
ACREAGE: 25
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Marathon lag 25 cells 2,3,4
4 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.011	0.043	0.87	0.04	0.011	0.104	0	0	0	0	0.009				189.35	68.02
2	April 2021	0.03	6.15	7.17	0.69	1.12	10.51	0.19	0	0.14	0.22					891.71	180.13
2	June 2022	0.04	4.46	4.87	0.45	0.8	8.18	0.04	0	0.12	0.17					776.73	151.46
3	May-23	0.06	9.76	13.75	0.84	1.88	16.55	0.06	0.01	0.2	0.26					847.84	250.11
4	May-23	0	0.18	0.09	0.01	0.01	0.21	0	0	0	0					25	3.14
1	March.24	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.016	8.5 pci/g			260.91	93.72
	Cumulative Total	0.15	20.65	27.58	2.06	3.83	35.65	0.29	0.01	0.46	0.65	0.025					
	%of LIMIT	1.5	8.3	3.1	2.1	0.4	7.1	0.3	0	5.8	4						

1	Background Radium	1.410	pci/g
2	Site Limit	2.410	pci/g
3	Cumulative total to Date	1.435	pci/g
4	% of Total Cumulative Limit	59.54	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

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Phone: 217-785-9935
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1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-32-200-001
Section Number	32	Township *(Number and Direction)*	T36-37N
Tillable Acres	38	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Seth Sleezer 6

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.77	+ / -	0	Radium-228	0.97	+ / -	0

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/13/24	244.38	6.4	38	4.9	3.6

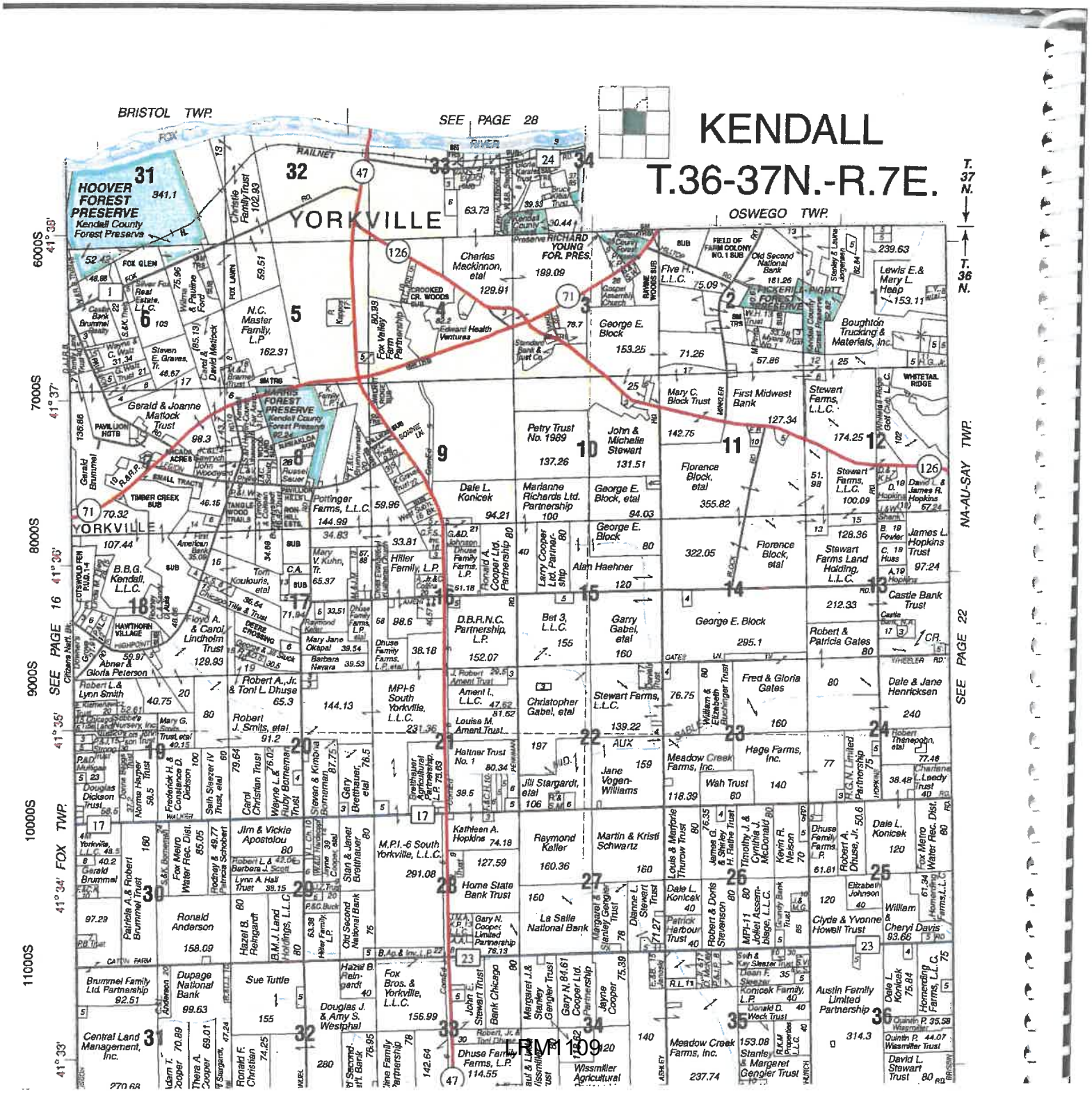
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Seth Sleezer

Field 6
Acres 38.27
Kendal County
Township
Section 32



Seth Sleezer

Field 6

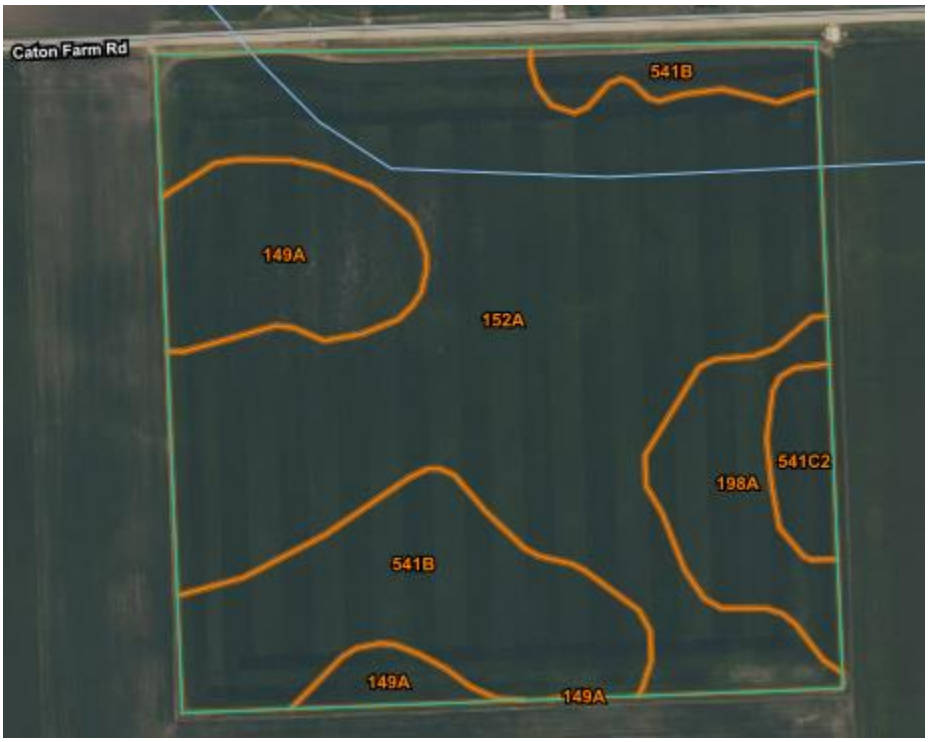
Acres 38.27

Kendal County

Kendall Township

Section 32

149A	Brenton silt loam, 0 to 2 percent slopes	4.3	11.2%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	22.7	59.4%	.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	2.9	7.7%	.60 to 2.00 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	7.3	19.1%	.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.0	2.6%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, August 14, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Seth Sleezer 6 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240176 is in Table 1. Stewart Spreading identified the sample as KE Seth Sleezer 6 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240176
	KE Seth Sleezer 6 (Soil)
Ac-228	0.97
Ra-228[1]	0.97
Pb-214	0.76
Bi-214	0.79
Ra-226[2]	0.77
Total Radium[3]	1.74

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Seth Sleezer 6
ACREAGE: 38.237
COUNTY: Kendall
TOWNSHIP: Bristol Township
SECTION: 32

FARMER: Seth Sleezer
ADDRESS: 7214 Caton Farm Road
Yorkville, IL 60560

Source of biosolids
1 Marathon lagoon 25 cells 2,3,4
2 Lasma Lagoon 28
3 Aurora Lime
4

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**May-23**	0.07	10.73	15.12	0.93	2.07	18.21	0.07	0.01	0.22	0.29		
3	**March.24**	0.016	0.095	1.406	0.049	0.016	0.165	0.000	0.000	0.000	0.000	0.028	8.5 pci/g
2	**Apr-24**	0.11	8.01	9.08	0.73	1.42	16.57	0.11	0.01	0.19	0.28		
	TOTAL	0.2	18.84	25.61	1.71	3.51	34.95	0.18	0.02	0.41	0.57	0.028	pci/g
	%of LIMIT	2	7.5	2.8	1.7	0.4	7	0.2	0.1	5.1	3.5		

1	Background Radium	1.740	pci/g
2	Site Limit	2.740	pci/g
3	Cumulative Total to Date	1.768	pci/g
4	% of Total Cumulative Limit	64.52	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	08-19-300-005
Section Number	19	Township *(Number and Direction)*	T35N
Tillable Acres	70	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Swenson 25

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.88	+ / -	0	Radium-228	1.28	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/19/24	389.62	5.6	70	4.9	3.6

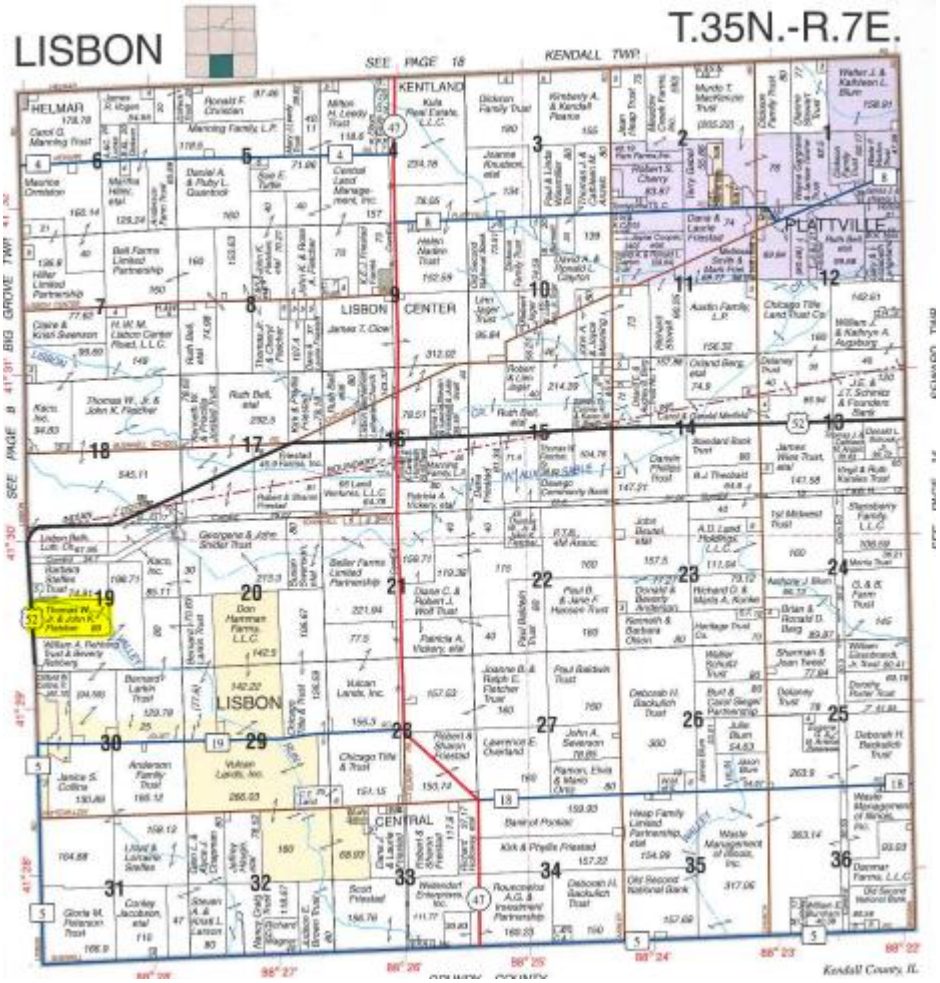
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Swenson

KE Swenson 25
70 acres
Kendall County
Lisbon Township
Section 19



Swenson

KE Swenson 25
70 acres
Kendall County
Lisbon Township
Section 19

59A	Lisbon silt loam, 0 to 2 percent slopes	6.2	8.9%	0.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	6.8	9.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	4.7	6.8%	0.06 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	14.4	20.7%	0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	25.3	36.4%	0.06 to 0.60 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	0.0	0.0%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	12.0	17.3%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991
consult@rssi.us

Friday, June 17, 2022

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551
USA

greg@stewartspreading.com

RE: KE Swanson 25

Mr. Firrantello:

A summary of gamma spectroscopy results for our sample number G220123 is in Table 1. Stewart Spreading identified the sample as KE Swanson 25. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G220123
	KE Swanson 25
Ac-228	1.28
Ra-228[1]	1.28
Pb-214	0.96
Bi-214	0.80
Ra-226[2]	0.88
Total Radium[3]	2.16

NOTES
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average concentration of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant photons represent the concentrations of these

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is authorized by Illinois Emergency Management Agency, license number IL-01429-01, and accredited to the ISO/IEC 17025:2017 standard by Perry Johnson Laboratory Accreditation (PJLA) under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761 in accordance with the ASTM standard C1402-17.

ilac-MRA
PJLA
Testing
ISO/IEC 17025:2017
Accreditation #101315

METAL LOADING RECORD

SITE NUMBER: KE Sweson 25
ACREAGE: 70
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 19

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon
Newark Il 60541

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	**Mar-22**	0.01	0.03	0.91	0.03	0.01	0.08	0.00	0.00	0.00	0.00	0.005	
1	**March.24**	0.014	0.082	1.223	0.042	0.014	0.143	0.000	0.000	0.000	0.000	0.024	8.5 pci/g
	TOTAL	0.02	0.12	2.13	0.07	0.02	0.23	0	0	0	0	0.029	pci/g
	%of LIMIT	0.2	0	0.2	0.1	0	0	0	0	0	0		

1	Background Radium	2.160	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.189	pci/g
4	% of Total Cumulative Limit	72.97	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Attached
Section Number	18 &19	Township *(Number and Direction)*	T36-37N
Tillable Acres	151	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE G Brummel 9	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.08	+ / -	0	Radium-228	1.44	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
3/19/24	86.79	.57	151	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 16, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PIN

05-19-200-003

05-18-400-010

05-18-400-006

05-17-300-003

05-18-400-013

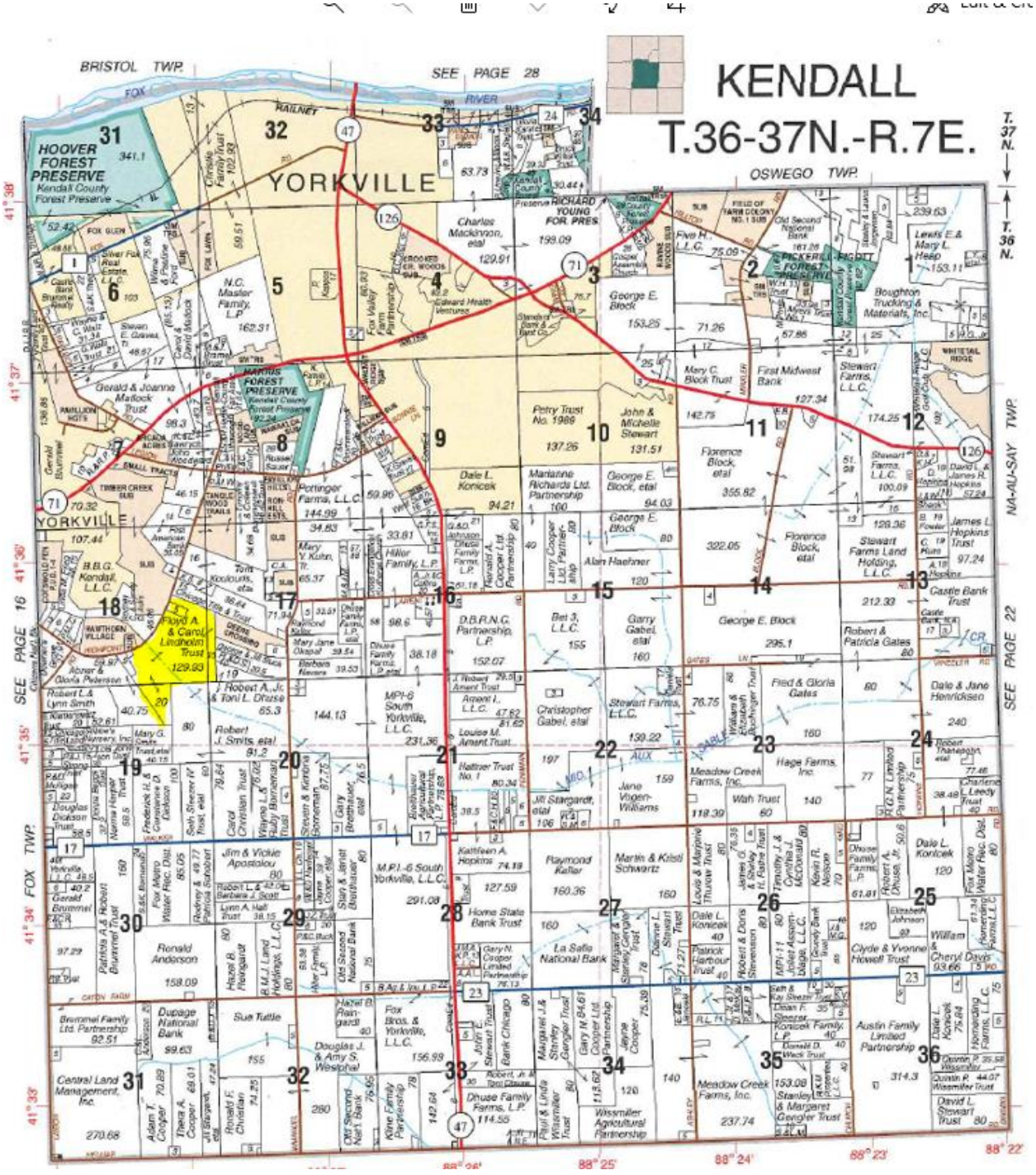
05-17-300-020

05-18-400-012

05-17-300-019

Gerry Brummel

KE Gerry Brummel 9
151 acres
Kendall County
Kendall Township
Section 18,19



LRM1120

Gerry Brummel KE Gerry Brummel 9

151 acres

Kendall County

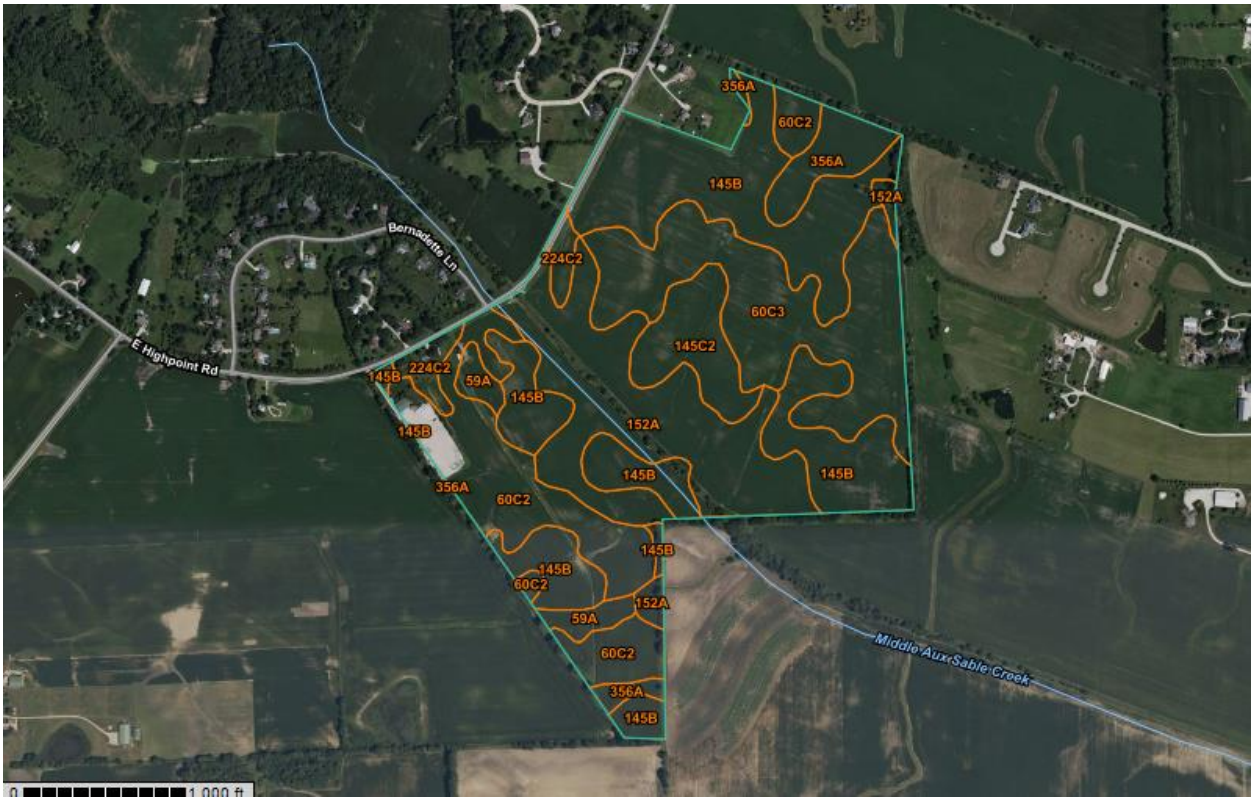
Kendall Township

Section 18,19

59A	Lisbon silt loam, 0 to 2 percent slopes	3.7	2.2%		.20 to 0.60 in/hr
145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded	8.9	5.3%		0.06 to 0.60 in/hr

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	29.6	20.3%
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded (0.06 to 0.60 in/hr)	9.6	6.6%
145B	Saybrook silt loam, 2 to 5 percent slopes (0.06 to 0.60 in/hr)	23.5	16.1%
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded (0.06 to 0.60 in/hr)	1.1	0.8%
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded (0.06 to 0.60 in/hr)	1.9	1.3%

356A	Elpaso silty clay loam, 0 to 2 percent slopes (0.20 to 0.60 in/hr)	37.1	25.5%



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991
consult@rssi.us

Tuesday, August 02, 2022

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551
USA

greg@stewartspreading.com

RE: KE G Brummel 9

Mr. Firrantello:

A summary of gamma spectroscopy results for our sample number G220138 is in Table 1. Stewart Spreading identified the sample as KE G Brummel 9. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G220138
	KE G Brummel 9
Ac-228	1.44
Ra-228[1]	1.44
Pb-214	1.10
Bi-214	1.06
Ra-226[2]	1.08
Total Radium[3]	2.52

NOTES
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average concentration of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant photons represent the concentrations of these

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is authorized by Illinois Emergency Management Agency, license number IL-01429-01, and accredited to the ISO/IEC 17025:2017 standard by Perry Johnson Laboratory Accreditation (PJLA) under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761 in accordance with the ASTM standard C1402-17.

ilac-MRA
PJLA
Testing
ISO/IEC 17025:2017
Accreditation #101315

METAL LOADING RECORD

SITE NUMBER:	9	COUNTY:	Kendall		Source of biosolids
ACREAGE:	151	TOWNSHIP:	Kendall	1	LASMA Lagoon 28
		SECTION:	18 and 19	2	DuPage
FARMER:	Gerry Brummel			3	Aurora Lime
ADDRESS:	13205 Church Road				
	Minooka, IL 60447				
PHONE #:	815-475-4505				

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	5/1/2022	0.01	0.84	0.92	0.09	0.15	1.55	0.01	0	0.02	0.03		
2	5/1/2022	0	0.18	0.12	0.01	0.01	0.24	0	0	0	0		pci/g
3	5/1/2022	0.01	0.047	1.236	0.043	0.01	0.112	0	0	0	0	0.007	3.57 pci/g
2	6/1/2022	0.000	0.100	0.070	0.010	0.000	0.120	0	0	0	0		
1	6/1/2022	0.03	3.97	4.34	0.4	0.71	7.28	0.03	0	0.11	0.15		
3	March.24	0.001	0.008	0.125	0.004	0.001	0.015	0	0	0	0	0.002	8.5 pci/g
	TOTAL	0.05	5.15	6.81	0.56	0.88	9.32	0.04	0	0.13	0.18	0.009	pci/g
	%of LIMIT	0.5	2.1	0.8	0.6	0.1	1.9	0	0	1.6	1.1		

Background Radium	2.520	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.529	pci/g
% of Total Cumulative Limit	84.30	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 10/17/23

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd

4.) Phone Number of User: 630-675-7589

5.) Location Where Sludge is to be Used: Field 3, SE ¼ of Section 31, Kendall Township KE Jim Brummel 3

6.) Size of Area Where Lime Residuals are to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is:

15.) Limitations from Site Characteristics: None Observed, Small field entrance, broken tile in NE corner

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied 126.8 wet tons

Years Applied 2021

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

10/17/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 1

6.) Size of Area Where Lime Residuals are to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 850 wet tons

Years Applied 2020

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Bonnell 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 10/17/23

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: KE Jim Brummel 2

6.) Size of Area Where Lime is to be Used: 25 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 189.35 wet tons

Years Applied 2020

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

10/17/23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: February 2, 2024

2.) Name of User: Seth Sleezer

3.) Address of User: 7214 Caton Farm Road Yorkville IL 60560

4.) Phone Number of User: 630-767-8947

5.) Location Where Lime is to be Used: KE Seth Sleezer 6

6.) Size of Area Where Lime is to be Used: 38.27 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 318.24 wet tons

Years Applied 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Scott Sleys VT 2/2/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2023

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 25

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied 498.78 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Claire Sporman 8-15-23

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: January 23, 2024

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road Minooka, IL

4.) Phone Number of User: 815-475-4505

5.) Location Where Lime is to be Used: KE Gerry Brummel 9 Kendall County, Kendall Township

6.) Size of Area Where Lime is to be Used: 151 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorporation

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1500 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Bonnell 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-10-200-002
Section Number	10	Township *(Number and Direction)*	T35N
Tillable Acres	76	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Dana Friested 14	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.06	+ / -	0	Radium-228	1.60	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/25 and 4/26/24	375.63	4.9	76	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 >	8.5 < 4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **Apr-24**

Biosolids Field Record

KE Dana Friestad 14

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/25/2024	4/25/2024	City of Aurora - Lime	302.52	30.53	92.36
4/26/2024	4/26/2024	City of Aurora - Lime	654.35	43.29	283.27
Total			956.87		375.63

Biosolids Field Record

KE Dana Friestad 15

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/25/2024	4/25/2024	City of Aurora - Lime	489.2	30.53	149.35
Total			489.20		149.35

Biosolids Field Record

KE Dana Friestad 16

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/24/2024	4/24/2024	City of Aurora - Lime	665.16	29.44	195.82
4/25/2024	4/25/2024	City of Aurora - Lime	108.9	30.53	33.25
Total			774.06		229.07

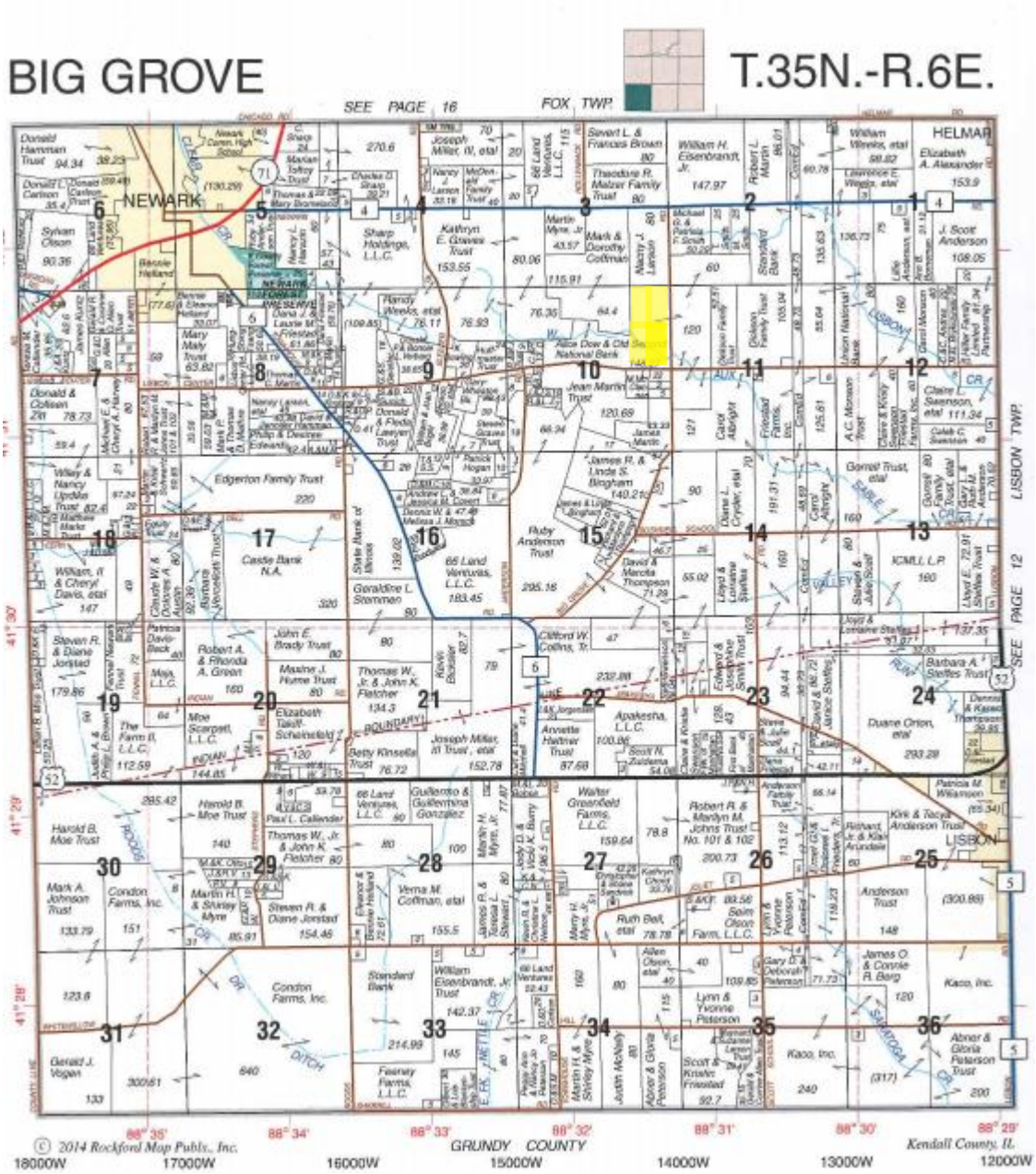
Biosolids Field Record

KE Dana Friestad 17

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
4/24/2024	4/24/2024	City of Aurora - Lime	433.97	29.44	127.76
Total			433.97		127.76

Dana Friested

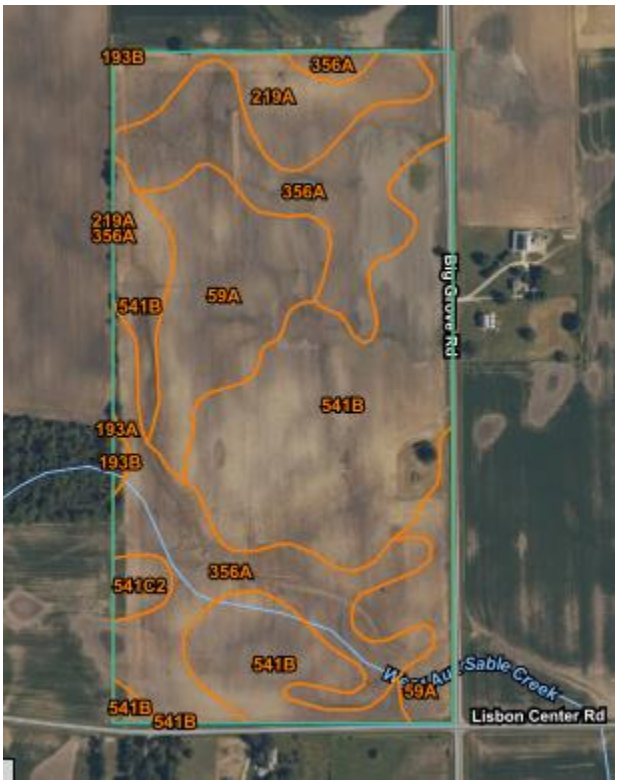
KE Dana Friested 14
76 acres
Kendall County
Big Grove Township
Section 10



Dana Friested

KE Dana Friested 14
76 acres
Kendall County
Big Grove Township
Section 10

59A	Lisbon silt loam, 0 to 2 percent slopes	15.0	18.6%	.20 to 0.60 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.0	0.1%	.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	0.3	0.4%	.06 to 0.60 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		6.4	7.9% .60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes		26.1	32.3% .20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes		31.7	39.3% .06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded		1.1	1.4%.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, May 31, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 13, 14, 15, 16, 17 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240112 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 13, 14, 15, 16, 17 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240112
	KE Dana Friestad 13, 14, 15, 16, 17 (Soil)
Ac-228	1.60
Ra-228[1]	1.60
Pb-214	1.08
Bi-214	1.04
Ra-226[2]	1.06
Total Radium[3]	2.67

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 14
ACREAGE: 76
FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 10

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.08	5.74	6.51	0.52	1.02	11.88	0.08	0.00	0.13	0.20					2479.65	515.77
2	April.24	0.012	0.073	1.078	0.037	0.012	0.126	0.000	0.000	0.000	0.000	0.0210	8.5 pci/g			956.87	375.63
TOTAL		0.09	5.81	7.59	0.56	1.03	12.01	0.08	0	0.13	0.2	0.021	pci/g				
%of LIMIT		0.9	2.3	0.8	0.6	0.1	2.4	0.1	0	1.6	1.2						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.681	pci/g
4	% of Total Cumulative Limit	89.37	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-02-300-002
Section Number	2	Township *(Number and Direction)*	T35N
Tillable Acres	58	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friested 15

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.06	+ / -	0	Radium-228	1.60	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/25/24	149.35	2.6	58	4.9	3.6

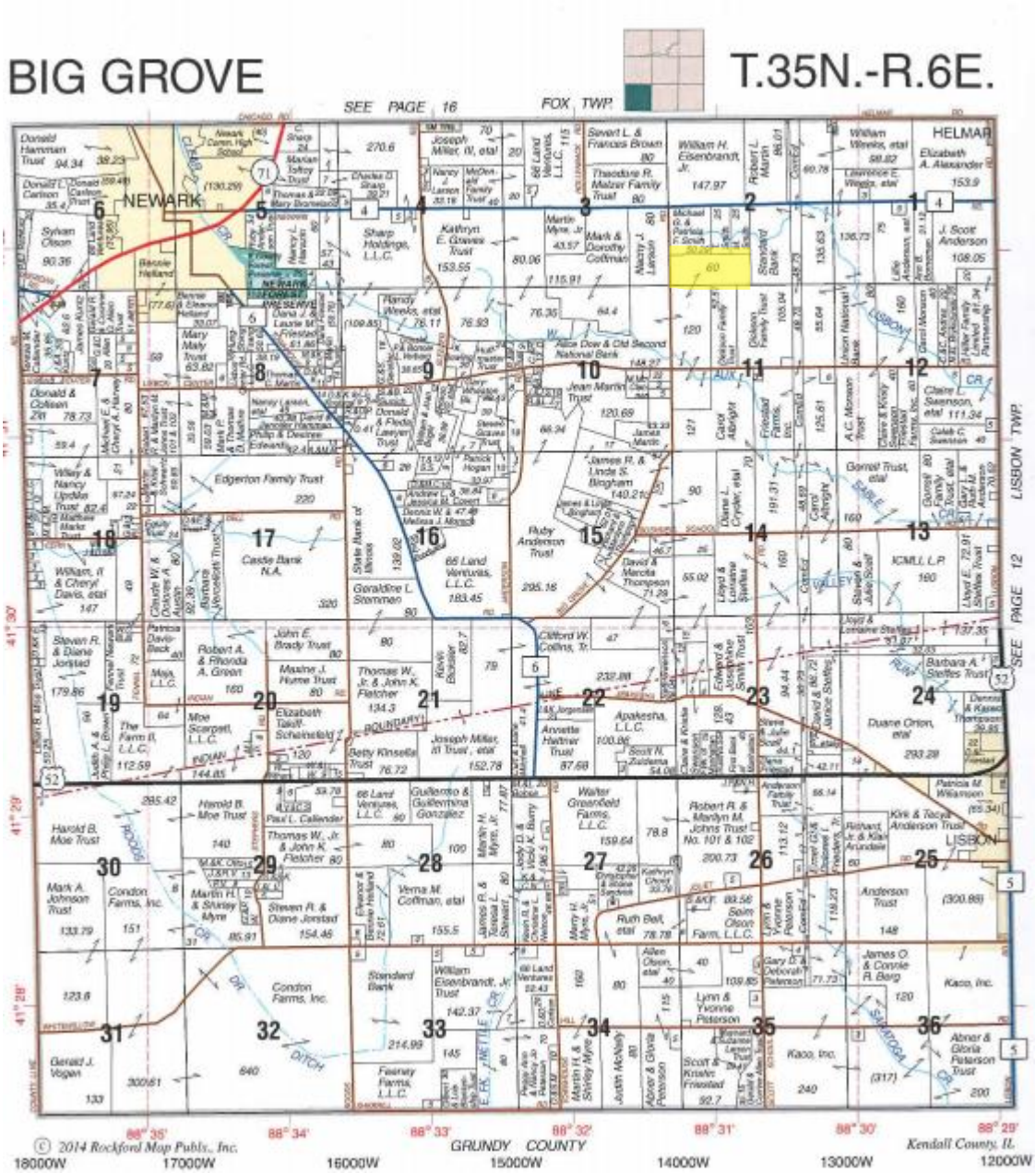
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dana Friested

KE Dana Friested 15
58 acres
Kendall County
Big Grove Township
Section 2



Dana Friested

KE Dana Friested 15
58 acres
Kendall County
Big Grove Township
Section 2

59A	Lisbon silt loam, 0 to 2 percent slopes	11.1	23.5%	.20 to 0.60 in/hr
60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.7	3.7%	.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	2.0	4.3%	.06 to 0.60 in/hr
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	2.8	5.9%	.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	9.8	20.7%	.60 to 2.00 in/hr
198A	Elburn silt loam, 0 to 2 percent slopes	1.5	3.2%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	12.2	25.7%	.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.0	0.0%	.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	6.2	13.2%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, May 31, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 13, 14, 15, 16, 17 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240112 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 13, 14, 15, 16, 17 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240112
	KE Dana Friestad 13, 14, 15, 16, 17 (Soil)
Ac-228	1.60
Ra-228[1]	1.60
Pb-214	1.08
Bi-214	1.04
Ra-226[2]	1.06
Total Radium[3]	2.67

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 15
ACREAGE: 58
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 2

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.35	7.2	0.58	1.13	13.13	0.09	0.00	0.15	0.22					1846.46	384.06
2	April.24	0.007	0.038	0.572	0.020	0.007	0.067	0.000	0.000	0.000	0.000	0.0110	8.5 pci/g			489.2	149.35
TOTAL		0.1	6.39	7.77	0.6	1.14	13.2	0.09	0	0.15	0.22	0.011	pci/g				
%of LIMIT		1	2.6	0.9	0.6	0.1	2.6	0.1	0	1.9	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.671	pci/g
4	% of Total Cumulative Limit	89.03	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-11-100-001
Section Number	11	Township *(Number and Direction)*	T35N
Tillable Acres	70	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friested 16

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.06	+ / -	0	Radium-228	1.60	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/24/24 and 4/25/24	229.07	3.3	70	4.9	3.6

5. I certify the information provided above is accurate,

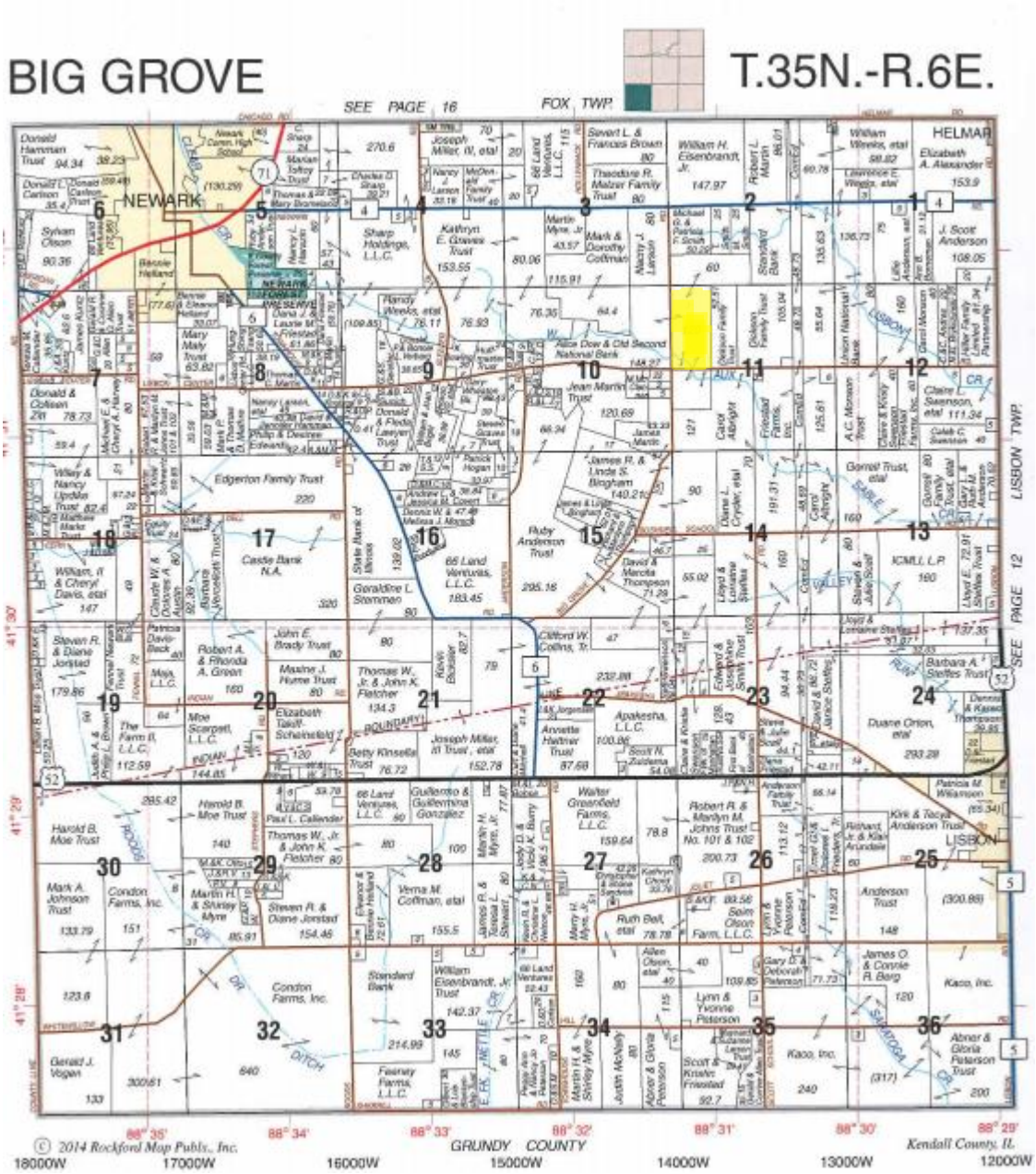
Signature: Billie M Marko Date: Sep 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1148

Dana Friested

KE Dana Friested 16
70 acres
Kendall County
Big Grove Township
Section 11



Dana Friested

KE Dana Friested 16
70 acres
Kendall County
Big Grove Township
Section 11

59A	Lisbon silt loam, 0 to 2 percent slopes	15.0	18.6%	.20 to 0.60 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.0	0.1%	.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	0.3	0.4%	.06 to 0.60 in/hr
219A	Millbrook silt loam, 0 to 2 percent slopes		6.4	7.9% .60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes		26.1	32.3% .20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes		31.7	39.3% .06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded		1.1	1.4%.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, May 31, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 13, 14, 15, 16, 17 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240112 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 13, 14, 15, 16, 17 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID
	G240112
	KE Dana Friestad 13, 14, 15, 16, 17 (Soil)
Ac-228	1.60
Ra-228[1]	1.60
Pb-214	1.08
Bi-214	1.04
Ra-226[2]	1.06
Total Radium[3]	2.67

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 16
ACREAGE: 70
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 11

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.2	7.02	0.56	1.1	12.81	0.09	0.00	0.14	0.22					2487.22	517.34
2	April.24	0.008	0.049	0.726	0.025	0.008	0.085	0.000	0.000	0.000	0.000	0.0140	8.5 pci/g			774.06	229.07
TOTAL		0.1	6.25	7.75	0.59	1.11	12.9	0.09	0	0.14	0.22	0.014	pci/g				
%of LIMIT		1	2.5	0.9	0.6	0.1	2.6	0.1	0	1.8	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.674	pci/g
4	% of Total Cumulative Limit	89.13	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-11-100-001
Section Number	11	Township *(Number and Direction)*	T35N
Tillable Acres	35	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friested 17

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.06	+ / -	0	Radium-228	1.60	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
4/24/24	127.76	3.7	35	4.9	3.6

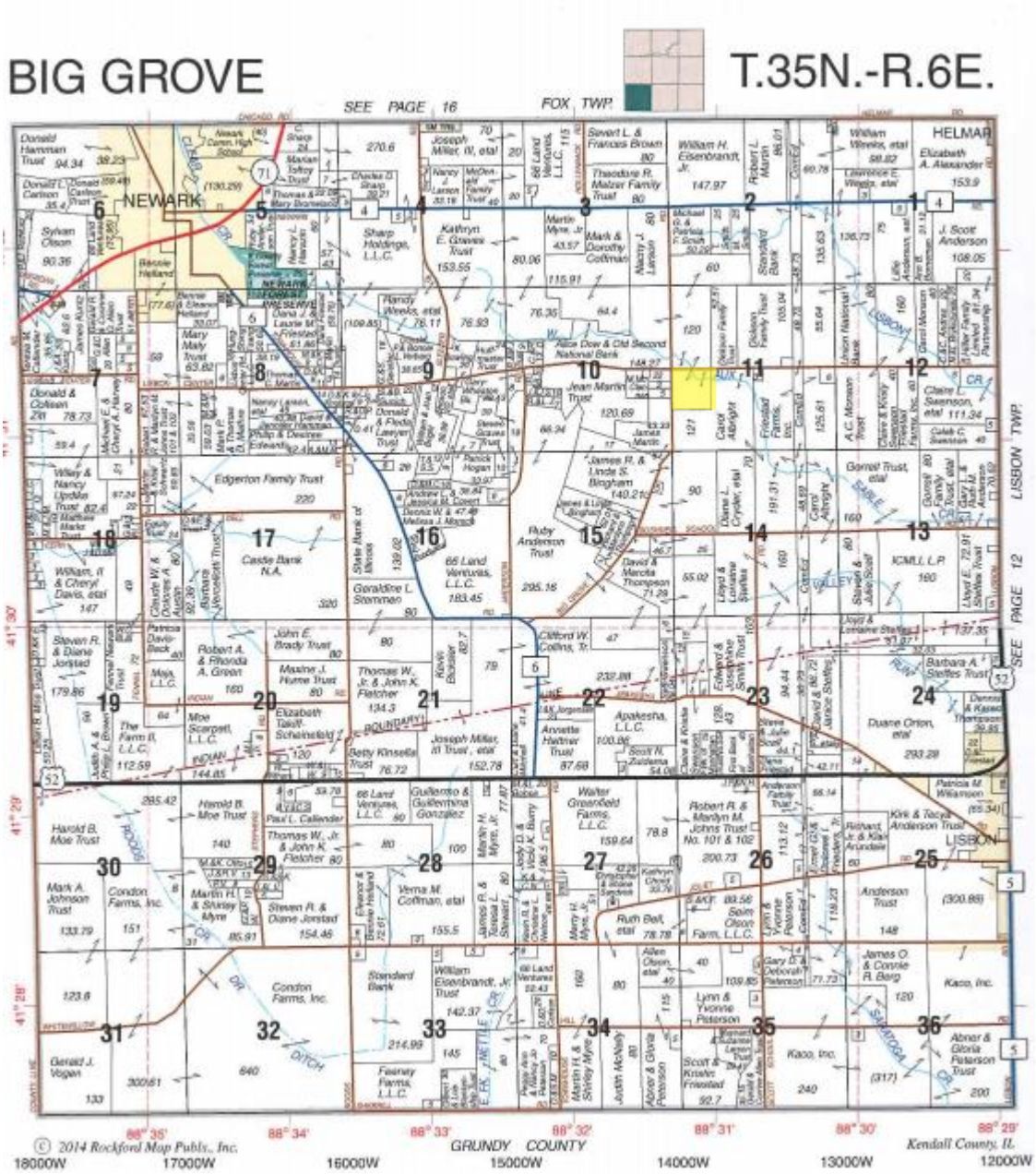
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Sep 25, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dana Friested

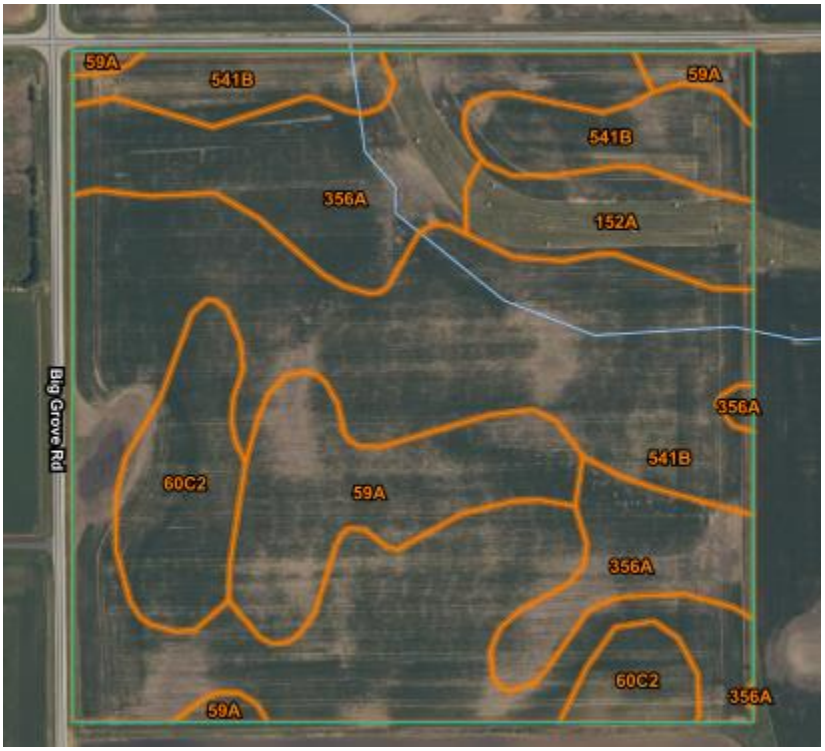
KE Dana Friested 17
35 acres
Kendall County
Big Grove Township
Section 11



Dana Friested

KE Dana Friested 17
35 acres
Kendall County
Big Grove Township
Section 11

59A	Lisbon silt loam, 0 to 2 percent slopes	4.4	11.5%	.20 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	3.4	8.7%	.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	2.1	5.5%	.60 to 2.00 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	7.4	19.1%	.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	21.2	55.1%	.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, May 31, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 13, 14, 15, 16, 17 (Soil)

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample number G240112 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 13, 14, 15, 16, 17 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

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Radionuclide	Sample ID
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	KE Dana Friestad 13, 14, 15, 16, 17 (Soil)
Ac-228	1.60
Ra-228[1]	1.60
Pb-214	1.08
Bi-214	1.04
Ra-226[2]	1.06
Total Radium[3]	2.67

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 17
ACREAGE: 35
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 11

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	April.24	0.09	6.2	7.02	0.56	1.1	12.81	0.09	0.00	0.14	0.22					1230.79	256.00
2	April.24	0.009	0.055	0.814	0.028	0.009	0.095	0.000	0.000	0.000	0.000	0.0160				433.97	127.76
TOTAL		0.1	6.26	7.83	0.59	1.11	12.91	0.09	0	0.14	0.22	0.016	pci/g				
%of LIMIT		1	2.5	0.9	0.6	0.1	2.6	0.1	0	1.8	1.4						

1	Background Radium	2.660	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.676	pci/g
4	% of Total Cumulative Limit	89.20	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 14

6.) Size of Area Where Lime is to be Used: 76 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Arneistad 3-14-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 15

6.) Size of Area Where Lime is to be Used: 58 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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Dana Frieslund 3-14-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 16

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Frieslund 3-14-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 14, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 17

6.) Size of Area Where Lime is to be Used: 35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Frieslund 3-14-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	14-30-300-002
Section Number	30	Township *(Number and Direction)*	T38N
Tillable Acres	140	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KA Hamman 19

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.99	+ / -	0	Radium-228	0.93	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/10/24 and 6/11/24	596.87	4.3	140	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Oct 4, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Project: **City of Aurora - Lime**

IEPA Generator Number: **2020-SC-65501**

Reporting Period: **June 2024**

Biosolids Field Record

Site: KA Hamman 19

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/10/2024	6/10/2024	City of Aurora - Lime	1163.37	34.48	401.13
6/11/2024	6/11/2024	City of Aurora - Lime	424.81	39.75	168.86
6/11/2024	6/11/2024	City of Aurora - Lime	65.66	40.93	26.87
Total			1653.84		596.87

Biosolids Field Record

Site: CO Plechkahm 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/11/2024	6/11/2024	City of Aurora - Lime	571.55	40.93	233.94
Total			571.55		233.94

Biosolids Field Record

Site: LS Kinsella 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
6/10/2024	6/10/2024	City of Aurora - Lime	531.24	34.48	183.17
Total			531.24		183.17

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: Annual Lagoon Sludge
Sample ID: Sludge 1
Sample No: 23-6087-001

Date Collected: 07/17/23
Time Collected: 9:10
Date Received: 07/17/23
Date Reported: 09/20/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfate, Soluble **Method: 9038**				
Analysis Date: 07/20/23				
Analyzed By: EMS				
Sulfate, Soluble	1,190	150	mg/kg	N
Sulfide **Method: 4500S2,C,D 2011**				
Analysis Date: 07/24/23				
Analyzed By: AAS				
Sulfide	< 10	10	mg/kg	N
Sulfur by ICP **Method: 6010B**				
Analysis Date: 07/26/23				
Analyzed By: TEK				
Sulfur	1,630	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2011**				
Analysis Date: 07/20/23				
Analyzed By: AAS				
Cyanide, Total	< 0.10	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 08/30/23				
Analyzed By: MICROB				
Radium 226 > 8.5 <	4.9+/-0.4		pCi/g dry	N S
Radium 228	3.6+/-0.6		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Alpha	26.2+/-7.3		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/07/23				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.7		pCi/g dry	N S

LRM1168

Spirit Farms

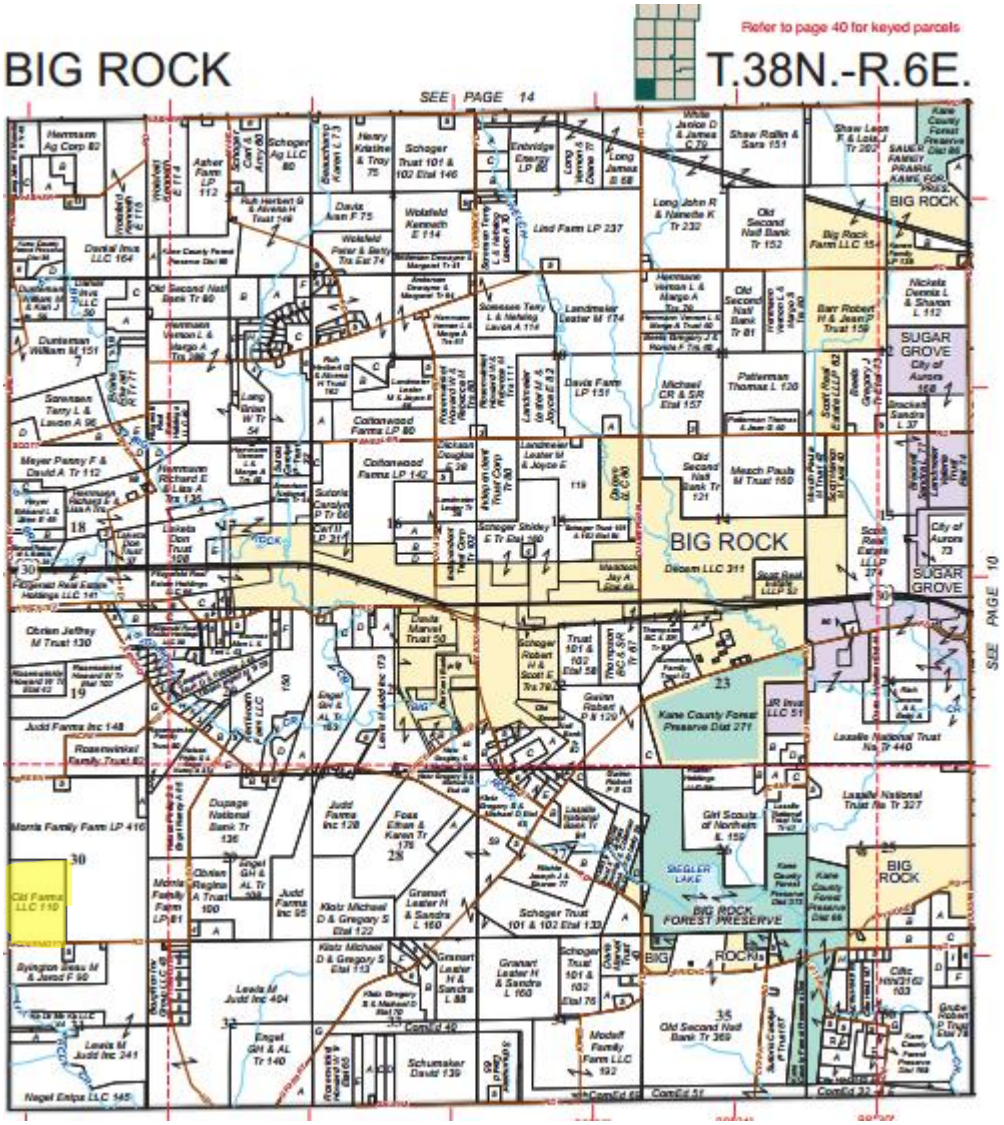
KA Hamman 19

140 acres

Kane county

Big Rock Township

Section 30



Spirit Farms

KA Hamman 19
140 acres
Kane county
Big Rock Township
Section 30

62A	Herbert silt loam, 0 to 2 percent slopes	3.3	2.5%	.20 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	10.0	7.5%	.60 to 2.00 in/hr
154A	Flanagan silt loam, 0 to 2 percent slopes	3.0	2.2%	.20 to 0.60 in/hr
171A	Catlin silt loam, 0 to 2 percent slopes	2.6	2.0%	.20 to 0.60 in/hr
171B	Catlin silt loam, 2 to 5 percent slopes	1.6	1.2%	.20 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	16.5	12.4%	.20 to 0.57 in/hr
233A	Birkbeck silt loam, 0 to 2 percent slopes	24.8	18.5%	.20 to 0.60 in/hr
233B	Birkbeck silt loam, 2 to 5 percent slopes	5.4	4.1%	.20 to 0.60 in/hr
236A	Sabina silt loam, 0 to 2 percent slopes	57.3	42.9%	.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.1	6.8%	.20 to 0.60 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, August 02, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240140-2 is in Table 1. Stewart Spreading identified the samples as KA Hamman 19 (Soil), LS Kinsella 3 (Soil), and CO Pleckham 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs		
	G240140	G240141	G240142
	KA Hamman 19 (Soil)	LS Kinsella 3 (Soil)	CO Pleckham 1 (Soil)
Ac-228	0.93	0.92	1.21
Ra-228[1]	0.93	0.92	1.21
Pb-214	< 0.06^	< 0.06^	0.81
Bi-214	0.99	0.75	0.86
Ra-226[2]	0.99	0.75	0.83
Total Radium[3]	1.93	1.67	2.04

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	KA Hamman 19	COUNTY:	LaSalle
ACREAGE:	140	TOWNSHIP:	Manlius
		SECTION:	12
FARMER:	John Stewart		
ADDRESS:	3870 N. Rt. 71		
	Sheridan, IL 60551		
PHONE #:	815-695-5667		

Source of biosolids

1. Village of Addison-Aerobic
2. Hasma Lagoon 29
3. Lasma Lagoon 28
4. Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 24	0	0.01	0.03	0	0	0.01	0	0	0	0		
2	June 24	0.09	10.72	11.19	1.05	1.95	19.84	0.22	0.01	0.22	0.4		
3	June 24	0	0.34	0.41	0.03	0.05	0.69	0.01	0	0.01	0.01		
4	June 24	0.011	0.064	0.946	0.033	0.011	0.111	0	0	0	0	0.019	
		0.1	11.13	12.58	1.11	2.01	20.65	0.23	0.01	0.23	0.41	0.019	
	%of LIMIT	1	4.5	1.4	1.1	0.2	4.1	0.2	0.1	2.9	2.6		

1	Background Radium	1.930	pci/g
2	Site Limit	2.930	pci/g
3	Cumulative Total to Date	1.949	pci/g
4	% of Total Cumulative Limit	66.52	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Cook	Tax Parcel ID Number *(PIN)**	See Next Page
Section Number	27	Township *(Number and Direction)*	T35N
Tillable Acres	219	Range *(Number and Direction)*	R13E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			CO Pleckham 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.83	+ / -	0	Radium-228	1.21	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/11/24	233.94	1.1	219	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Oct 4, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

CO Pleckham 1 PIN

28-27-101-015-0000

28-27-300-005-0000

28-27-301-004-0000

28-27-301-006-0000

Gerald Pleckham

4330 W. 206th Street

Matteson, IL 60443

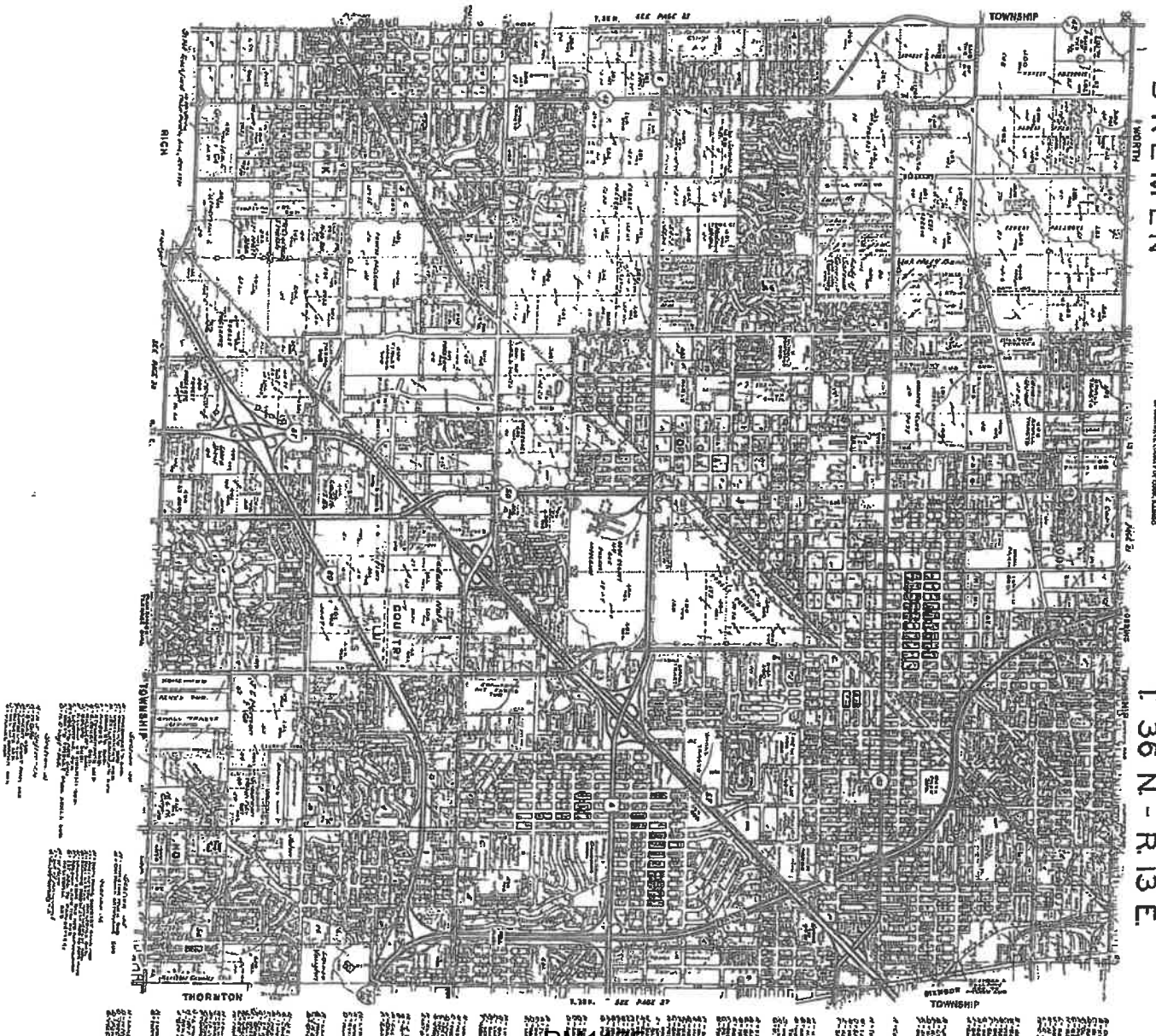
708-692-4415

Field 1

219 Acres

Cook County

Rich Township



Gerald Pleckham
4330 W 206 St
Matteson, IL 60443
708-692-4415

Field 1
219 acres
Cook County
Rich Township

235A	Bryce silty clay, 0 to 2 percent slopes	53.7	18.7%	.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	134.1	46.7%	.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	6.4	2.2%	.02 to 0.06 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	14.4	5.0%	.20 to 0.60 in/hr
805B	Orthents, clayey, undulating	65.6	22.8%	.20 to 0.60 in/hr
903A	Muskego and Houghton mucks, 0 to 2 percent slopes	0.0	0.0%	.02 to 0.06 in/hr
1903A	Muskego & Houghton mucks,undrained, 0 to 2 percent slopes	2.8	1.0%	.06 to 0.20 in/hr
4904A	Muskego and Peotone soils, ponded, 0 to 2 percent slopes	10.1	3.5%	.20 to 0.60 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, August 02, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

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Ac-228	0.93	0.92	1.21
Ra-228[1]	0.93	0.92	1.21
Pb-214	< 0.06^	< 0.06^	0.81
Bi-214	0.99	0.75	0.86
Ra-226[2]	0.99	0.75	0.83
Total Radium[3]	1.93	1.67	2.04

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
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[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	CO Pleckham 1	COUNTY:	Cook
ACREAGE:	219	TOWNSHIP:	Rich
		SECTION:	
FARMER:	John Stewart		
ADDRESS:	3870 North Route 71 Sheridan, IL 60551		
PHONE #:	815-695-1460		

Source of biosolids

1 Lasma-Lagoon 28
2 Marathon lagoon 25 cells 2, 3, 4
3 Village of Addison-Aerobic
4 Village of Addison-Anaerobic
5 Lasma-Lagoon 27
6 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	May-23	0.04	4.23	4.59	0.44	0.82	8.67	0.1	0.01	0.1	0.15		
2	May-23	0.01	2.19	3.09	0.19	0.42	3.72	0.01	0	0.05	0.06		
3	Jun-24	0	0.03	0.06	0	0	0.03	0	0	0	0		
4	Jun-24	0	0.03	0.01	0	0	0.05	0	0	0	0		
1	Jun-24	0.02	1.78	2.18	0.18	0.28	3.62	0.05	0	0.05	0.06		
5	Jun-24	0.02	3.05	3.59	0.29	0.56	6.2	0.08	0	0.08	0.09		
6	Jun-24	0.003	0.016	0.242	0.008	0.003	0.028	0	0	0	0	0.005	
	TOTAL	0.093	11.326	13.762	1.108	2.083	22.318	0.240	0.010	0.280	0.360	0.005	pci/g
	%of LIMIT	0.9	4.5	1.5	1.1	0.2	4.5	0.2	0.1	3.5	2.2		

1	Background Radium	2.040	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative Total to Date	2.045	pci/g
4	% of Total Cumulative Limit	68.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	20-12-400-003
Section Number	12	Township *(Number and Direction)*	T35N
Tillable Acres	57	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Kinsella 3	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.75	+ / -	0	Radium-228	0.92	+ / -	0

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
6/10/24	183.17	3.2	57	4.9	3.6

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Oct 4, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1179

Kinsella

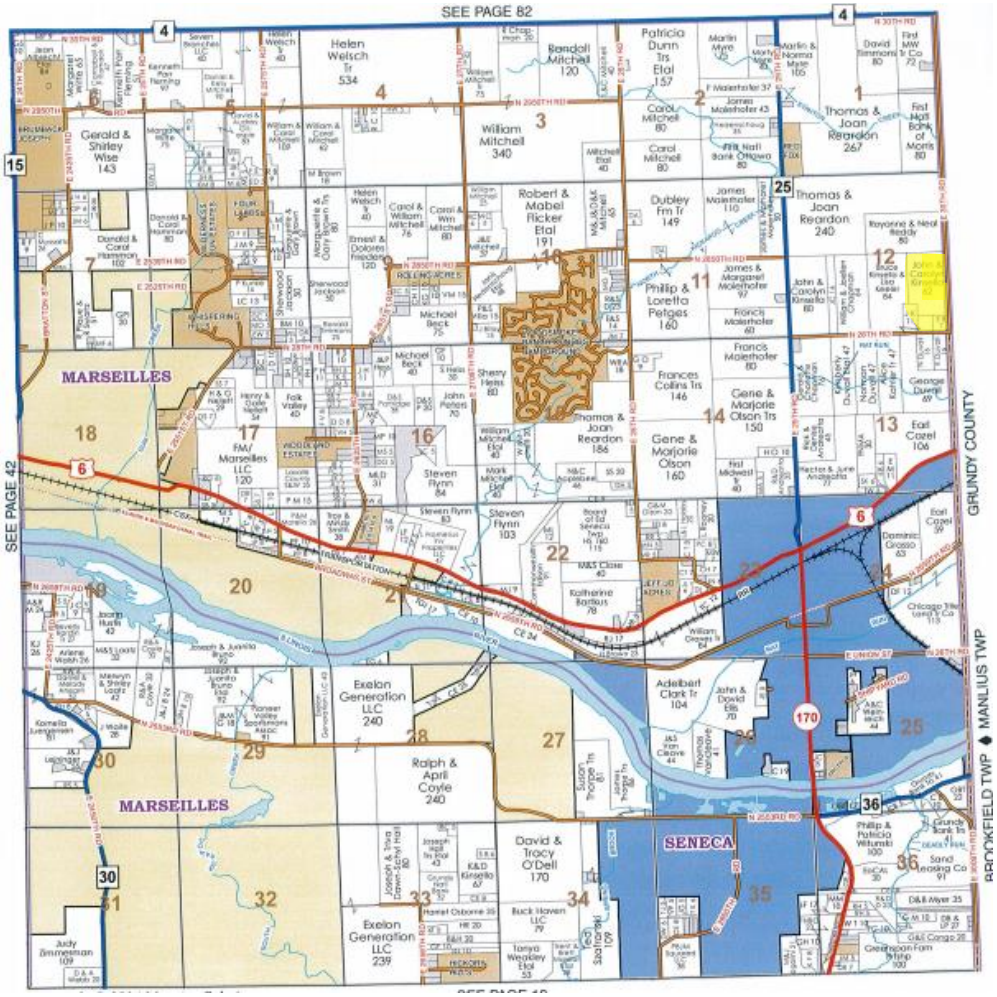
LS Kinsella 3

57 acres

LaSalle County

Manlius Township

Section 12


SEE PAGE 82
SEE PAGE 42
MARSEILLES
MARSEILLES
SENECA
GRUNDY COUNTY
MANLIUS TWP
ARNOLD TWP
Helen Welsch Tr 534
Randall Mitchell 120
Patricia Dunn Trs Etal 157
Thomas & Joan Reardon 267
Gerald & Shirley Wise 143
William Mitchell 340
Robert & Mabel Flicker Etal 191
Thomas & Joan Reardon 240
Dubley Frm Tr 149
Phillip & Loretta Petges 160
Francis Molenhofer 80
Frances Collins Trs 146
Gene & Marjorie Olson Trs 150
Gene & Marjorie Olson 160
Thomas & Joan Reardon 186
Steven Flynn 84
Steven Flynn 103
Exelon Generation LLC 240
Ralph & April Coyle 240
David & Tracy O'Dell 170
Exelon Generation LLC 239
Adelbert Clark Tr 104
Earl Cozel 106
Earl Cozel 39
Dominic Grosso 63
Chicago Title Land Tr Co 115
Phillip & Patricia Wlumski 100
Sand Leasing Co 91
Greenbrier Farm Trust 100
FM/ Marseilles LLC 120
Michael Beck 40
Michael Beck 75
Sherry Heiss 80
John Peters 70
Steven Flynn 80
Katherine Barbus 78
Board of Ed Seneca Twp 115
Carol Mitchell 80
Carol & William Mitchell 80
Carol & Wm Mitchell 80
Ernest & Dolores Friedberg 120
Sherwood Jackson 30
Folk Valley 40
Irja & Wesley Smith 40
Henry & Clyde Hilbert 34
Donald & Carol Hammon 80
Gerald & Shirley Wise 143
Helen Welsch Tr 40
Kenneth Ron Fleming 97
Margaret Witte 65
Jean Arbogast 84
Seven Branches LLC 45
Daniel & Kelly Mitchell 40
William & Carol Mitchell 80
Carol & William Mitchell 76
Carol & Wm Mitchell 80
Robert & Mabel Flicker Etal 40
Mitchell Etal 40
Carol Mitchell 80
James Molenhofer 43
First Nat'l Bank Ottawa 80
James Molenhofer 110
Francis Molenhofer 60
Francis Molenhofer 80
Gene & Marjorie Olson 160
Thomas & Joan Reardon 186
Steven Flynn 80
Steven Flynn 103
Katherine Barbus 78
Board of Ed Seneca Twp 115
M&S Close 40
Adelbert Clark Tr 104
John & David Ellis 70
Earl Cozel 106
Earl Cozel 39
Dominic Grosso 63
Chicago Title Land Tr Co 115
Phillip & Patricia Wlumski 100
Sand Leasing Co 91
Greenbrier Farm Trust 100
Judy Zimmerman 109
Tonya Weakley Etal 53
Back Haven LLC 79
Joseph & Thea Dimmick Etal 80
Harriet Osborne 35
Joseph Hall Trs Etal 43
Grundy Hall Bryn 32
K&D Kinsella 67
Joseph & Juanita Bruno 92
Joseph & Juanita Bruno 80
Melvyn & Shirley Lodt 42
Arlene Walsh 26
Joann Hurtis 42
Kornelia Juenemann 81
Pioneer Valley Sportsmens Assoc 81
Irja & Wesley Smith 40
Henry & Clyde Hilbert 34
Folk Valley 40
Donald & Carol Hammon 80
Gerald & Shirley Wise 143
Helen Welsch Tr 40
Kenneth Ron Fleming 97
Margaret Witte 65
Jean Arbogast 84
Seven Branches LLC 45
Daniel & Kelly Mitchell 40
William & Carol Mitchell 80
Carol & William Mitchell 76
Carol & Wm Mitchell 80
Robert & Mabel Flicker Etal 40
Mitchell Etal 40
Carol Mitchell 80
James Molenhofer 43
First Nat'l Bank Ottawa 80
James Molenhofer 110
Francis Molenhofer 60
Francis Molenhofer 80
Gene & Marjorie Olson 160
Thomas & Joan Reardon 186
Steven Flynn 84

Kinsella

LS Kinsella 3

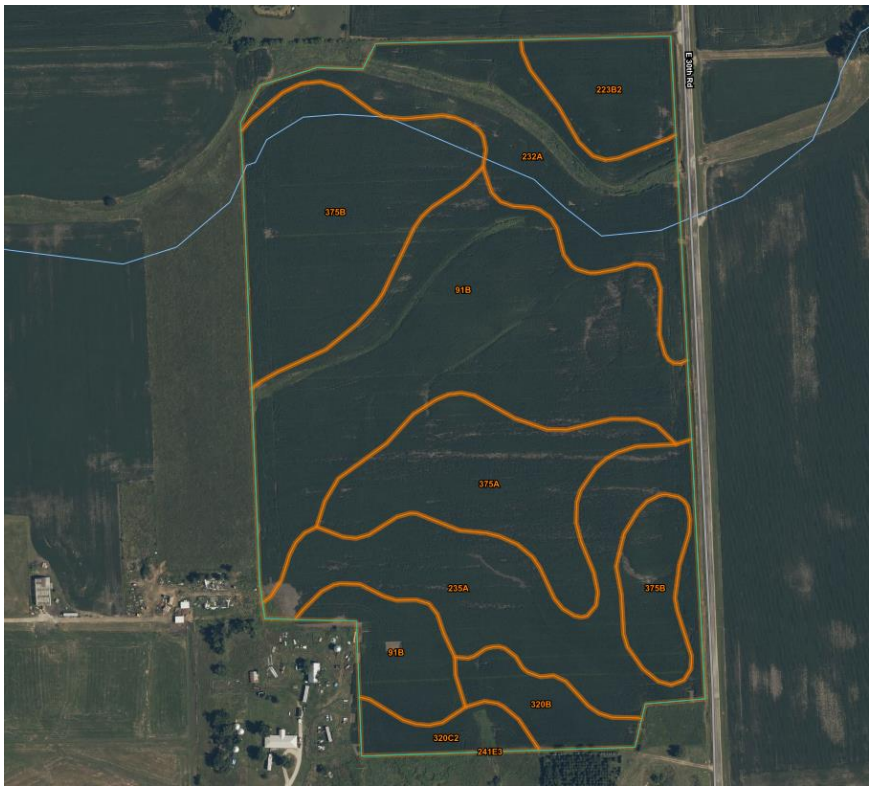
57 acres

LaSalle County

Manlius Township

Section 12

91B	Swygert silty clay loam, 2 to 4 percent slopes	17.6	30.2%	.02 to 0.06 in/hr
223B2	Varna silt loam, 2 to 4 percent slopes, eroded	2.8	4.8%	.06 to 0.20 in/hr
232A	Ashkum silty clay loam, 0 to 2 percent slopes	7.8	13.4%	.20 to 0.60 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	9.1	15.6%	.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 - 20 percent slopes,severely eroded	0.0	0.0%	.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	1.9	3.2%	.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	1.4	2.4%	.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	6.7	11.5%	.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	11.0	18.9%	.02 to 0.06 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, August 02, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240140-2 is in Table 1. Stewart Spreading identified the samples as KA Hamman 19 (Soil), LS Kinsella 3 (Soil), and CO Pleckham 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs		
	G240140	G240141	G240142
	KA Hamman 19 (Soil)	LS Kinsella 3 (Soil)	CO Pleckham 1 (Soil)
Ac-228	0.93	0.92	1.21
Ra-228[1]	0.93	0.92	1.21
Pb-214	< 0.06^	< 0.06^	0.81
Bi-214	0.99	0.75	0.86
Ra-226[2]	0.99	0.75	0.83
Total Radium[3]	1.93	1.67	2.04

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	LS Kinsella 3	COUNTY:	LaSalle
ACREAGE:	57	TOWNSHIP:	Manlius
		SECTION:	12
FARMER:	Mike Kinsella		
ADDRESS:			
PHONE #:			

Source of biosolids

1 Village of Addison-Aerobic
2 Hasma Lagoon 29
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June 24	0	0.04	0.09	0	0	0.04	0	0	0	0		
2	June 24	0.09	10.47	10.93	1.03	1.91	19.38	0.22	0.01	0.22	0.39		
3	June 24	0.008	0.047	0.704	0.024	0.008	0.083	0	0	0	0	0.014	
		0.1	10.56	11.72	1.05	1.92	19.5	0.22	0.01	0.22	0.39	0.014	
	%of LIMIT	1	4.2	1.3	1.1	0.2	3.9	0.2	0.1	2.8	2.4		

1	Background Radium	1.670	pci/g
2	Site Limit	2.670	pci/g
3	Cumulative Total to Date	1.684	pci/g
4	% of Total Cumulative Limit	63.07	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: KA Hamman 19

6.) Size of Area Where Lime Residuals are to be Used: 140 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: CO Pleckham 1

6.) Size of Area Where Lime Residuals are to be Used: 219 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

SPREADING

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

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The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: April 9, 2024

2.) Name of User: Mike Kinsella

3.) Address of User: 43W510 Kenmar Drive

4.) Phone Number of User: 630-327-2129

5.) Location Where Sludge is to be Used: LS Kinsella 3

6.) Size of Area Where Lime Residuals are to be Used: 57 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

4/9/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	5	Township *(Number and Direction)*	T34N
Tillable Acres	134	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Gunderson 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.75	+ / -	0	Radium-228	0.77	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/8/24 and 7/9/24	74.91	.56	134	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LS Gunderson 1 PIN

16-05-101-000

16-05-102-000

16-05-301-000

16-05-302-000

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **July 2024**

Biosolids Field Record

Site: LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/8/2024	7/8/2024	City of Aurora - Lime	112.87	35.68	40.27
7/9/2024	7/9/2024	City of Aurora - Lime	97.07	35.68	34.63
Total			209.94		74.91

Biosolids Field Record

Site: LS Firrantello 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/8/2024	7/9 and 7/12/24	City of Aurora - Lime	782.28	35.68	279.12
Total			782.28		279.12

Biosolids Field Record

Site: LS Firantello 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/9/2024	7/12/2024	City of Aurora - Lime	623.22	35.68	222.36
Total			623.22		222.36

Biosolids Field Record

Site: LS Santoro 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/12/2024	7/12/2024	City of Aurora - Lime	593.31	37.82	224.39
7/19/2024	7/19/2024	City of Aurora - Lime	350.52	37.66	132.01
Total			943.83		356.40

Biosolids Field Record KE Moe 7					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/22/2024	7/22/2024	City of Aurora - Lime	576.71	46.25	266.73
7/23/2024	7/23/2024	City of Aurora - Lime	66.69	36.88	24.60
Total			643.40		291.32

Biosolids Field Record Site: KE Moe 11					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	7/25/2024	City of Aurora - Lime	544.2	42.03	228.73
Total			544.20		228.73

Biosolids Field Record Site: KE Johnson 1					
Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	7/25/2024	City of Aurora - Lime	465.16	42.03	195.51
Total			465.16		195.51

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

John Stewart

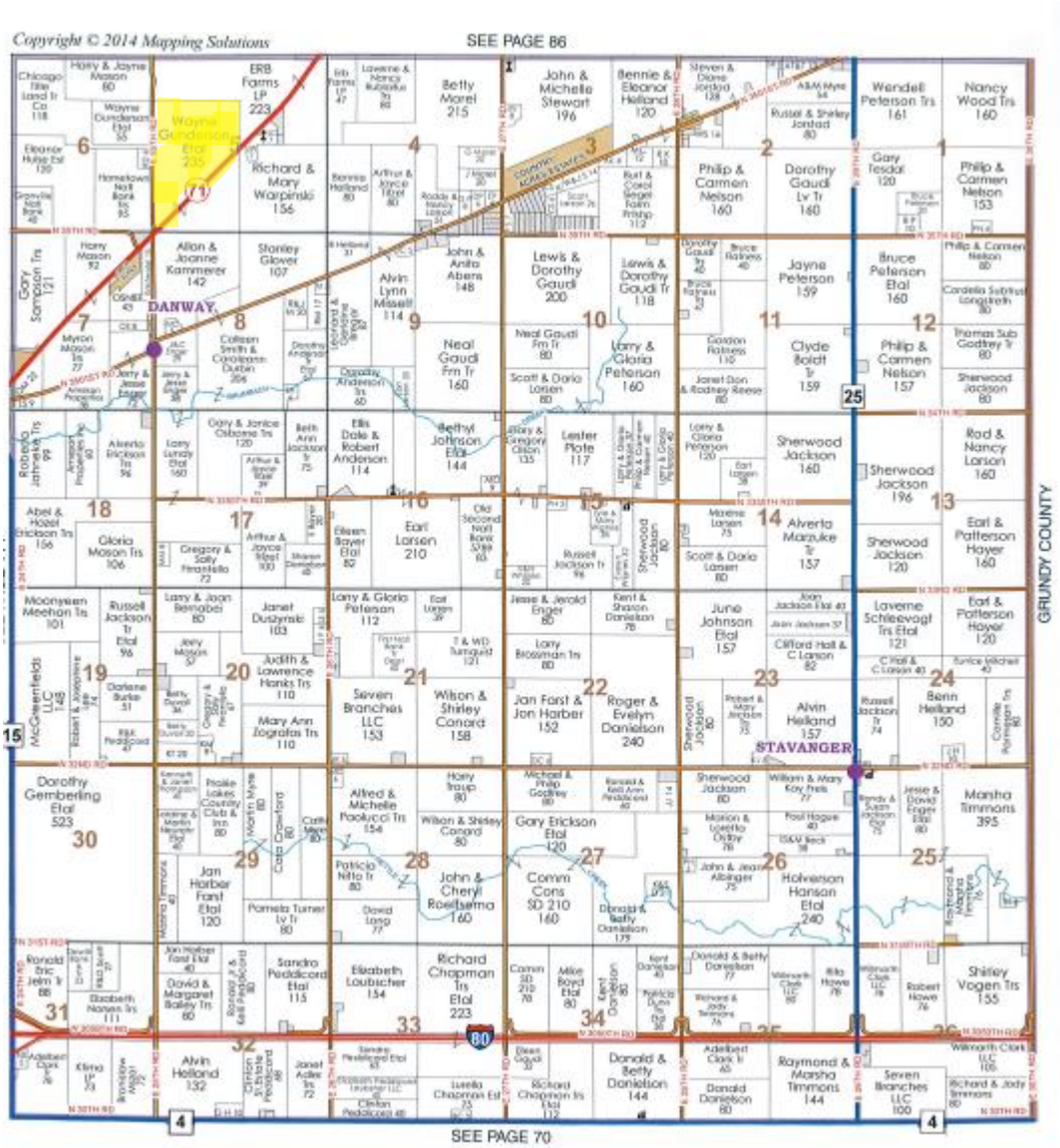
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230145-8 is in Table 1. Stewart Spreading identified the samples as KE Dhuse 5 (soil), LS Gunderson 1 (soil), KE Dhuse 2 (soil), and KE Seth Sleezer 7 (soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
	KE Dhuse 5 (soil)	LS Gunderson 1 (soil)	KE Dhuse 2 (soil)	KE Seth Sleezer 7 (soil)
Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 27
3 Marathon Lag 25 w/cells 2, 3, 4
4 DuPage
5 Lasma Lagoon 28
6 Glendale Height

Metal Loadings in Pounds per Ac

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
2	May-23	0.030	4.940	6.370	0.530	0.990	9.820	0.030	0.010	0.110	0.160					2867.02	733.96
3	May-23	0.030	4.390	6.190	0.380	0.850	7.450	0.030	0.010	0.090	0.120					2073.1	611.56
4	May-23	0.000	0.190	0.090	0.010	0.010	0.220	0.000	0.000	0.000	0.000					150	18.85
5	Oct-23	0.040	6.220	6.880	0.600	1.560	13.140	0.040	0.010	0.150	0.250					3920.49	987.96
2	Jul-24	0.020	3.000	3.500	0.280	0.580	6.150	0.080	0.000	0.080	0.100					2489.43	517.8
1	Jul-24	0.002	0.022	0.141	0.010	0.002	0.028	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			209.94	74.91
6	Aug-24	0.000	0.020	0.010	0.000	0.000	0.050	0.000	0.000	0.000	0.000				20		2.75
	TOTAL	0.13	18.85	23.9	1.84	4	36.96	0.18	0.03	0.43	0.63	0.016	pci/g				
	%of LIMIT	1.3	7.5	2.7	1.8	0.4	7.4	0.2	0.1	5.4	3.9						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.536	pci/g
4	% of Total Cumulative Limit	60.95	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	14-14-100-002,15-14-103-000
Section Number	14	Township *(Number and Direction)*	T34N
Tillable Acres	93	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Firrantello 3	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.09	+ / -	0.19	Radium-228	ND	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/9/24 and 7/12/24	279.12	3.0	93	7.6	4.7

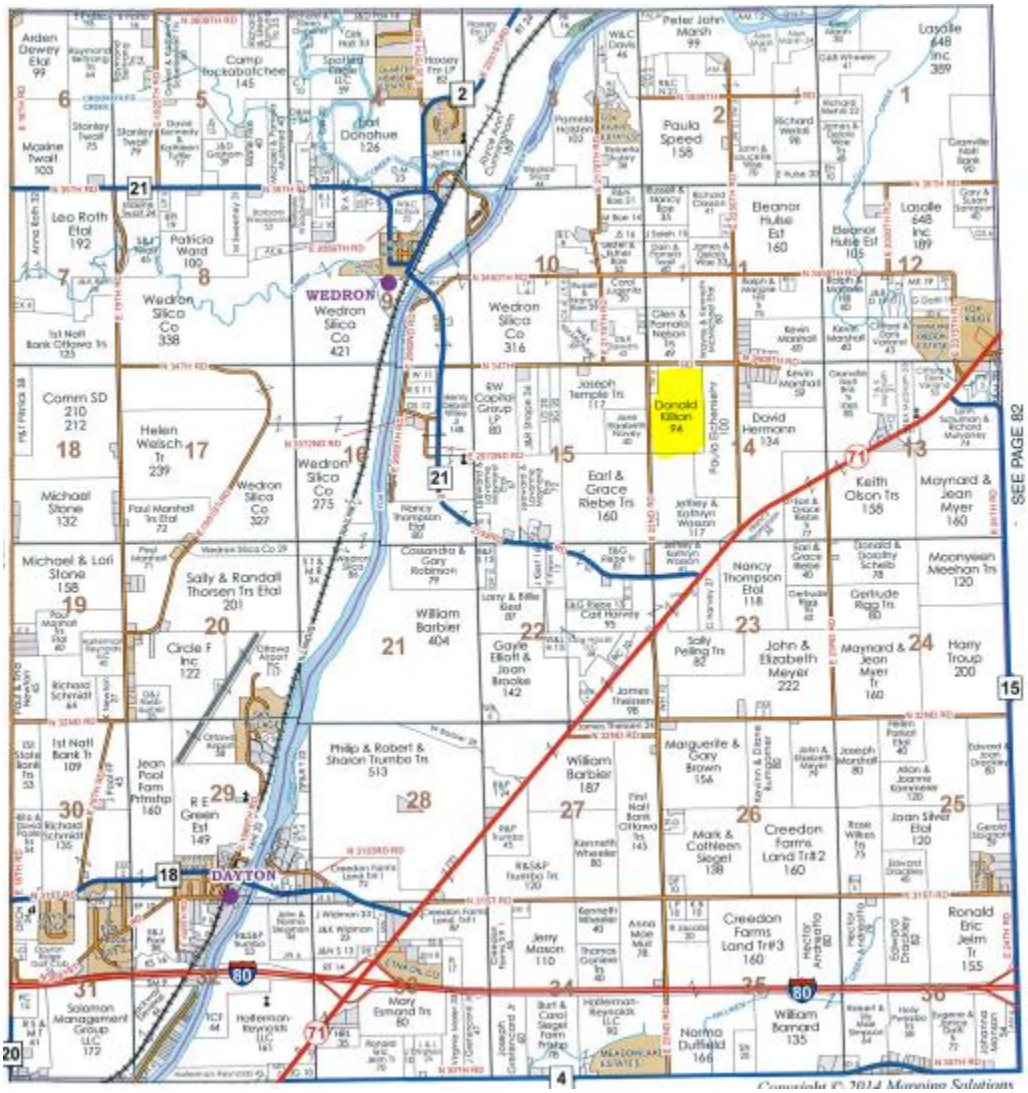
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Spirit Farms

LS Firr 3
93 acres
LaSalle County
Rutland Township
Section 14



Greg Firrantello

LS Firrantello 3
93 acres
LaSalle County
Rutland Township
Section 14

91B	Swygert silty clay loam, 2 to 4 percent slopes	4.7	5.5%	0.02 to 0.06 in/hr
91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded	14.0	16.3%	0.02 to 0.06 in/hr
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	49.2	57.5%	0.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	0.1	0.1%	0.02 to 0.06 in/hr
375A	Rutland silty clay loam, 0 to 2 percent slopes	0.0	0.0%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.5	7.6%	0.02 to 0.06 in/hr
375B2	Rutland silty clay loam, 2 to 5 percent slopes, eroded	5.0	5.9%	0.02 to 0.06 in/hr
435A	Streator silty clay loam, 0 to 2 percent slopes	6.0	7.0%	0.02 to 0.20 in/hr



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Background

Report Date: November 16, 2021
Workorder: **2110M47**

Client Sample ID: KE Seth Sleezer 3
Lab ID: 2110M47-004 **Date Received:** 10/25/2021 10:18 AM

Matrix: SOIL
Collection Date: 06/10/2021 2:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: EM	
Radium-226	1.73 ±0.26	0.50		pCi/g	1	11/15/2021 10:31 AM	78158
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: EM	
Radium-228	ND	0.50		pCi/g	1	11/11/2021 2:34 PM	77984

Client Sample ID: LS Firr 3
Lab ID: 2110M47-005 **Date Received:** 10/25/2021 10:18 AM

Matrix: SOIL
Collection Date: 02/23/2021 11:20 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: EM	
Radium-226	1.09 ±0.19	0.50	H	pCi/g	1	11/15/2021 10:31 AM	78158
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: EM	
Radium-228	ND	0.50	H	pCi/g	1	11/11/2021 2:34 PM	77984

Client Sample ID: KE Dhuse 5
Lab ID: 2110M47-006 **Date Received:** 10/25/2021 10:18 AM

Matrix: SOIL
Collection Date: 09/10/2021 3:36 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: EM	
Radium-226	0.74 ±0.13	0.50	J	pCi/g	1	11/15/2021 10:31 AM	78158
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: EM	
Radium-228	1.58 ±0.34	0.50		pCi/g	1	11/11/2021 2:34 PM	77984

Created: 11/16/2021 4:20:23 PM

METAL LOADING RECORD

SITE NUMBER: 3
ACREAGE: 93
COUNTY: LaSalle
TOWNSHIP: Rutland
SECTION: 14

FARMER: Greg Firrantello
ADDRESS: 18422 Locust Street
Lansing, IL 60438
PHONE #: 630-768-3109

Source of biosolids
1 Lasma Lagoon 28
2 Lasma Lagoon 29
3 Lasma Lagoon 27
4 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-21	0.03	6.59	7.69	0.74	1.2	11.27	0.2	0	0.15	0.23		pci/g			3575.92	722.34
1	21-May	0	0.31	0.35	0.03	0.06	0.52	0.01	0	0.01	0.01					111.1	22.55
1	21-Sep	0.04	3.58	4.26	0.32	0.74	7.11	0.08	0	0.08	0.12					1705.71	378.67
2	21-Sep	0.02	2.35	2.97	0.21	0.4	4.12	0.05	0	0.05	0.07					1005.22	238.24
2	22-Jul	0.07	7.28	8.9	0.65	1.25	12.53	0.18	0.01	0.18	0.21					3072.71	838.85
3	22-Jul	0	0.19	0.23	0.02	0.04	0.38	0.01	0	0.01	0					115.02	25.65
4	22-Jul	0.004	0.057	0.621	0.026	0.004	0.092	0	0	0	0	.011 pci/g	5.38 pci/g			760.24	360.33
1	Oct-23	0.05	6.39	7.07	0.62	1.6	13.51	0.05	0.01	0.15	0.26					2848.07	717.71
1	July.24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21					3456.25	670.51
4	July.24	0.009	0.116	0.756	0.052	0.009	0.151	0	0	0	0	0.0190	12.3 pci/g			782.28	279.12
	TOTAL	0.28	32.57	39.43	3.21	6.25	61.06	0.74	0.03	0.77	1.11	0.019					
	%of LIMIT	2.8	13	4.4	3.2	0.6	12.2	0.7	0	9.6	6.9						

Background Radium	1.090	pci/g
Site Limit	2.090	pci/g
Cumulative total to Date	1.110	pci/g
% of Total Cumulative Limit	53.06	%

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	16-17-303-000
Section Number	17	Township *(Number and Direction)*	T34N
Tillable Acres	70	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Firrantello 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.995	+ / -	0.160	Radium-228	0.853	+ / -	0.230

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/12/24	222.36	3.2	70	7.6	4.7

5. I certify the information provided above is accurate,

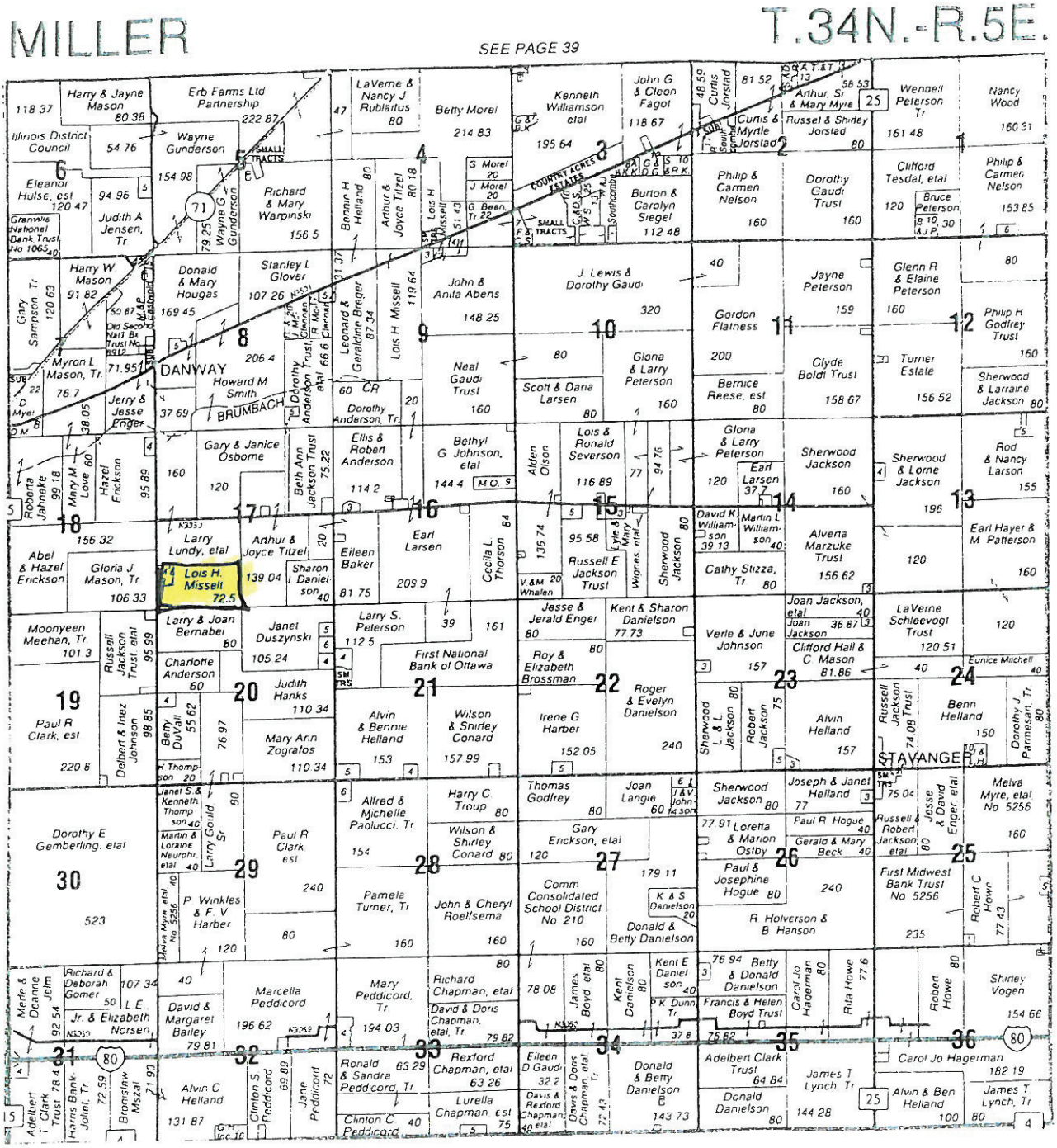
Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

Greg Firrantello
18422 Locust Street
Lansing, IL 60438
630-768-3109

Field – Firr 1
70 acres
LaSalle County
Miller Township
Section 17



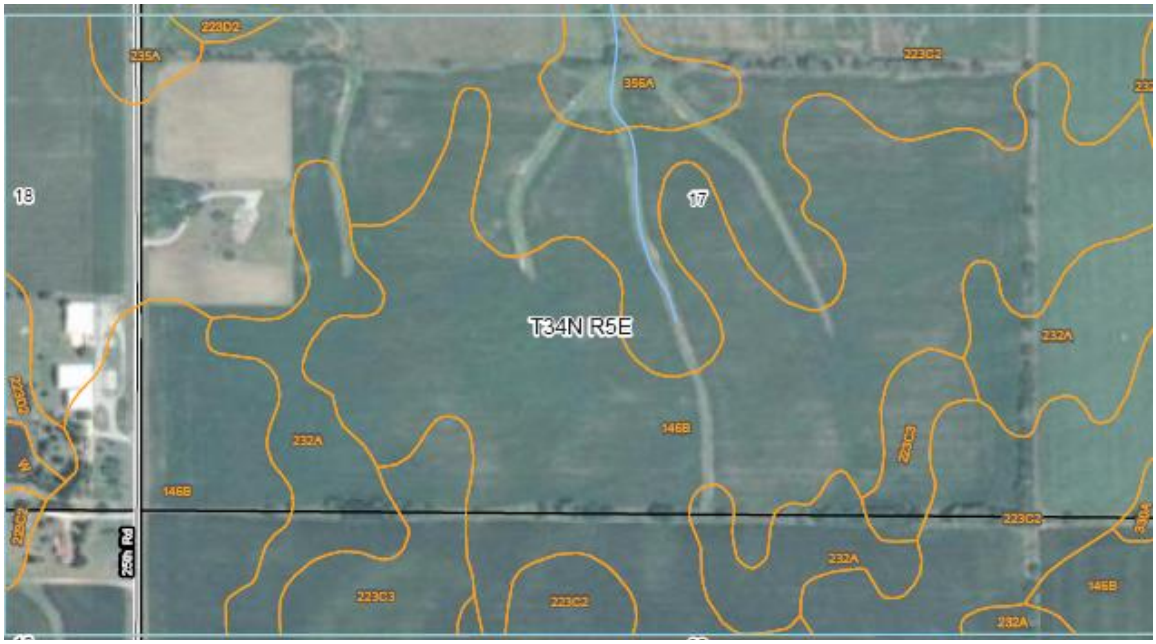
LRM1205

SOIL SERIES

Greg Firrantello
18422 Locust Street
Lansing, IL 60438
630-768-3109

Field – Firr 1
70 acres
LaSalle County
Miller Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiCL	4-6%	0.6-2.0 in/hr
Varna, 223D2	SiL	6-12%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Bryce, 235A	SiC	0-2%	0.6-2.0 in/hr
Peotone, 330A	SiCL	0-2%	0.2-0.6 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **18021150**

Date Reported: **3/16/2018**

CLIENT: Stewart Spreading, Inc
Collection Date: 7/7/2017 8:00:00 AM
Project: LS Firrantello
Lab ID: 18021150-001
Matrix: SOLID
Client Sample ID LS Firrantello

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.995	0.0258		pCi/g-dry	± 0.160	1	3/16/2018 10:36:00 AM
Radium-228	0.853	0.0775		pCi/g-dry	± 0.230	1	3/16/2018 10:36:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

FIELD CODE	LS FIRR 01	COUNTY:	LaSalle
SPREADABLE ACREAGE:	70	TOWNSHIP:	Miller
		SECTION:	17
FARMER:	Greg Firrantello		
ADDRESS:	367 Tyler Creek Court		
	Yorkville, IL 60560		
PHONE #:	630-768-3109		

Source of biosolids

1 Fox River Water Reclamation District
2 Glenbard Wastewater Authority
3 Marina Valley
4 City of Naperville
5 City of Plano
6 Santa Fe
7 Village of Plainfield
8 LASMA - Lagoon #28
9 LASMA - Lagoon #30
10 HASMA - Cell 3
11 LASMA - Marathon
12 Braidwood
13 Lasma Lagoon 29
14 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Molybdenum	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
Field Limit		10	250	900	100	1000	500	36	15	89	16						
1	Nov-08	0.003	0.37	0.25	0.03	0.02	0.41	0.02	0.001	0.00	0.02		pci/g				
2	Nov-08	0.02	5.15	0.81	0.13	0.42	6.76	0.02	0.01	0.01	0.09						
3	Nov-08	0.01	3.50	1.67	0.07	0.04	2.71	0.02	0.01	0.00	0.02						
4	Nov-08	0.004	1.70	0.70	0.05	0.06	2.20	0.01	0.003	0.02	0.04						
5	Nov-08	0.002	2.37	0.36	0.15	0.13	1.39	0.00	0.003	0.02	0.01						
6	Nov-08	0.00	3.85	0.69	0.11	0.22	2.84	0.00	0.00	0.00	0.00						
4	Jan-09	0.004	1.70	0.70	0.05	0.06	2.20	0.01	0.003	0.02	0.04						
6	Jan-09	0.02	1.16	0.60	0.06	0.05	1.78	0.00	0.00	0.00	0.14						
4	Mar-09	0.003	1.51	0.66	0.05	0.05	2.03	0.00	0.002	0.02	0.03						
7	May-09	0.00	0.33	0.15	0.01	0.01	0.28	0.00	0.001	0.01	0.01						
8	Nov-09	0.06	6.97	12.38	0.75	2.52	15.54	0.19	0.02	0.15	0.22						
9	Jun-11	0.04	5.28	7.16	0.50	1.11	9.42	0.60	0.01	0.11	0.13						
10	Aug-11	0.00	0.45	0.41	0.04	0.03	0.57	0.01	0.00	0.01	0.00					110.39	22.52
9	Apr-12	0.05	4.54	5.37	0.46	1.30	9.12	0.09	0.01	0.06	0.18					1,468.39	393.53
9	Nov. 2012	0	0.45	0.46	0.04	0.10	0.82	0.01	0	0.01	0.01					145.29	32.69
11	Nov. 2012	0.06	5.91	6.75	0.61	1.83	11.92	0.11	0.02	0.08	0.14					1,127.97	530.15
9	Dec. 2012	0.00	0.30	0.31	0.03	0.07	0.55	0.01	0.00	0.00	0.01					109.04	24.53
7	Nov. 2016	0.05	2.90	1.78	0.21	0.05	3.84	0.09	0.01	0.01	0.07				2675.00		317.27
7	Dec.2017	0.04	0.04	0.04	0.04	0.04	0.07	0.04	0.00	0.07	0.07				1800.00		261.78
12	Dec.2017	0.03	7.41	10.95	0.031	0.36	9.68	0.03	0.01	0.09	0.09				925.00		278.01
8	Oct-19	0.07	9.15	13.15	0.980	1.83	18.61	0.35	0.01	0.11	0.26					2,459.60	787.07
8	Jul-20	0.04	5.43	7.56	0.510	1.06	9.78	0.10	0.01	0.06	0.19					2,438.30	448.65
13	Sep-21	0.04	6.32	7.98	0.560	1.08	11.07	0.14	0.00	0.14	0.20					2,103.82	498.61
8	Jul-22	0.06	5.31	6.09	0.550	0.94	9.56	0.14	0.01	0.14	0.20					2,463.44	509.93
14	Jul-22	0.006	0.080	0.882	0.037	0.006	0.131	0.000	0.000	0.000	0.000	0.0150	5.38 pci/g			588.64	386.15
8	Oct-23	0.020	3.200	3.530	0.310	0.800	6.750	0.020	0.000	0.080	0.130					1,056.27	266.18
14	Jul-24	0.010	0.124	0.806	0.056	0.010	0.161	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			623.22	222.36
	TOTAL	0.633	85.504	92.198	6.424	14.196	140.192	2.01	0.142	1.219	2.3	0.035					
	% of LIMIT	6.3%	34.2%	10.2%	6.4%	1.4%	28.0%	5.6%	0.9%	1.4%	14.4%						

Background Radium	1.848	pci/g
Site Limit	2.848	pci/g
Cumulative total to Date	1.883	pci/g
% of Total Cumulative Limit	66.12	%

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	17	Township *(Number and Direction)*	T34N
Tillable Acres	114	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Santoro 5	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	1.18	+/-	0	Radium-228	1.26	+/-	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/12/24 and 7/19/24	356.40	3.1	114	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1209

LS Santoro PIN

16-17-100-000

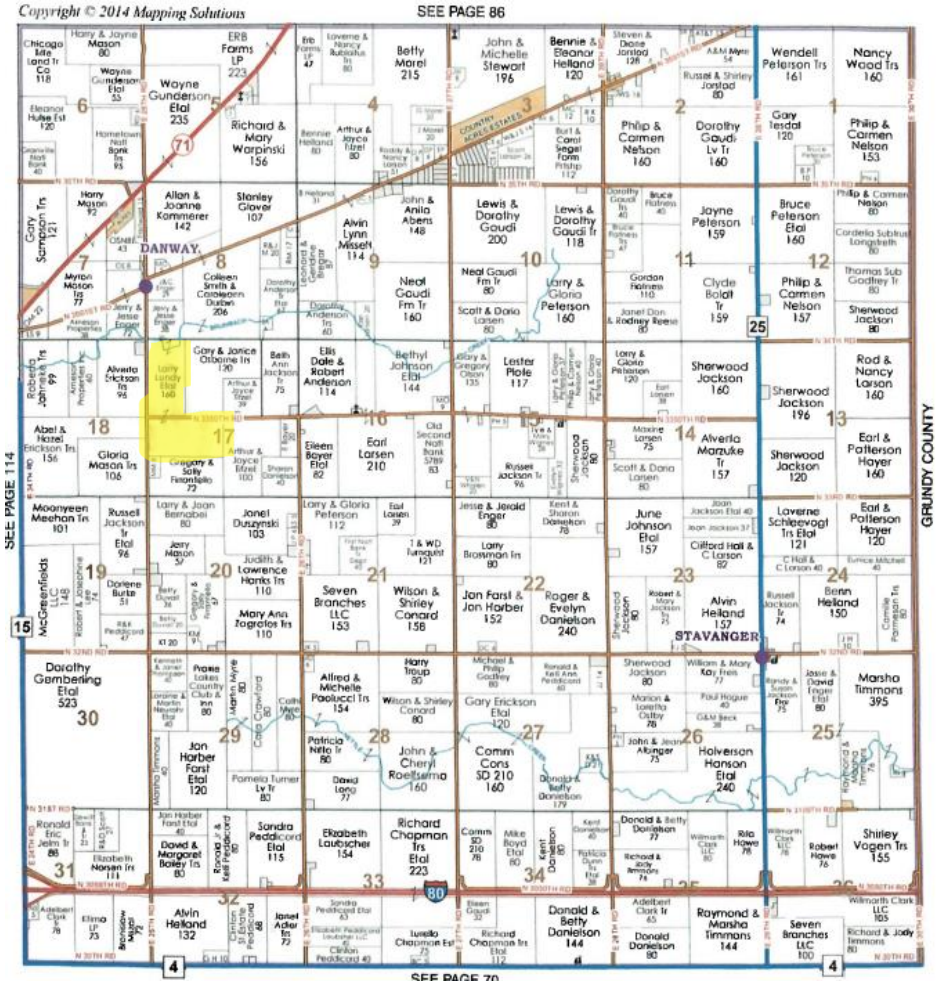
15-17-100-001

15-17-300-001

16-17-300-000

Santoro

Field 5
114 acres
LaSalle County
Miller Township
Section 17



SOIL SERIES

Santoro

Field 5
114 acres
LaSalle County
Miller Township
Section 17

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiCL	4-6%	0.6-2.0 in/hr
Varna, 223D2	SiL	6-12%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Bryce, 235A	SiC	0-2%	0.6-2.0 in/hr
Peotone, 330A	SiCL	0-2%	0.2-0.6 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, August 21, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240148-9 is in Table 1. Stewart Spreading identified the samples as Rochelle 220 (Soil) and LS Santoro 5 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID	
	G240148	G240149
	Rochelle 220 (Soil)	LS Santoro 5 (Soil)
Ac-228	1.27	1.26
Ra-228[1]	1.27	1.26
Pb-214	0.79	< 0.07^
Bi-214	0.85	1.18
Ra-226[2]	0.82	1.18
Total Radium[3]	2.09	2.43

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: LS Santoro 5
ACREAGE: 114
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 17

FARMER: Frank Santoro
ADDRESS: 2080 Simons Road
Oswego, IL 60543

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	July 2024	0.070	6.2400	7.200	0.590	1.040	12.450	0.17	0.01	0.15	0.23					4658.18	903.69	
2	July 2024	0.009	0.120	0.781	0.054	0.009	0.156	0.00	0.00	0.00	0.00	0.019	12.3 pci/g			943.83	356.4	
TOTAL		0.079	6.360	7.981	0.644	1.049	12.606	0.17	0.01	0.15	0.23	0.019						
%of LIMIT		0.8	2.5	0.9	0.6	0.1	2.5	0.2	0	1.9	1.4							

1	Background Radium	2.440	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.459	pci/g
4	% of Total Cumulative Limit	81.97	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-30-200-003,07-30-200-004
Section Number	30	Township *(Number and Direction)*	T35N
Tillable Acres	67	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Moe 7

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.807	+/-	0.150	Radium-228	0.450	+/-	0.160

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/22/24 and 7/23/24	291.32	4.3	67	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

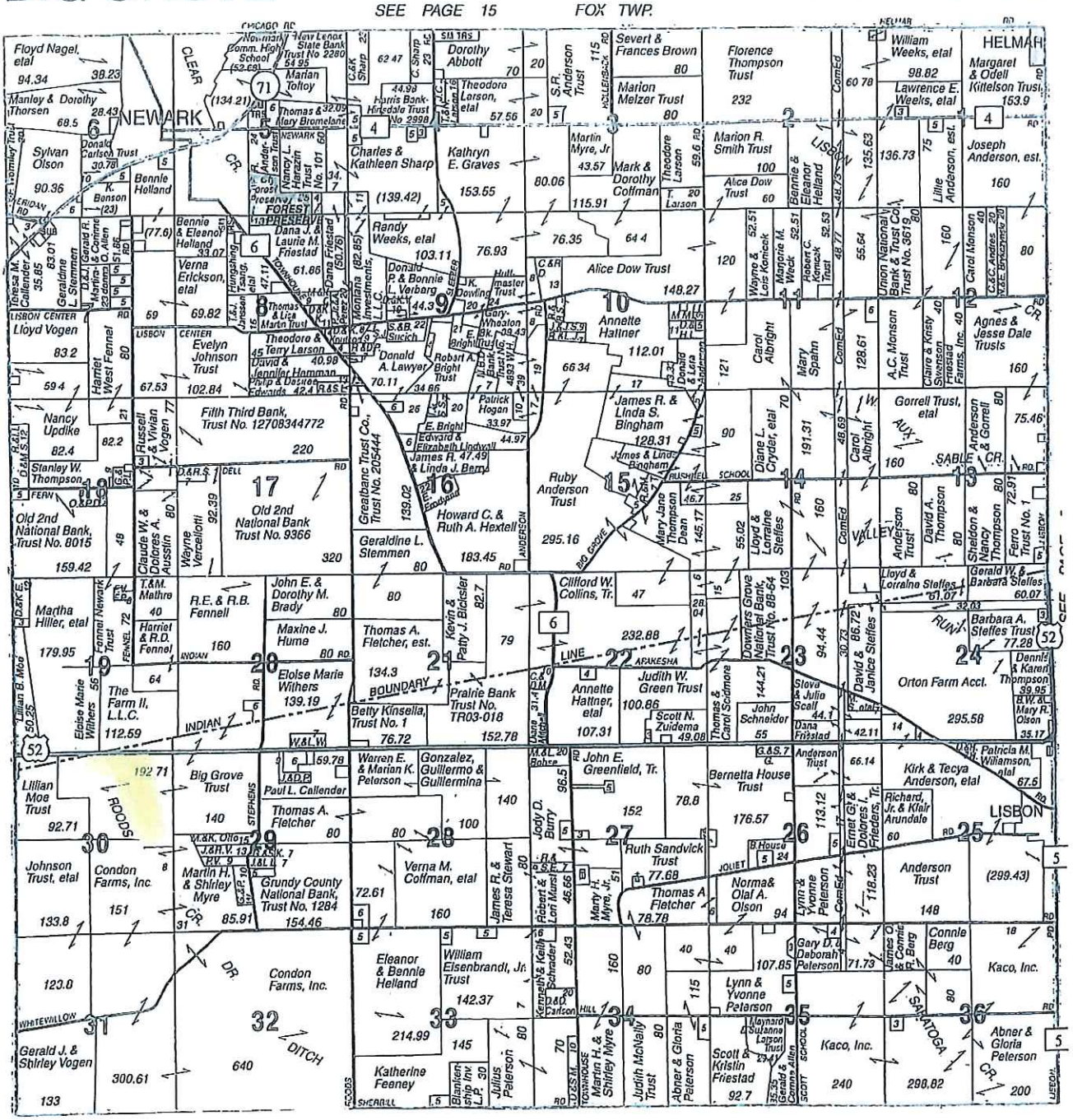
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 7
67 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.


SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON CENTER
Floyd Nagel, etal
Manley & Dorothy Thorsen
Sylvan Olson
Donald Carlson Trust
K. Benson
Bennie Holland
Geraldine L. Stemmen
Theresa M. Callender
Lloyd Vogen
Harriet West Fennel
Nancy Updike
Stanley W. Thompson
Old 2nd National Bank, Trust No. 8015
Martha Hiller, etal
Fennel Newark Trust
Lillian B. Moe
Eloise Marie Withers
The Farm II, L.L.C.
Lillian Moe Trust
Johnson Trust, etal
Condon Farms, Inc.
Gerald J. & Shirley Vogen
Marian Tofloy
Thomas & Mary Bromeland
Nancy L. Harazin Trust No. 101
Dana J. & Laurie M. Friestad
Dana Friestad (50.76)
Verna Erickson, etal
Thomas & Lisa Martin Trust
Evelyn Johnson Trust
Theodore & Terry Larson
David & Jennifer Hamman
Philip & Desiree Edwards
Fifth Third Bank, Trust No. 12708344772
Russell & Vivian Vogen
Old 2nd National Bank Trust No. 9366
Claude W. & Dolores A. Ausstin
Wayne Vercelloti
T.&M. Mathre
R.E. & R.B. Fennell
Harriet & R.D. Fennel
The Farm II, L.L.C.
Big Grove Trust
Paul L. Callender
Martin H. & Shirley Myre
Grundy County National Bank, Trust No. 1284
Condon Farms, Inc.
Dorothy Abbott
Theodoro Larson, etal
Harris Bank Hinsdale Trust No 2998
Charles & Kathleen Sharp
Kathryn E. Graves
Randy Weeks, etal
Donald P. & Bonnie Verberg
Montana Investments, LLC
Donald A. Lawyer
Greatbanc Trust Co., Trust No. 205444
Geraldine L. Stemmen
Howard C. & Ruth A. Hextell
Robert A. Bright Trust
Patrick Hogan
E. Bright
Edward & Elizabeth Lindvall
James R. & Linda J. Barry
Thomas A. Fletcher, est.
Kevin & Patty J. Bickster
Prairie Bank Trust No. TR03-018
Betty Kinsella, Trust No. 1
Eloise Marie Withers
Warren E. & Marian K. Peterson
Gonzalez, Guillermo & Guillermina
Verna M. Coffman, etal
James R. & Teresa Stewart
Eleanor & Bennie Holland
William Eisenbrandt, Jr. Trust
Katherine Feeney
Julius Peterson
S.R. Anderson Trust
Severt & Frances Brown
Marion Melzer Trust
Martin Myre, Jr
Mark & Dorothy Coffman
Alice Dow Trust
Annette Hattner
Ruby Anderson Trust
James R. & Linda S. Bingham
Clifford W. Collins, Tr.
Annette Hattner, etal
Judith W. Green Trust
Scott N. Zuidema
Ruth Sandvick Trust
Thomas A Fletcher
John E. Greenfield, Tr.
Bernetta House Trust
Florence Thompson Trust
Marion R. Smith Trust
Alice Dow Trust
Carol Albright
Diane L. Cryder, etal
Mary Spahn
Lloyd & Lorraine Steffes
Downers Grove National Bank, Trust No. 88-84
Thomas & Carol Scidmore
John Schneider
Slova & Julia Scalf
Dana Friestad
Norma & Olaf A. Olson
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
Scott & Kristin Friestad
Judith McNally Trust
Abner & Gloria Peterson
Martin H. & Shirley Myre
William Weeks, etal
Margaret & Odell Kittelson Trust
Lawrence E. Weeks, etal
Joseph Anderson, est.
Lillie Anderson, est.
Union National Bank & Trust Co. Trust No. 3619
Carol Monson
Agnes & Jesse Dale Trusts
A.C. Monson Trust
Claire & Kristy Svenson
Friestad Farms, Inc.
Gorrell Trust, etal
Anderson & Gorrell
David A. Thompson
Sheldon & Nancy Thompson
Ferro Trust No. 1
Lloyd & Lorraine Steffes
Gerald W. & Barbara Steffes
Barbara A. Steffes Trust
Dennis & Karen Thompson
B.W. & Mary R. Olson
Orton Farm Acct.
David & Janice Steffes
Kirk & Tecya Anderson, etal
Richard, Jr. & Klair Arundale
Ernest G. & Dolores I. Frieders, Tr.
Anderson Trust
Connie Berg
Kaco, Inc.
Abner & Gloria Peterson
Maynard Sulzanna Larson Trust
Patricia M. Williamson, etal
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
James O. & Connie R. Berg
Kaco, Inc.
Scott & Kristin Friestad
Donald & Lora Anderson
Mary Jane Thompson Dean
Lloyd & Lorraine Steffes
Downers Grove National Bank, Trust No. 88-84
Dana Friestad
Anderson Trust

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 7
67 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Drummer, 152A	SiCL	0-2%
Elburn, 198A	SiL	0-2%
Varna, 223D3	SiCL	6-12%
Blackberry, 679B	SiL	2-5%
Hennepin- Casco, 820E	Complex	12-30%



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20080963**

Date Reported: **10/28/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 6/3/2020 9:30:00 AM
Project: Aurora Lime
Lab ID: 20080963-001
Matrix: SOLID
Client Sample ID: KE MOE 4,10,7,5

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-228	0.450	0.0600		pCi/g	± 0.160	1	9/29/2020 11:28:00 AM
RADIUM-226 ANALYSIS (9315)				**SW9315**	**E903-904**		Analyst: **HDJ**
Radium-226	0.807	1.00	J	pCi/g-dry	± 0.150	1	10/20/2020
Yield	1.00			pCi/g-dry		1	10/20/2020

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 67
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 30

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Metal Loadings in Pounds per Acr

Source of biosolids
1 LASMA - Lagoon #30
2 DuPage
3 LASMA-Lagoon 29
4 LASMA-Lagoon 28
5 LASMA- Cell 2 and 5
6 Aurora Lime
7 LASMA-Lagoon 27
8 Glendale Heights

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**Mar. 2012**	0.08	7.63	35.32	0.76	2.18	15.32	0.19	0.02	0.1	0.31					2652.58	710.89
2	**July 2012**	0	0.92	0.65	0.02	0.05	1.07	0	0	0.01	0.02					300	38.21
2	**October 2012**	0.01	5.08	2.92	0.14	0.26	6.67	0.03	0.01	0.04	0.08					1400	190.18
2	**Nov 2012**	0.01	2.91	1.67	0.08	0.15	3.81	0.01	0	0.03	0.05					800	108.672
3	Nov-16	0.03	3.64	2.72	0.37	0.83	7.47	0.04	0.01	0.04	0.16					1350.34	288.97
4	Aug-17	0.03	3.5	2.56	0.35	0.93	7.4	0.06	0	0.04	0.05	0.006	4.1 pci/g			1040.43	261.15
2	Oct-18	0.01	3.07	2.18	0.17	0.19	4.4	0.02	0	0.03	0.06				1000		132.44
2	Nov-18	0	2.25	1.6	0.13	0.14	3.23	0.02	0	0.02	0.05				800		105.96
5	Jul-20	0.07	9.7	13.31	0.97	2.02	19.4	0.29	0.01	0.11	0.26					2768.46	747.48
4	Jul-20	0	0.05	0.07	0.01	0.01	0.11	0	0.01	0	0	0.006	pci/g		20.48		3.77
5	Sep-21	0.06	8	8.71	0.77	1.81	15.61	0.19	0.01	0.19	0.27					1950.89	649.65
2	Jul-22	0	0.07	0.05	0	0	0.09	0	0	0	0				25.00		3.54
4	Jul-22	0.05	4.78	5.49	0.49	0.85	8.62	0.13	0.01	0.13	0.18					2132.04	441.33
6	Jul-22	0.003	0.046	0.507	0.021	0.003	0.075	0	0	0	0	0.009				544.81	211.77
7	Sep-23	0.03	3.94	5.45	0.42	0.81	7.76	0.03	0	0.09	0.13					1153.37	317.18
7	Oct-23	0.04	2.57	5.04	0.25	0.54	5.22	0.06	0.01	0.06	0.09					860.97	208.35
8	Jul-24	0	0.09	0.06	0.01	0	0.22	0	0	0	0				40.00		5.50
4	Jul-24	0.05	4.64	5.36	0.44	0.77	9.26	0.13	0	0.12	0.17					2015.11	390.13
6	Jul-24	0.013	0.166	1.084	0.075	0.013	0.216	0	0	0	0	0.027	12.3 pci/g			643.40	291.32
	TOTAL	0.473	62.886	93.667	5.401	11.543	115.735	1.2	0.09	1.01	1.88	0.048					
	%of LIMIT	4.7	25.2	10.4	5.4	1.2	23.1	1.2	0.1	12.6	11.7						

Background Radium	1.257	pci/g
Site Limit	2.257	pci/g
Cumulative Total to Date	1.305	pci/g
% of Total Cumulative Limit	57.82	%

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-17-300-003
Section Number	17	Township *(Number and Direction)*	T35N
Tillable Acres	63	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Moe 11

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.97	+ / -	0	Radium-228	1.40	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/25/24	228.73	3.6	63	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1220

Benjamin H. Moe

415 Walnut Street

Yorkville, IL 60560

(630) 553-2798

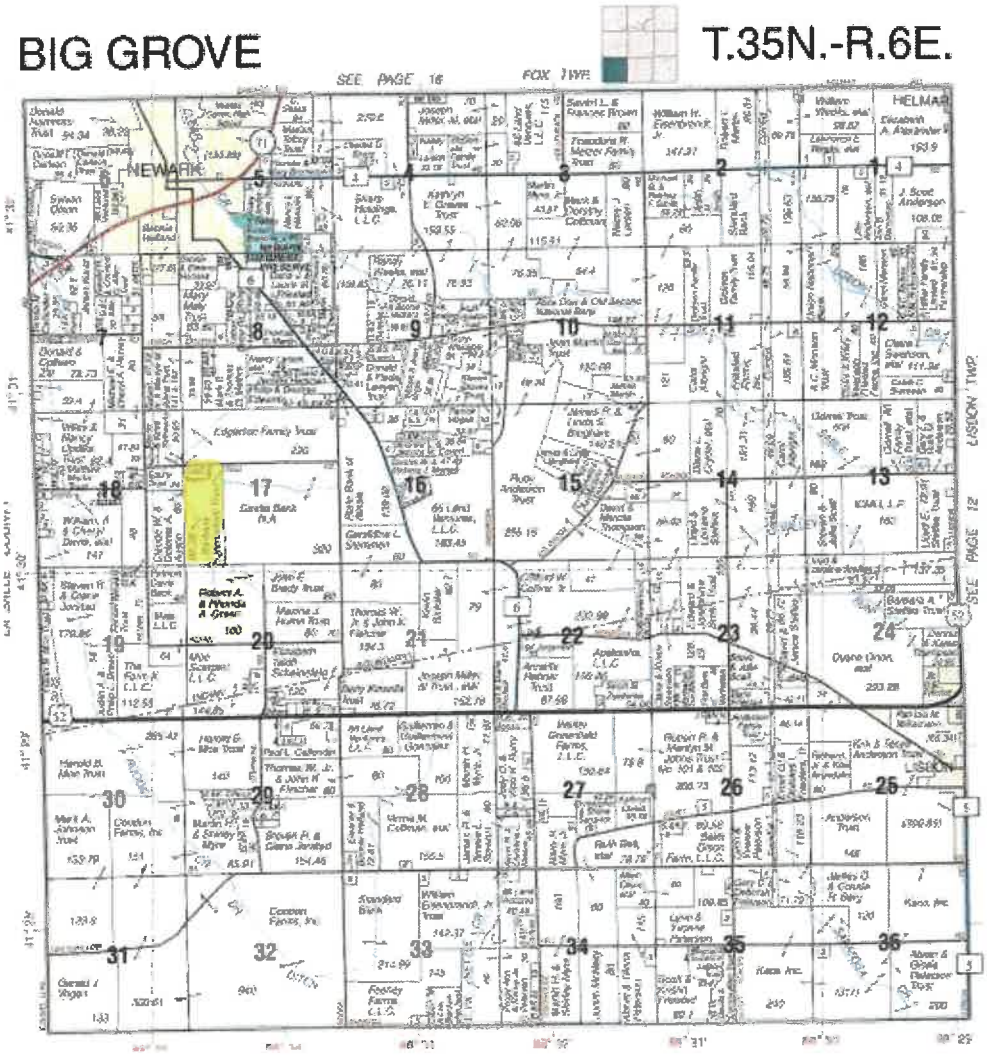
Field 11

63 acres

Kendall County

Big Grove Township

Section 17



Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 11
63 acres
Kendall County
Big Grove Township
Section 17

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	1.6	1.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	18.3	20.8%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	18.1	20.6%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	23.5	26.7%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	6.6	7.5%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	18.2	20.7%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	1.6	1.8%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, July 19, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230178-82 is in Table 1. Stewart Spreading identified the samples as KE Moe 11 (Soil), KE Kinsella-1 (Soil), LS Roberts 1 (Soil), Mitchell 600 (Soil), and Mt. Pulaski Biosolids (Biosolids), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radio-nuclide	Sample IDs				
	G230178	G230179	G230180	G230181	G230182
	KE Moe 11 (Soil)	KE Kinsella-1 (Soil)	LS Roberts 1 (Soil)	Mitchell 600 (Soil)	Mt. Pulaski Biosolids (Biosolids)
Ac-228	1.40	1.37	1.56	< 0.14	< 0.07
Ra-228[1]	1.40	1.37	1.56	< 0.14	< 0.07
Pb-214	0.97	1.05	< 0.07^	1.08	0.61
Bi-214	< 0.07^	0.92	1.13	1.33	< 0.04
Ra-226[2]	0.97	0.99	1.13	1.20	< 0.65
Total Radium[3]	2.38	2.36	2.68	< 1.35	< 0.73

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: KE Moe 11
ACREAGE: 63
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: John Stewart
ADDRESS: 3870 N IL Rt. 71
Sheridan, IL 60551
815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1	Sandwhich	10
2	Lasma Lagoon 28	11
3	Marathon lag 25 cells 2,3,4	
4	Lasma Lagoon 29	
5	Aurora Lime	
6	DuPage	
7	Naperville-Stockpile 1	
8	Village of Plainfield	
9	Glendale Heights	

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
2	May 2023	0.03	3.58	3.88	0.37	0.69	7.34	0.09	0.01	0.09	0.13		
3	May 2023	0.03	4.15	5.84	0.36	0.8	7.04	0.03	0.01	0.01	0.02		
4	May 2023	0	0.51	0.65	0.05	0.1	1	0	0	0.01	0.02		
1	June 2023	0	0.41	0.46	0.15	0.1	0.55	0.01	0	0	0.05		
5	June 2023	0.005	0.074	0.81	0.034	0.005	0.12	0	0	0	0	0.014	5.38 pci/g
6	June 2023	0	0.2	0.13	0.01	0.01	0.26	0	0	0	0		
7	Nov 2023	0.01	7.55	3.66	0.25	0.15	9.84	0.04	0.01	0.09	0.11		
8	Oct.Nov 23	0.006	0.48	0.3	0.03	0.01	0.76	0.01	0	0.01	0.01		
10	July.24	0	0.04	0.09	0	0	0.04	0	0	0	0		
11	July.24	0	0.13	0.04	0.01	0.01	0.19	0	0	0	0		
9	July.24	0	0.11	0.07	0.01	0	0.27	0	0	0	0		
2	July.24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21		
5	July.24	0.011	0.139	0.907	0.063	0.011	0.181	0	0	0	0	0.023	12.3 pci/g
	TOTAL	0.15	23.08	23.42	1.88	2.84	38.97	0.34	0.04	0.35	0.55	0.037	
	%of LIMIT	1.5	9.2	2.6	1.9	0.3	7.8	0.3	0.1	4.4	3.4		

1	Background Radium	2.380	
2	Site Limit	3.000	
3	Cumulative Total to Date	2.417	
4	% of Total Cumulative Limit	80.57	

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	30, 31	Township *(Number and Direction)*	T35N
Tillable Acres	236	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Johnson 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.540	+ / -	0.120	Radium-228	1.17	+ / -	0.300

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
7/25/24	195.51	.83	236	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Dec 2, 2024 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

KE Johnson 1 PIN

07-30-300-002

07-31-100-002

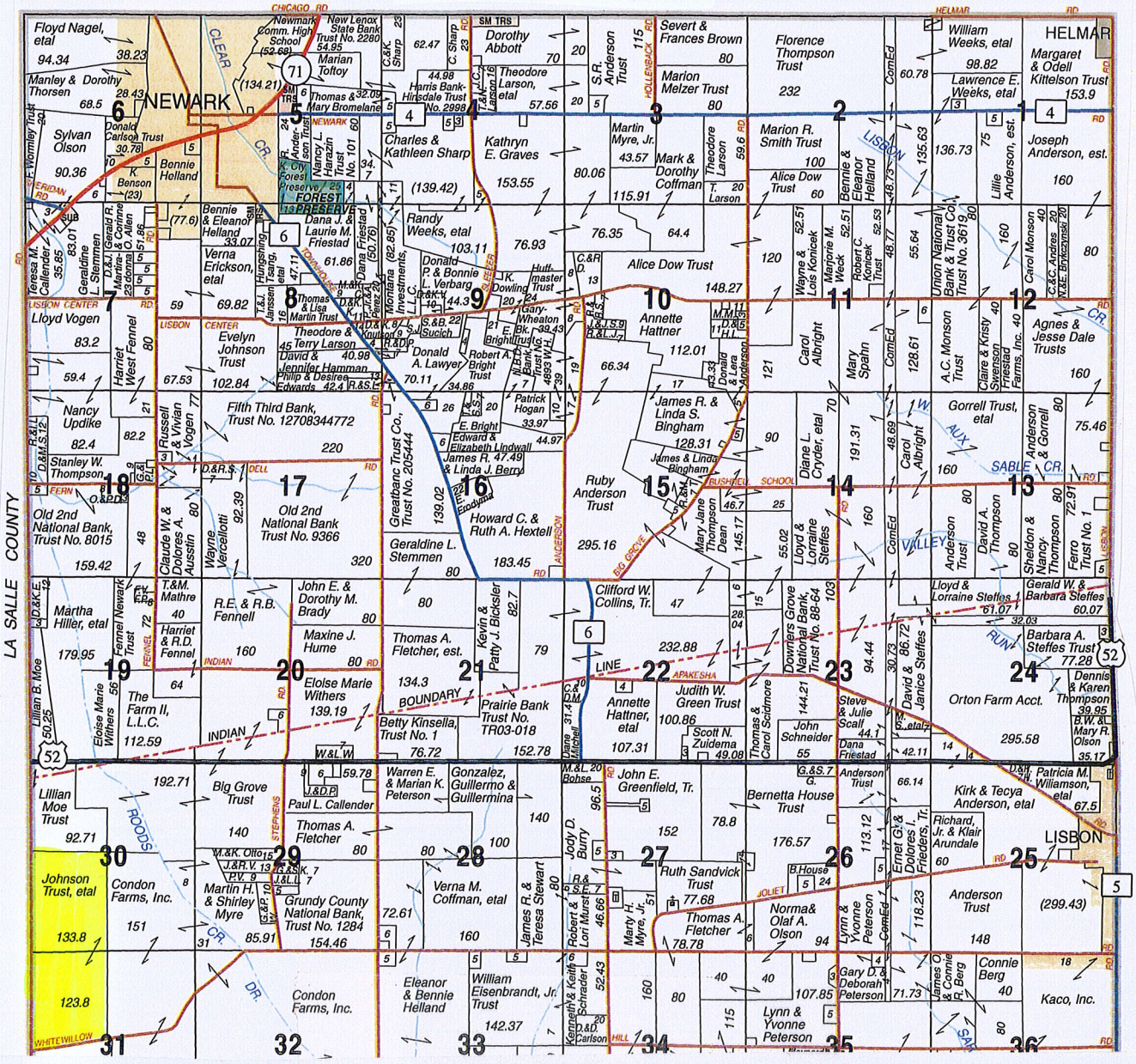
07-31-100-003

07-31-100-004

Johnson

Field 1
236 acres
Kendall County
Big Grove Township
Section 30,31

BIG GROVE T.35N.-R.6E.



A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

LRM1227

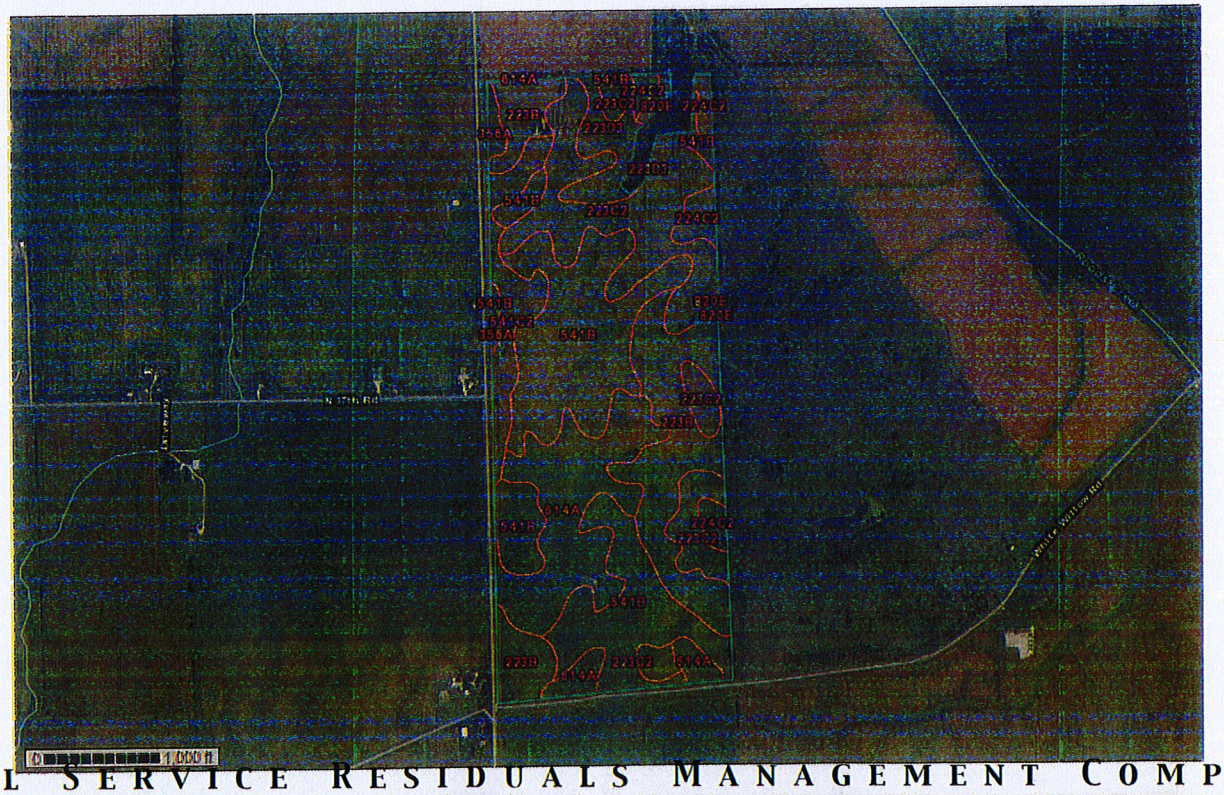
Stewart SPREADING

Soil Map

Johnson

Field 1
236 acres
Kendall County
Big Grove Township
Section 30,31

223B	Varna silt loam, 2 to 4 percent slopes	44.0	18.4%	(0.06 to 0.20 in/hr)
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	47.9	20.1%	(0.06 to 0.20 in/hr)
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	8.4	3.5%	(0.06 to 0.20 in/hr)
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	8.2	3.5%	(0.06 to 0.60 in/hr)
356A	Elpaso silty clay loam, 0 to 2 percent slopes	2.0	0.8%	(0.20 to 0.60 in/hr)
541B	Graymont silt loam, 2 to 5 percent slopes	74.6	31.2%	(0.06 to 0.20 in/hr)
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	13.6	5.7%	(0.06 to 0.20 in/hr)
614A	Chenoa silty clay loam, 0 to 2 percent slopes	38.6	16.2%	(0.06 to 0.20 in/hr)
820E	Hennepin-Casco complex, 12 to 30 percent slopes	1.7	0.7%	(0.20 to 0.60 in/hr)



3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com
LRM1228

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **16091305**

Date Reported: **10/14/2016**

CLIENT: Stewart Spreading, Inc
Collection Date: 1/16/2014 1:00:00 PM
Project: Aurora/KE Johnson 1
Lab ID: 16091305-001
Matrix: SOLID
Client Sample ID KE Johnson 1

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.540	0.0235		pCi/g-dry	± 0.120	1	10/13/2016 2:13:00 PM
Radium-228	1.17	0.0587		pCi/g-dry	± 0.300	1	10/13/2016 2:13:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: KE Johnson 1
ACREAGE: 236
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 30, 31

FARMER: John Stewart
ADDRESS: 3870 N Rt. 71
Sheridan, IL 60551

Source of biosolids
1 LASMA- cells, marathon, lagoon 24
2 LASMA- Lagoon 28
3 Aurora
4 Lasma Lagoon 29
5 Lasma cell 4
6 DuPage

Metal Loadings in Pounds per Acr

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	July 2016	0.03	2.07	2.49	0.21	0.54	4.390	0.040	0.000	0.030	0.060					2627.78	596.51	
2	August 2016	0.040	3.210	3.220	0.300	0.600	5.610	0.040	0.000	0.040	0.140					3789.16	833.62	
3	November 2016	0.015	0.044	0.811	0.026	0.017	0.156	0.000	0.000	0.000	0.000	0.007	pci/g			1758.71	702.12	4.7 pci/g
4	August 2018	0.020	2.180	2.480	0.240	0.500	4.480	0.050	0.000	0.050	0.080					2605.6	644.89	
2	October 2019	0.03	3.89	5.59	0.42	0.78	7.91	0.15	0	0.05	0.11					3566.18	1141.18	
3	October 2019	0.003	0.011	0.142	0.008	0.001	0.019	0	0	0	0	0.0010				394.43	153.24	
2	Aug-21	0.02	2.7	3.48	0.26	0.54	5.03	0.06	0	0.06	0.09					1888.82	730.97	
4	Aug-21	0.00	0.25	0.25	0.02	0.03	0.42	0.01	0.00	0.01	0.01					333.17	66.30	
1	Sep-21	0.01	1.41	1.54	0.14	0.32	2.76	0.03	0.00	0.03	0.05					1261.09	419.95	
2	Sep-21	0.01	0.97	1.16	0.09	0.20	1.94	0.02	0.00	0.02	0.03					1280.60	284.29	
2	Jul-22	0.03	3.11	3.56	0.32	0.55	5.60	0.08	0.00	0.08	0.12					3023.91	625.95	
3	Jul-22	0.002	0.033	0.358	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006	5.38 pci/g			761.89	316.57	
5	Aug-23	0.040	6.990	10.020	0.650	1.430	13.030	0.040	0.010	0.140	0.220					1904.12	597.89	
2	Aug-23	0.020	2.420	2.230	0.220	0.320	4.520	0.050	0.000	0.050	0.110					1058.3	221.18	
6	Aug-23	0.000	0.050	0.300	0.020	0.680	0.000	0.000	0.000	0.000	0.010				225		30.95	
2	July.2024	0.010	1.330	1.530	0.130	0.220	2.650	0.040	0.000	0.030	0.050					2115.66	410.44	
3	July.2024	0.002	0.032	0.209	0.014	0.002	0.042	0.000	0.000	0.000	0.000	0.005	12.3 pci/g			465.16	195.51	
	TOTAL	0.282	30.700	39.370	3.083	6.732	58.610	0.61	0.01	0.59	1.08	0.019	pci/g					
	%of LIMIT	2.8	12.3	4.4	3.1	0.7	11.7	0.6	0	7.4	6.7							

1	Background Radium	1.710	pci/g
2	Site Limit	2.710	pci/g
3	Cumulative total to Date	1.729	pci/g
4	% of Total Cumulative Limit	63.80	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 1600 wet tons
Years Applied 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Section 14 LS Firrantello 3

6.) Size of Area Where Lime is to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx 760 wet tons
Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

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The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Section 17 LS Firrantello 1

6.) Size of Area Where Lime is to be Used: 70 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx 588 wet tons
Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 5/21/24

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Road Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: LaSalle County, Section 17 LS Santoro 5

6.) Size of Area Where Lime is to be Used: 114 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH soil conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator
Amount Applied
Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

5/21/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. IL Route 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township, Section 30 KE Moe 7

6.) Size of Area Where Lime is to be Used: 67 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 500 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. IL Route 71

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township KE Moe 11

6.) Size of Area Where Lime is to be Used: 63 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 900 wet tons
Years Applied 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3874 N. Rte 71 Sheridan, IL 60551

4.) Phone Number of User: 815.695-5667

5.) Location Where Sludge is to be Used: KE Johnson 1

6.) Size of Area Where Lime Residuals are to be Used: 236 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; Less then 6.5

15.) Limitations from Site Characteristics: None Observed, Small field entrance, broken tile in NE corner

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 760 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	10-23-210-000,10-24-111-000
Section Number	24	Township *(Number and Direction)*	T35N
Tillable Acres	150	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Hamman 5	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.700	+ / -	0.110	Radium-228	0.860	+ / -	0.170

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/12/24	205.61	1.37	150	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1245

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **August 2024**

Biosolids Field Record

Site: LS Hamman 5

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/23/2024	8/12/2024	City of Aurora - Lime	557.5	36.88	205.61
Total			557.50		205.61

Biosolids Field Record

Site: LS Stewart 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/19/2024	8/6/2024	City of Aurora - Lime	452.32	37.66	170.34
7/22/2024	8/6/2024	City of Aurora - Lime	309.26	46.25	143.03
7/23/2024	8/6/2024	City of Aurora - Lime	276.91	36.88	102.12
8/6/2024	8/6/2024	City of Aurora - Lime	325.75	33.86	110.30
Total			1364.24		525.80

Biosolids Field Record

Site: LS Bill Mitchell 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/1/2024	8/2/2024	City of Aurora - Lime	931.41	41.64	387.84
Total			931.41		387.84

Biosolids Field Record

Site: KE Moe 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/25/2024	8/2/2024	City of Aurora - Lime	48.03	42.03	20.19
8/1/2024	8/2/2024	City of Aurora - Lime	138.9	41.64	57.84
Total			186.93		78.02

Biosolids Field Record

Site: KE Moe 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/2/2024	8/2/2024	City of Aurora - Lime	653	41.64	271.91
Total			653.00		271.91

Biosolids Field Record

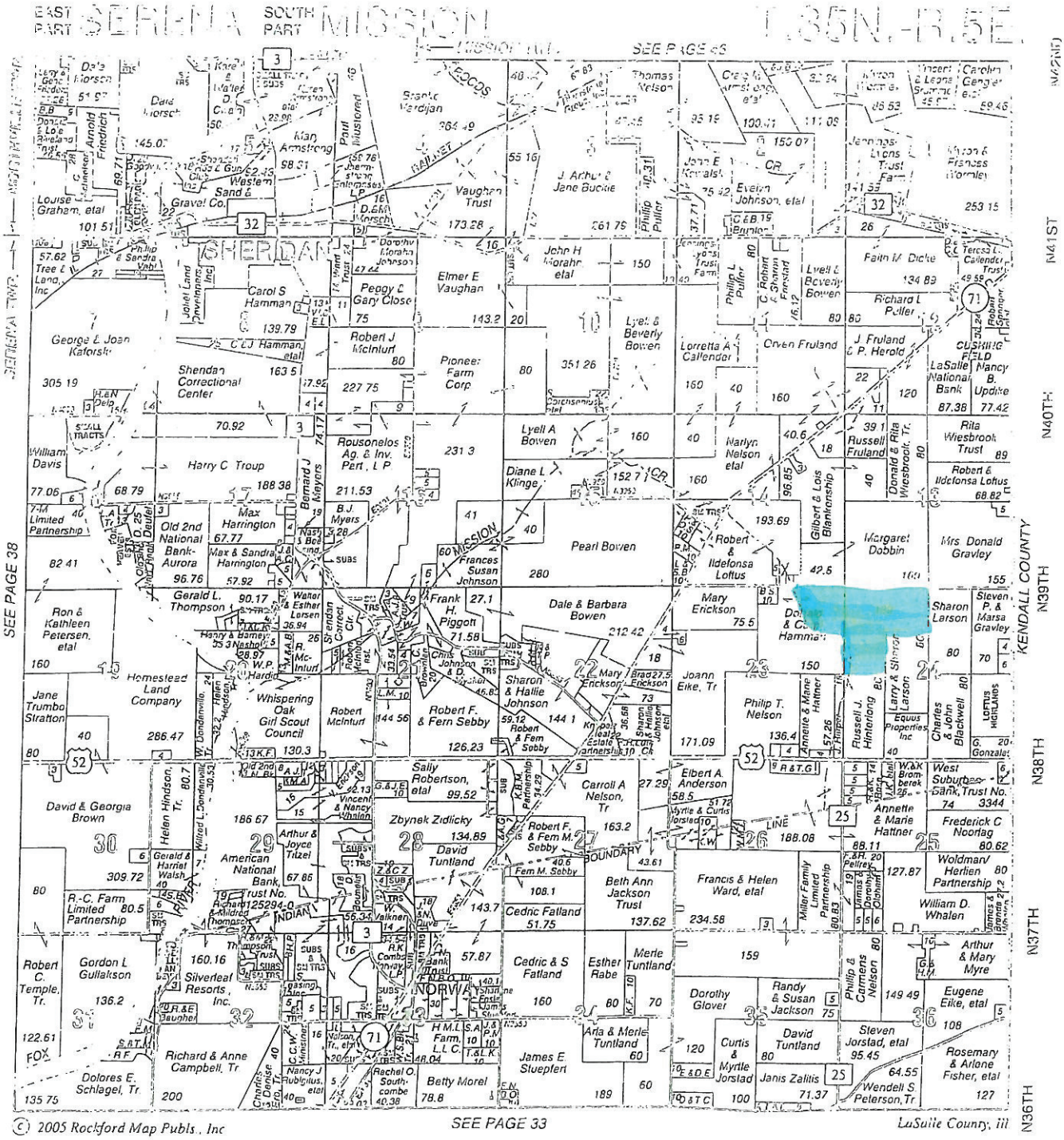
Site: LS Gunderson 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/5/2024	8/6/2024	City of Aurora - Lime	968	41.64	403.08
8/5/2024	8/6/2024	City of Aurora - Lime	73.4	33.83	24.83
8/6/2024	8/6/2024	City of Aurora - Lime	94.12	33.86	31.87
Total			1135.52		459.78

PLAT MAP

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 Acres
LaSalle County
Mission Township
Section 24

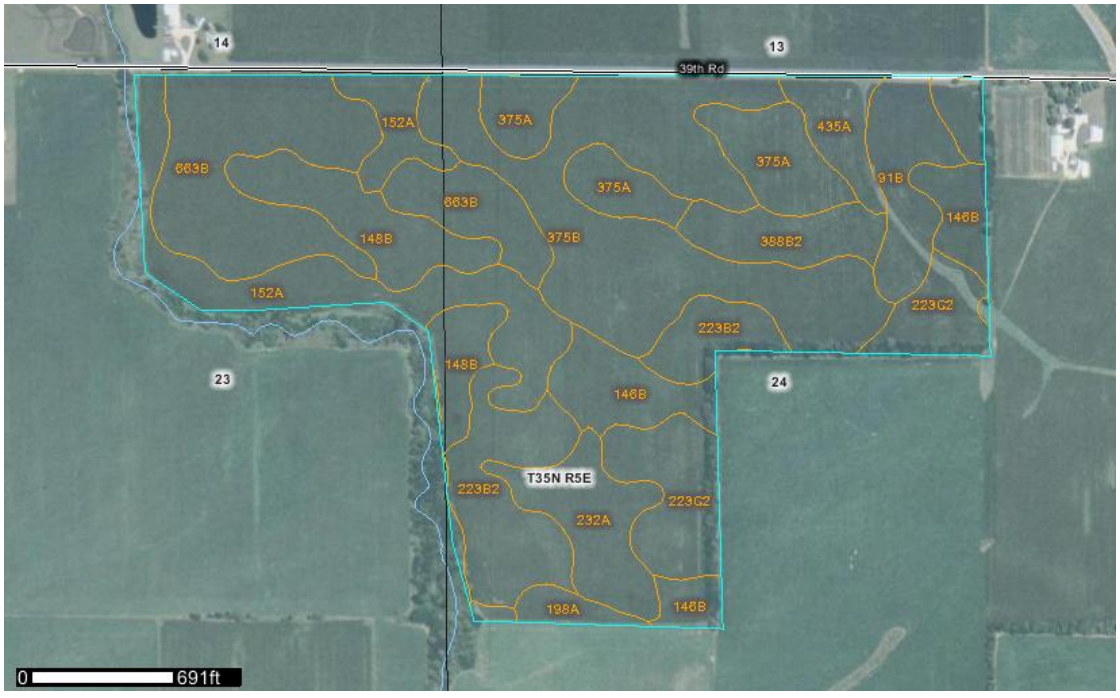


SOIL SERIES

John Stewart
3870 North Route 71
Sheridan, IL 60551
(815) 695-5667

Hamman 5
150 acres
LaSalle County
Mission Township
Section 24

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Swygert, 91B	SiCL	2-5 %	0.2-0.6 in/hr
Elliott, 146B	SiL	2-4 %	0.2-0.6 in/hr
Proctor, 148B	SiL	2-5%	0.2-0.6 in/hr
Drummer, 152A	SiL	0-2 %	0.6-2.0 in/hr
Elburn, 198A	SiL	0-2 %	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4 %	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6 %	0.6-2.0 in/hr
Rutland, 375B	SiL	2-5 %	0.2-0.6 in/hr
Wenona, 388B2	SiCL	2-5 %	0.2-0.6 in/hr
Streator, 435A	SiCL	0-2 %	0.2-0.6 in/hr
Clare, 663B	SiL	2-5 %	0.2-0.6 in/hr
Blackberry, 679B	SiL	2-5 %	0.6-2.0 in/hr



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **15051924**

Date Reported: **6/19/2015**

CLIENT: Stewart Spreading, Inc **Collection Date:** 5/13/2015 10:00:00 AM

Project:

Lab ID: 15051924-001 **Matrix:** SOLID

Client Sample ID LS Hamman 5

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
SOLID GAMMA SPECIFICATIONS ANALYSIS (901.1)				**E901.1**			Analyst: **CM**
Radium-226	0.700	0.0210		pCi/g	± 0.110	1	6/19/2015
Radium-228	0.860	0.0490		pCi/g	± 0.170	1	6/19/2015

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

METAL LOADING RECORD

SITE NUMBER: 5
ACREAGE: 150
COUNTY: LaSalle
TOWNSHIP: Mission
SECTION: 24

FARMER: Spirit Farms/John Stewart
ADDRESS: 3870 N. Rt. 71
Sheridan, IL 60551

Metal Loadings in Pounds per Acre

Source of biosolids

1 Lasma-Lagoon 28
2 DuPage
3 Hasma
4 Lasma-Lagoon 29
5 Lasma-Lagoon 30
6 Egan
7 Lasma-Marathon
8 North Shore Sanitary District
9 Glenbard
10 Fox River Water Reclamation
11 Sheridan
12 Joliet West
13 Joliet East
14 Princeton
15 Marseilles
16 St. Charles
17 Wheaton
18 Huntley West
19 Bensenville
20 Geneva
21 Lasma cell 3
22 Aurora Lime
24 Huntley East
25 Hinckley
26 Plainfield
27 Naperville-Pile 2
28 Naperville-Pile 3
29 Quality Liquid Feeds
30 Lasma Lagoon 27
31 Glendale Heights
32 Village of Addison-Aer
33 Village of Addison-Ana

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	**May 2010**	0.050	4.3600	6.590	0.460	1.190	9.350	0.12	0.01	0.09	0.16					4199.55	881.91
2	**May 2011**	0.010	6.570	3.840	0.180	0.330	6.990	0.04	0.01	0.08	0.11				1600		213.27
3	**May-11**	0.020	5.740	5.210	0.510	0.380	7.320	0.08	0.01	0.07	0.06					2269.21	462.92
4	**May-11**	0.01	1.16	1.30	0.11	0.25	2.11	0.12	0.00	0.02	0.03					619.78	146.89
5	**March2012**	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4486.99	1202.51
6	**October 2012**	0	0.58	0.54	0.05	0.03	0.72	0.01	0	0	0.01					67.71	16.79
5	**October 2012**	0.01	1.05	1.09	0.09	0.24	1.93	0.02	0	0.01	0.02					929.68	209.18
6	**Nov. 2012**	0	0.53	0.44	0.04	0.02	0.63	0.01	0	0	0.01					206.22	44.73
5	**December 2012**	0	0.6	0.62	0.05	0.14	1.1	0.01	0	0.01	0.01					525.99	118.35
7	**December 2012**	0.04	3.74	4.26	0.38	1.16	7.53	0.07	0.01	0.05	0.09					1565.85	735.95
3	**December 2012**	0	0.53	0.45	0.05	0.03	0.63	0.01	0	0	0.01					166.67	36.31739
2	**March 2013**	0	0.49	0.22	0.01	0.03	0.53	0	0	0	0.01				175		22.43483
2	**January 2014**	0	0.47	0.14	0.01	0.02	0.56	0	0	0	0.01				250		30.6489
8	**January 2014**	0.01	14.97	28.77	0.67	0.88	19.8	0.42	0.02	0	0					129.15	122.6925
2	**Febuary 2014**	0	0.92	0.27	0.02	0.05	1.1	0	0	0.01	0.01				725		73.56
2	**March 2014**	0	0.66	0.35	0.02	0.03	0.78	0	0	0	0.01				450		59.26
9	**Nov 2014**	0.01	4.45	1.35	0.1	0.18	5.11	0.0182	0.001	0.01	0				56		7.89
10	**Jan-15**	0.02	3.16	1.83	0.14	0.11	2.74	0.01	0.00	0.02	0.08	0.0085				120.11	15.73
9	**Feb-15**	0.00	0.38	0.09	0.01	0.01	0.12	0.00	0.00	0.00	0.00						
10	**Feb-15**	0.00	0.26	0.11	0.01	0.01	0.23	0.00	0.00	0.00	0.01	0.0004				293.82	35.55
14	**Feb-15**	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03				378		87.43
10	**Mar-15**	0.00	0.32	0.10	0.02	0.01	0.27	0.00	0.00	0.00	0.01						
9	**March 2015**	0	0.33	0.07	0.01	0.01	0.35	0.001	0.001	0	0					360.00	83.27
11	**Mar-15**	0.00	2.51	2.21	0.09	0.08	2.50	0.00	0.00	0.06	0.04						
10	**Apr-15**	0.02	2.51	0.78	0.13	0.08	2.05	0.01	0.00	0.02	0.05						
12	**Apr-15**	0.00	0.77	3.24	0.01	0.01	0.33	0.00	0.00	0.00	0.01						
13	**May-15**	1.00	5.18	18.68	0.44	0.26	1.06	1.00	0.01	0.01	0.04						
14	Nov-15	0.00	0.18	0.15	0.02	0.03	0.34	0.00	0.00	0.01	0.03	0.002				629.48	104.49
10	Jan-16	0.01	0.98	0.78	0.05	0.03	0.82	0.00	0.00	0.01	0.02	0.001			162		44.7
11	Jan-16	0.28	0.18	0.13	0.01	0.01	0.18	0.00	0.00	0.01	0.00	0.013			281		128.83
15	Jan-16	0.00	0.92	4.99	0.04	0.09	1.03	0.01	0.00	0.02	0.01	0.004			75		15.13
16	Feb-16	0.00	0.07	0.34	0.01	0.00	0.11	0.00	0.00	0.00	0.00	0.029					
10	Apr-16	0.00	0.24	0.20	0.01	0.01	0.20	0.00	0.00	0.00	0.00	0.000				167.21	26.92
17	Apr-16	0.00	0.42	0.31	0.02	0.02	0.60	0.00	0.00	0.00	0.00				134		31.4
18	Apr-16	0.00	0.86	0.16	0.01	0.01	0.38	0.01	0.00	0.01	0.01	0.017			574		82.85
9	Apr-16	0.00	0.45	0.11	0.01	0.02	0.41	0.00	0.00	0.01	0.00				400		54.68
19	Apr-16	0.00	0.55	0.30	0.02	0.05	0.39	0.00	0.00	0.00	0.01				406		87.9
13	Jun-16	0.00	1.40	6.97	0.08	0.06	0.42	0.00	0.00	0.01	0.02	0.010			1120		133.12
20	Jun-16	0.00	0.43	0.67	0.02	0.02	0.84	0.01	0.00	0.01	0.01	0.009			552		95.04
2	Mar-17	0.00	0.44	0.42	0.01	0.02	0.57	0.00	0.00	0.00	0.01				250		32.05
2	Apr-17	0.00	2.51	2.37	0.07	0.10	3.06	0.02	0.00	0.02	0.04				1825		240.16
2	May-17	0.00	2.10	1.98	0.06	0.08	2.56	0.02	0.00	0.02	0.03				1450		190.81
2	Jun-17	0.00	1.01	1.07	0.05	0.04	1.21	0.01	0.00	0.01	0.02				750		103.79
21	Jun-18	0.06	6.48	6.28	0.64	1.33	12.41	0.15	0.01	0.07	0.17					2520.44	1076.23
22	Jun-18	0.01	0.037	0.49	0.032	0.006	0.094	0.00	0.00	0.00	0.00	0.007	5.5 pci/g			1035.86	382.3
18	Jul-18	0.01	0.900	0.16	0.010	0.010	0.430	0.01	0.00	0.01	0.01	0.010			554		56.44
24	Jul-18	0.00	0.210	0.06	0.280	0.270	0.000	0.32	0.02	0.00	0.00	0.010			100		11.04
11	Apr-19	0.00	0.080	0.07	0.000	0.000	0.080	0.00	0.00	0.00	0.00	0.003			125		28.76
25	Apr-19	0.00	0.140	0.01	0.000	0.000	0.060	0.00	0.00	0.00	0.00	0.000			106		10.44
22	Apr-19	0.00	0.020	0.35	0.019	0.002	0.048	0.00	0.00	0.00	0.00	0.007	7 pci/g		520.3		288.25
26	May-19	0.01	2.220	1.37	0.100	0.040	3.260	0.01	0.00	0.04	0.07				4287		545.95
26	Dec-19	0.07	0.320	0.21	0.020	0.010	0.400	0.00	0.00	0.01	0.01				800		109.28
2	Jan-20	0.00	1.130	0.66	0.060	0.060	1.500	0.01	0.00	0.01	0.02				875		115.15
2	Feb-20	0.00	1.340	0.95	0.040	0.050	1.830	0.02	0.00	0.02	0.03				1100		143.82
2	Mar-20	0.00	0.760	0.54	0.020	0.030	1.030	0.01	0.00	0.01	0.02				550		71.91
2	Apr-20	0.00	1.510	1.03	0.040	0.050	1.990	0.02	0.00	0.02	0.03				1150		150.36
27	Mar-21	0.02	2.670	1.44	0.080	0.050	3.880	0.04	0.01	0.04	0.04				3217		516.2
28	Mar-21	0.00	1.380	0.70	0.040	0.020	1.800	0.01	0.00	0.01	0.00				1441		222.66
2	Apr-21	0.00	0.110	0.06	0.000	0.000	0.140	0.00	0.00	0.00	0.00				75		9.3
1	Jul-21	0.01	1.390	1.60	0.140	0.190	2.360	0.04	0.00	0.03	0.05					1296.66	254.15
7	Sep-21	0.04	6.120	6.66	0.590	1.380	11.940	0.15	0.01	0.15	0.21					3298.81	1098.5
22	Sep-21	0.00	0.006	0.15	0.005	0.001	0.014	0.00	0.00	0.00	0.00	0.001				231.58	73.87
2	Jul-22	0.00	1.570	1.12	0.090	0.060	1.930	0.02	0.00	0.02	0.03				1200		170.14
1	Jul-22	0.03	2.850	3.27	0.290	0.500	5.130	0.08	0.00	0.08	0.11					2852.08	590.38
22	Jul-22	0.002	0.032	0.356	0.015	0.002	0.053	0.000	0.000	0.000	0.000	0.006				808.36	332.69
29	Jul-22	0.000	0.000	0.000	0.000	0.000	0.490	0.000	0.000	0.000	0.000			120761		808.36	332.69
20	Sep-22	0.002	0.380	0.150	0.020	0.010	0.700	0.000	0.000	0.000	0.010	0.003			280		51.85
1	Sep-22	0.020	1.400	1.540	0.130	0.270	2.770	0.020	0.000	0.030	0.050					1089.59	240.8
1	Apr-23	0.050	4.260	4.770	0.420	0.820	8.300	0.100	0.000	0.100	0.110					3460.25	757.79
22	Jul-23	0.001	0.014	0.154	0.007	0.001	0.023	0.000	0.000	0.000	0.000	0.003	5.38 pci/g			355.47	144.9
1	Aug.23	0.010	1.610	1.480	0.150	0.210	3.010	0.040	0.000	0.040	0.070					1223.73	255.76
30	Oct-23	0.080	4.640	9.080	.4+6	0.980	9.400	0.110	0.010	0.110	0.160					3472.51	840.35
31	Jul-24	0.000	0.040	0.030	0.000	0.000	0.110	0.000	0.000	0.000	0.000				40		5.5
32	Jul-24	0.000	0.010	0.030	0.000	0.000	0.010	0.000	0.000	0.000	0.000				25		3.17
33	Jul-24	0.000	0.140	0.040	0.010	0.010	0.210	0.000	0.000	0.000	0.000				75		13.8
2	Jul-24	0.000	0.570	0.390	0.020	0.020	0.740	0.010	0.000	0.010	0.010				700		90.33
31	Aug-24	0.000	0.080	0.050	0.010	0.000	0.190	0.000	0.000	0.000	0.000				80		11
30	Aug-24	0.020	3.970	4.470	0.370	0.830	8.590	0.100	0.000	0.100	0.140					3660.8	735.82
22	Aug-24	0.004	0.054	0.353	0.024	0.004	0.070	0.000	0.000	0.000	0.000	0.009	12.3 pci/g			557.5	205.61
1	Sep-24	0.000	0.440	0.530	0.040	0.090	0.920	0.010	0.000	0.010	0.010					357.94	78.03
	TOTAL	2.018	130.583	456.943	8.492	15.336	188.335	3.468	0.160	1.611	2.655	0.1537					

%of LIMIT	20.2	52.2	50.8	8.5	1.5	37.7	3.5	0	20.1	16.5	0.000	pci/g
						1	Background Radium				1.560	pci/g
						2	Site Limit				2.560	pci/g
						3	Cumulative total to Date				1.71	%
						4	% of Total Cumulative Limit				66.79	%

1 Background Radium determined from soil test results

2 Radium Concentration in soil can not exceed this limit

Macronutrients in pounds per acre		Available Nitrogen in Subsequent Years
		---
Plant Available Nitrogen (PAN):	233	38 lbs. for year 2
Total Phosphorus as P2O5 (organic):	699	17 lbs. for year 3
Potassium as K2O:	46	8 lbs. for year 4
		4 lbs. for year 5

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	16-03-108-000
Section Number	3	Township *(Number and Direction)*	T34N
Tillable Acres	190	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Stewart 3	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.29	+ / -	0.1	Radium-228	0.89	+ / -	0.6

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/6/24	525.80	2.76	190	7.6	4.7

5. I certify the information provided above is accurate,

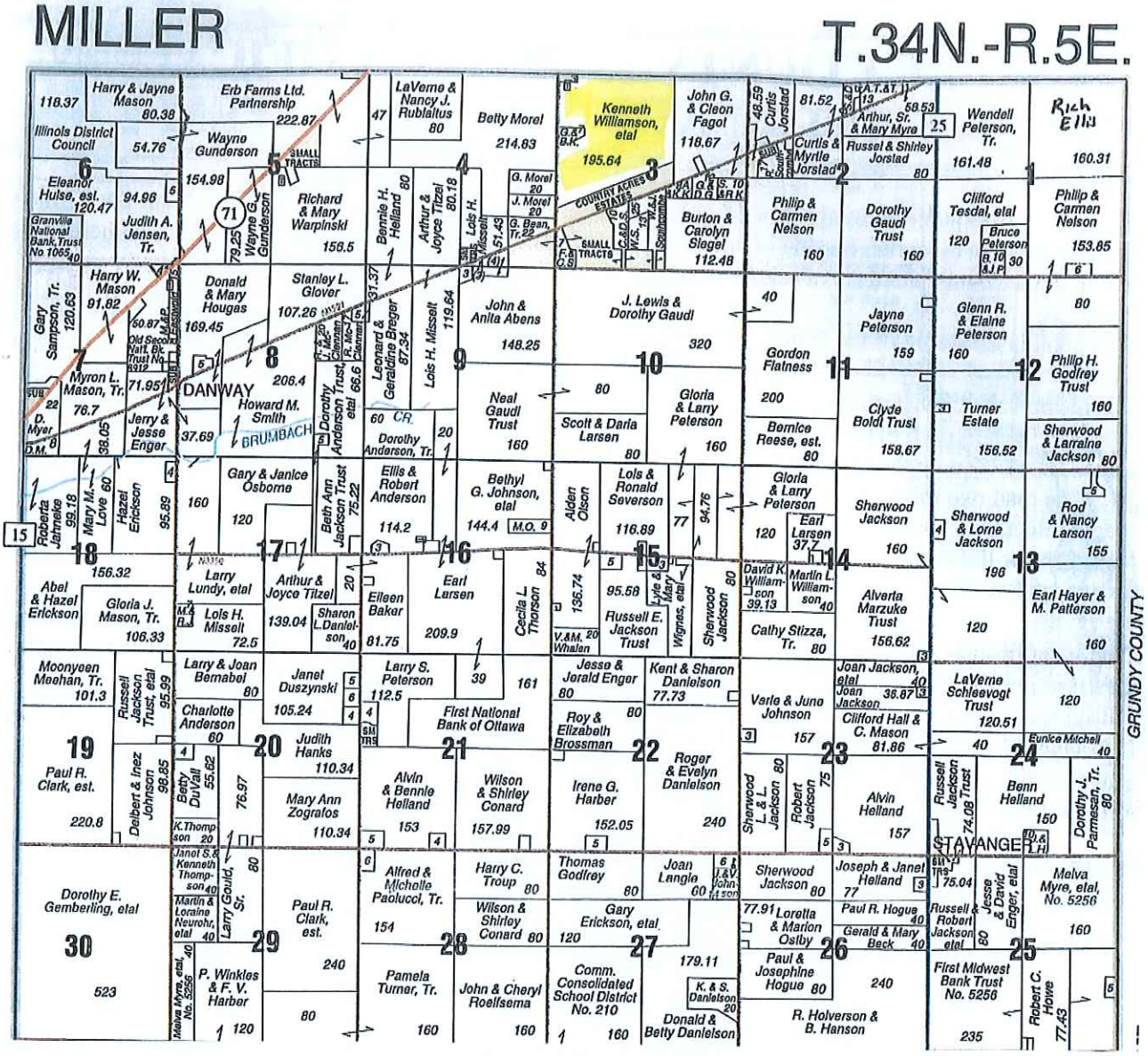
Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1254

John Stewart
3870 N. Route 71
Sheridan, IL 60551
815-695-5667

Stewart 3
190 Acres
LaSalle County
Miller Township
Section 3 T.34N,R.5 E.



SOIL SERIES

John Stewart
3870 N Route 71
Sheridan, IL 60551
815-695-5667

Field 3
190 acres
LaSalle County
Miller Township
Section 3

SOIL SERIES	TEXTURE	% SLOPE	PERMEABILITY
Elliott, 146B	SiL	2-4%	0.6-2.0 in/hr
Varna, 223B2	SiL	2-4%	0.6-2.0 in/hr
Varna, 223C2	SiL	4-6%	0.6-2.0 in/hr
Varna, 223C3	SiL	4-6%	0.6-2.0 in/hr
Varna, 223D3	SiL	4-6%	0.6-2.0 in/hr
Ashkum, 232A	SiCL	0-2%	0.2-0.6 in/hr
Symerton, 294B	SiL	2-5%	0.6-2.0 in/hr
Elpaso, 356A	SiCL	0-2%	0.6-2.0 in/hr
Graymont, 541B	SiL	2-5%	0.6-2.0 in/hr
Chenoa, 614B	SiCL	0-2%	0.6-2.0 in/hr



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

November 26, 2012

Client: Stewart Spreading, Inc
Address: 3870 N. Route 71
Sheridan, IL 60551

Received: 11/13/2012
Project #: N/A

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
LS Stewart 3	1227216-05	05-Nov-12	Radium-226	0.29 +/- 0.1	pci/g	S	9315	1	0.4	23-Nov-12	CM

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
LS Stewart 3	1227216-05	05-Nov-12	Radium-228	0.89 +/- 0.6	pci/g	S	9320	1	0.4	23-Nov-12	CM

"Analytical Integrity" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 • Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.cattek.com

METAL LOADING RECORD

SITE NUMBER: LS Stewart 3
ACREAGE: 190
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 3

FARMER: John Stewart
ADDRESS: 3870 North Route 71
Sheridan, IL 60551
PHONE #: 815-695-1460

Source of biosolids
1 Egan Water Reclamation Plant
2 LASMA - Lagoon #28
3 LASMA - Lagoon #29
4 LASMA - Lagoon #30
5 LASMA - Marathon
6 Aurora - Lime
7 Princeton Biosolids
8 Glenbard
9 LASMA-Lagoon #27

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Nov. 08	0.03	6.44	8.22	0.5	0.5	9.22	0.01	0.02	0.01	0.18		
2	Nov. 08	0.01	1.27	1.64	0.14	0.39	2.67	0.04	0	0.08	0.04		
1	May 09	0.03	4.49	6.63	0.38	0.3	5.93	0.05	0	0.01	0.07		
3	May 09	0.04	5.79	9.52	0.59	1.78	12.9	0.16	0.01	0.16	0.21		
3	Dec 09	0.04	4.26	8.24	0.51	1.23	8.41	0.13	0.01	0.1	0.15		
3	Nov. 10	0.04	6.36	7.63	0.52	1.91	10.93	0.14	0.02	0.06	0.16		
4	Mar. 2012	0.06	5.63	260.55	0.56	1.61	11.29	0.14	0.02	0.07	0.23		
5	Oct. 2012	0.03	2.49	2.84	0.26	0.77	5.01	0.04	0.01	0.03	0.06		
6	11/24/2012	0.000	0.024	0.656	0.026	0.007	0.163	0.000	0.000	0.000	0	0.010	pci/g
5	Nov. 2012	0.060	5.600	6.390	0.570	1.740	11.290	0.100	0.020	0.070	0.130		
7	Apr-14	0.02	0.08	0.50	0.08	0.10	1.31	0.05	0.00	0.08	0.02		
8	May-14	0.00	0.50	0.10	0.01	0.01	0.49	0.00	0.00	0.00	0.01		
9	May-14	0.00	0.45	0.30	0.01	0.02	0.47	0.00	0.00	0.00	0.01		
2	Jun-16	0.07	6.25	6.26	0.58	1.17	10.92	0.07	0.01	0.07	0.28		
2	Nov-16	0.06	6.14	4.92	0.68	1.78	13.10	0.09	0.01	0.07	0.14		
3	Dec-17	0.03	4.42	5.88	0.48	1.01	8.53	0.10	0.00	0.05	0.03		
5	Dec-17	0.01	0.74	0.73	0.07	0.17	1.45	0.01	0.00	0.01	0.00		
6	Dec-17	0.01	0.03	0.44	0.029	0.01	0.09	0.00	0.00	0.00	0.00	0.006	5.5 pci/g
2	Jul-20	0.01	1.90	2.65	0.180	0.37	3.43	0.04	0.00	0.02	0.07		
2	Aug-20	0.03	4.34	6.05	0.410	0.85	7.82	0.08	0.00	0.05	0.15		
6	Aug-20	0.01	0.05	0.67	0.038	0.00	0.09	0.00	0.00	0.00	0.00	0.006	4.1 pci/g
3	Sep-21	0.04	6.14	7.76	0.550	1.05	10.75	0.14	0.00	0.14	0.19		
2	Sep-21	0.00	0.11	0.13	0.010	0.02	0.22	0.00	0.00	0.00	0.00		
6	Sep-21	0.00	0.01	0.29	0.010	0.00	0.03	0.00	0.00	0.00	0.00	0.002	3.57 pci/g
2	Jul-22	0.03	2.33	2.67	0.240	0.41	4.19	0.06	0.00	0.06	0.09		
9	Jul-22	0.02	2.68	3.17	0.290	0.52	5.18	0.08	0.00	0.08	0.08		
6	Jul-22	0.004	0.053	0.581	0.025	0.004	0.086	0.000	0.000	0.000	0.000	0.010	5.38 pci/g
9	Oct-23	0.080	4.810	9.410	0.470	1.010	9.740	0.120	0.010	0.120	0.160		
2	Oct-23	0.010	1.060	1.180	0.100	0.270	2.250	0.010	0.000	0.030	0.040		
2	Aug-24	0.020	4.500	5.460	0.400	0.920	9.390	0.110	0.000	0.110	0.150		
9	Aug-24	0.010	1.920	2.160	0.180	0.400	4.150	0.050	0.000	0.050	0.070		
6	Aug-24	0.008	0.108	0.706	0.049	0.008	0.141	0.000	0.000	0.000	0.000	0.018	12.3 pci/g
	TOTAL	0.817	90.984	374.338	8.947	20.340	171.631	1.820	0.141	1.530	2.720	0.052	pci/g
	%of LIMIT	8.2	36.4	41.6	8.9	2	34.3	1.8	2	19.1	16.9		

1	Background Radium	1.180	pci/g
2	Site Limit	2.180	pci/g
3	Cumulative Total to Date	1.232	pci/g
4	% of Total Cumulative Limit	56.51	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	03-02-100-004,03-02-100-003
Section Number	2	Township *(Number and Direction)*	T36N
Tillable Acres	80	Range *(Number and Direction)*	R3E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Bill Mitchell 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.70	+ / -	0	Radium-228	1.03	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/2/24	387.84	4.8	80	7.6	4.7

5. I certify the information provided above is accurate,

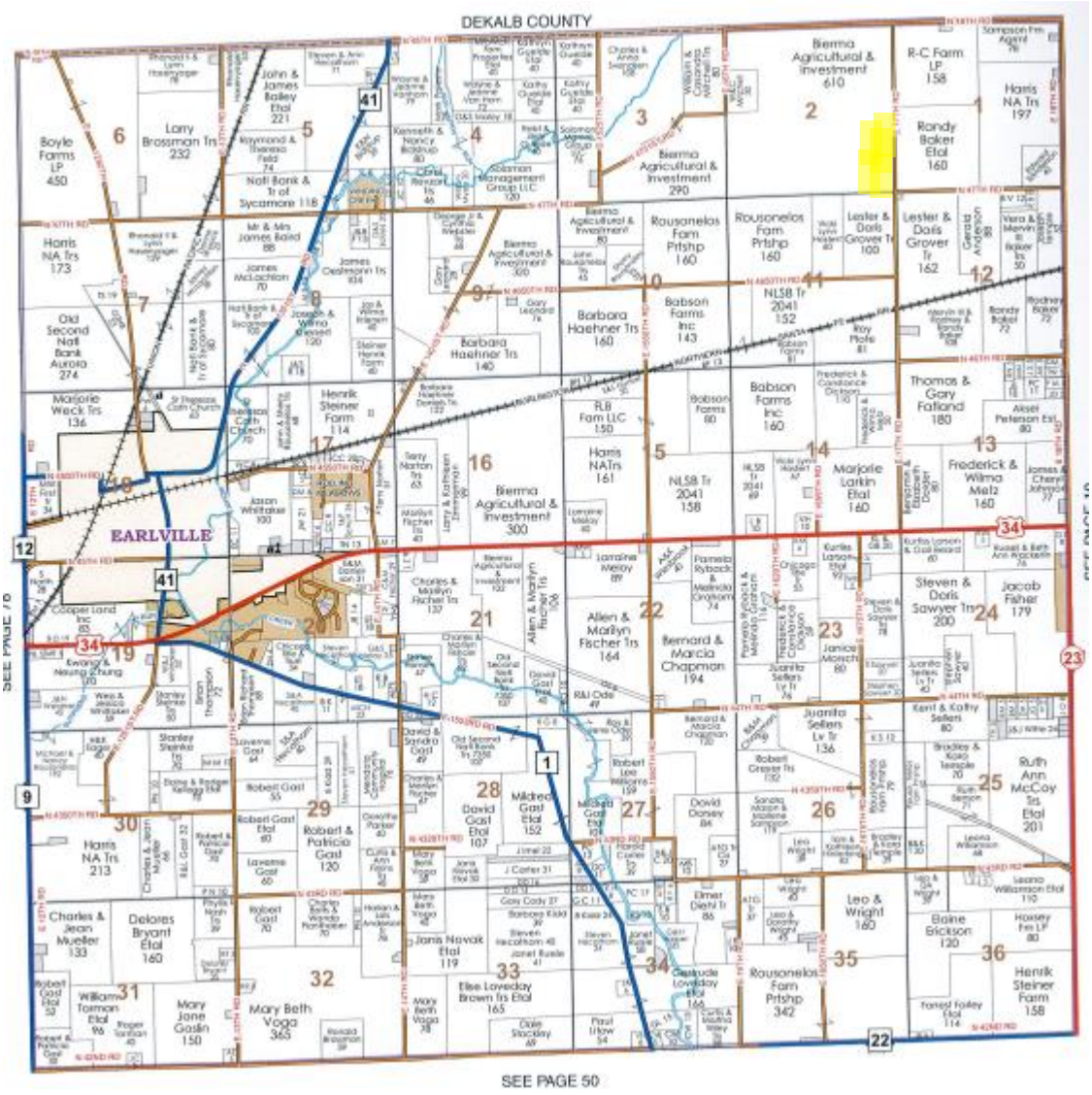
Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1259

Bill Mitchell

LS Bill Mitchell 1
80 acres
LaSalle County
Earl Township
Section 2



Bill Mitchell

LS Bill Mitchell 1
80 acres
LaSalle County
Earl Township
Section 2

60C2	La Rose loam, 5 to 10 percent slopes, eroded	1.5	2.0%	0.20 to 0.60 in/hr
60D2	La Rose loam, 10 to 18 percent slopes, eroded	5.1	6.7%	0.20 to 0.60 in/hr
67A	Harpster silty clay loam, 0 to 2 percent slopes	15.9	21.1%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	28.9	38.5%	0.60 to 2.00 in/hr
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	6.8	9.1%	0.60 to 2.00 in/hr
206A	Thorp silt loam, 0 to 2 percent slopes	16.2	21.5%	0.06 to 0.20 in/hr
814A	Muscatune-Buckhart silt loams, 0 to 3 percent slopes	0.8	1.0%	0.60 to 2.00 in/hr.



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, September 09, 2022

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Dear Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G220157-8 is in Table 1. Stewart Spreading identified the samples as LS Scott Brummel 1 and LS Bill Mitchell 1, respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample ID	
	G220157	G220158
	LS Scott Brummel 1	LS Bill Mitchell 1
Ac-228	1.45	1.03
Ra-228[1]	1.45	1.03
Pb-214	< 0.07^	< 0.06^
Bi-214	0.89	0.70
Ra-226[2]	0.89	0.70
Total Radium[3]	2.34	1.73

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at

METAL LOADING RECORD

SITE NUMBER:	LS Bill Mitchell 1	COUNTY:	LaSalle
ACREAGE:	80	TOWNSHIP:	Earl
		SECTION:	2
FARMER:	Bill Mitchell		
ADDRESS:	4762 E 16th Rd		
	815-739-1317		

Source of biosolids

1 Aurora Lime
2
3
4
5
6

Metal Loadings in Pounds per Acr

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	July-22	0.005	0.074	0.818	0.035	0.005	0.121	0	0	0	0	0.014	5.38 pci/g
1	Aug.24	0.014	0.185	1.21	0.084	0.014	0.241	0	0	0	0	0.030	12.3 pci/g
	TOTAL	0.02	0.26	2.03	0.12	0.02	0.36	0	0	0	0	0.044	pci/g
	%of LIMIT	0.2	0.1	0.2	0.1	0	0.1	0	0	0	0		

1	Background Radium	1.730	pci/g
2	Site Limit	2.730	pci/g
3	Cumulative Total to Date	1.774	pci/g
4	% of Total Cumulative Limit	64.98	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-30-100-001
Section Number	30	Township *(Number and Direction)*	T35N
Tillable Acres	35	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Moe 6

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.590	+ / -	0.100	Radium-228	0.730	+ / -	0.190

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/2/24	78.02	2.2	35	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1264

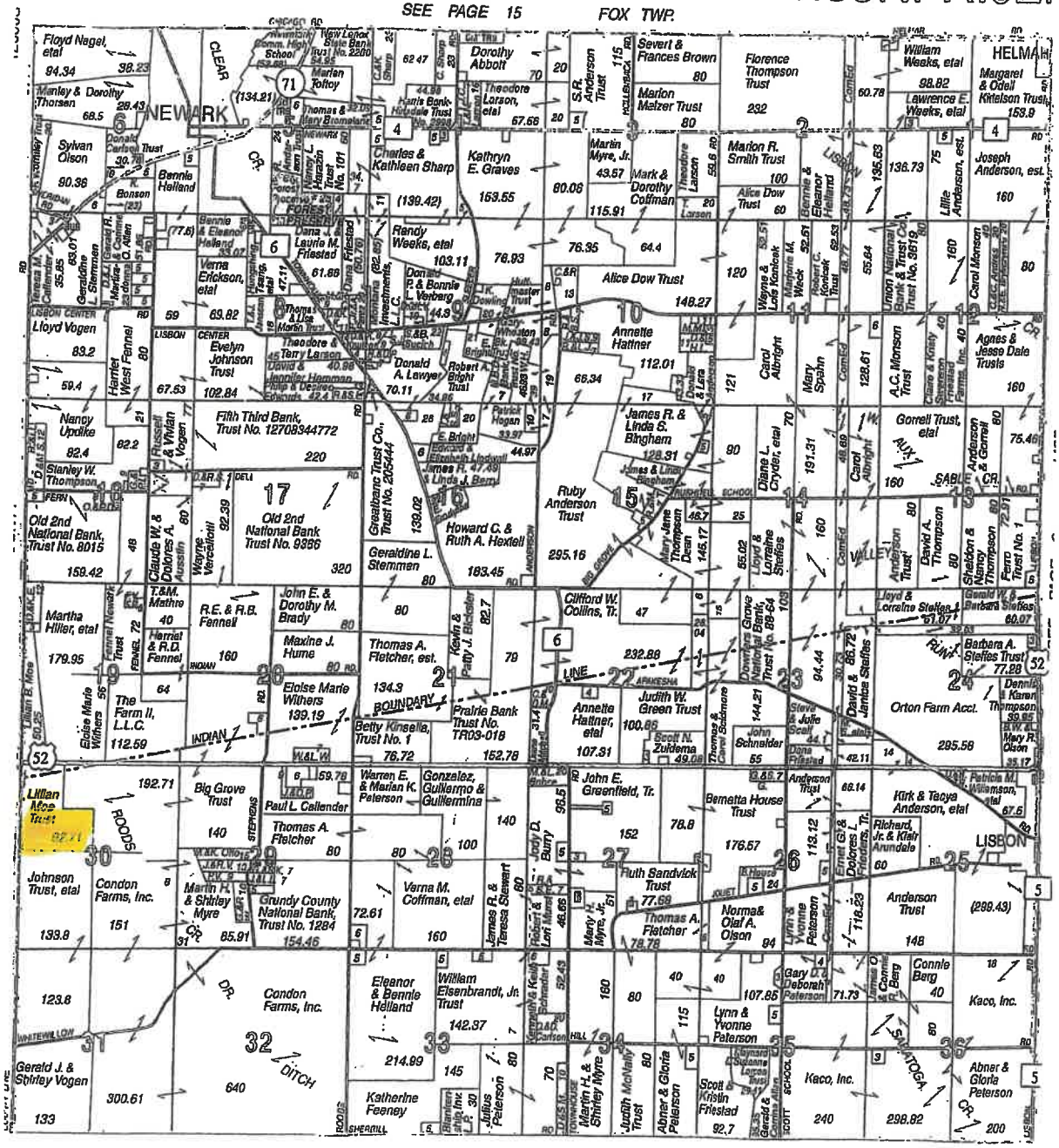
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 6
35 acres
Kendall County
Big Grove Township
Section 30

BIG GROVE

T.35N.-R.6E.



LRM1265

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 6
35 acres
Kendall County
Big Grove Township
Section 30

SOIL SERIES	TEXTURE	% SLOPE
Varna, 223 B	SiL	2-4%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Strawn, 224C2	SiL	6-12%
Elpaso, 356A	SiCL	0-2%
Graymont, 541B	SiL	2-5%
Chenoa, 614A	SiCL	0-2%



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20070719**

Date Reported: **8/13/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 5/13/2020 9:30:00 AM
Project: Background Rads
Lab ID: 20070719-001
Matrix: SOLID
Client Sample ID: KE Moe 6

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.590	0.0100		pCi/g	± 0.100	1	8/12/2020 3:07:00 PM
Radium-228	0.730	0.0500		pCi/g	± 0.190	1	8/12/2020 3:07:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 6
ACREAGE: 35
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 30

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
630-553-2798

Source of biosolids

1 DuPage
2 Plainfield
3 Lasma Lagoon 29
4 Wheaton
5 Marseilles
6 Hinckley
7 Sheridan
8 Deerfield
9 Lasma Lagoon 28
10 Aurora Lime
11 Glendale Heights

Metal Loadings in Pounds per Ac

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	June-12	0.01	7.14	5.06	0.18	0.37	8.27	0.04	0.01	0.07	0.12		
2	9/15/2015	0.05	3.55	1.31	0.13	0.08	3.86	0.05	0.004	0.1	0.08		
3	Aug-18	0.08	8.22	9.37	0.91	1.9	16.89	0.21	0.01	0.21	0.29		
4	May-20	0.01	7.4	7.55	0.23	0.32	9.65	0.04	0.01	0.07	0.2		
5	May-20	0.01	2.99	22.18	0.04	0.26	3.23	0.02	0	0.05	0.04	0.024	
6	May-20	0	1.02	0.16	0.01	0.02	0.55	0.01	0	0.01	0	0.013	
7	May-20	0	0.57	0.53	0.02	0.02	0.57	0.01	0	0.02	0.01	0.010	
8	May-20	0.01	6.71	8.63	0.17	0.17	4.25	0.04	0.01	0.05	0.07		
9	Jul-22	0.03	2.46	2.82	0.25	0.43	4.43	0.07	0	0.07	0.09		
3	Jul-22	0.06	6.51	7.96	0.58	1.12	11.21	0.16	0.01	0.16	0.19		
10	Jul-22	0.005	0.08	0.876	0.037	0.005	0.13	0	0	0	0	0.015	5.38 pci/g
9	Jul-24	0.06	5.71	6.58	0.54	0.95	11.38	0.16	0.01	0.14	0.21		
11	Aug-24	0	0.11	0.07	0.01	0	0.27	0	0	0	0		
10	Aug-24	0.007	0.085	0.554	0.038	0.007	0.11	0	0	0	0	0.014	12.3 pci/g
	TOTAL	0.33	52.56	73.65	3.15	5.65	74.80	0.81	0.06	0.95	1.30	0.076	pci/g
	%of LIMIT	3.3	21	8.2	3.2	0.6	15	0.8	0.1	11.9	8.1		

1	Background Radium	1.320	pci/g
2	Site Limit	2.320	pci/g
3	Cumulative Total to Date	1.396	pci/g
4	% of Total Cumulative Limit	60.17	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See next page
Section Number	20	Township *(Number and Direction)*	T35N
Tillable Acres	134	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Moe 8

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.68	+ / -	0	Radium-228	0.91	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/2/24	271.91	2.0	134	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1269

KE Moe 8 PIN

07-20-300-006

07-20-300-007

07-20-300-008

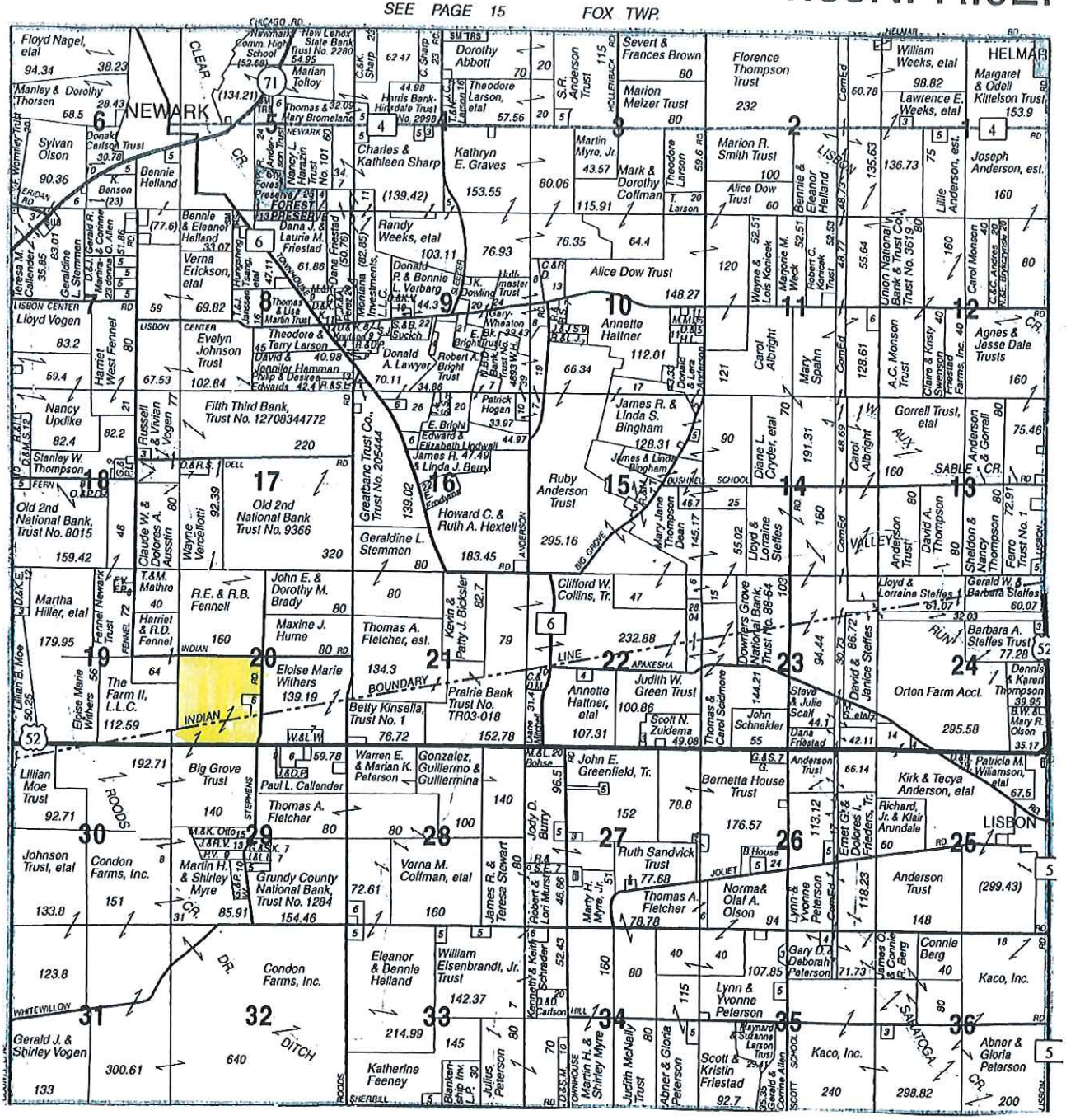
PLAT MAP

Ben Moe
415 Walnut St.
Yorkville IL, 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

BIG GROVE

T.35N.-R.6E.


SEE PAGE 15
FOX TWP.
NEWARK
HELMAR
LISBON
LISBON CENTER
FOREST PRESERVE
Big Grove Trust
Condon Farms, Inc.
Fifth Third Bank, Trust No. 12708344772
Old 2nd National Bank Trust No. 9366
Old 2nd National Bank, Trust No. 8015
Prairie Bank Trust No. TR03-018
Grundy County National Bank, Trust No. 1284
Alice Dow Trust
Ruth Sandvick Trust
Orton Farm Acct.
Kaco, Inc.
Gerald J. & Shirley Vogen
Abner & Gloria Peterson
Lillian Moe Trust
The Farm II, L.L.C.
Martha Hiller, et al
Nancy Updike
Lloyd Vogen
Floyd Nagel, etal
Sylvan Olson
Annette Hattner
Ruby Anderson Trust
Howard C. & Ruth A. Hextell
Greatbanc Trust Co., Trust No. 205444
Kathryn E. Graves
Charles & Kathleen Sharp
Randy Weeks, etal
Verna Erickson, etal
Evelyn Johnson Trust
Eloise Marie Withers
Maxine J. Humo
Thomas A. Fletcher, est.
Verna M. Coffman, etal
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Katherine Feeney
Julius Peterson
Bernetta House Trust
Anderson Trust
Kirk & Tecya Anderson, etal
Joseph Anderson, est.
Agnes & Jesse Dale Trusts
Barbara A. Steffes Trust
Dennis & Karen Thompson
Connie Berg
Kaco, Inc.
Abner & Gloria Peterson
Scott & Kristin Friestad
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
Norma & Olaf A. Olson
Judith W. Green Trust
Clifford W. Collins, Tr.
Betty Kinsella, Trust No. 1
Gonzalez, Guillermo & Guillermina
Warren E. & Marian K. Peterson
Paul L. Callender
Thomas A. Fletcher
Martin H. & Shirley Myre
Johnson Trust, etal
Condon Farms, Inc.
Eleanor & Bennie Helland
Katherine Feeney
Julius Peterson
Abner & Gloria Peterson
Judith McNally Trust
Martin H. & Shirley Myre
Kenneth & Keith Schroeder
Robert & Lori Murset
Jody D. Burry
John E. Greenfield, Tr.
Annette Hattner, etal
Scott N. Zuidema
Thomas & Carol Sodmore
Downers Grove National Bank, Trust No. 88-84
Steve & Julie Scalf
John Schneider
Dana Friestad
Lloyd & Lorraine Steffes
Gerald W. & Barbara Steffes
Anderson & Gorrell
Sheldon & Nancy Thompson
David A. Thompson
Anderson Trust
Gorrell Trust, etal
A.C. Monson Trust
Union National Bank & Trust Co. Trust No. 3619
Carol Monson
Lillie Anderson, est.
Joseph Anderson, est.
Margaret & Odell Kittelson Trust
Lawrence E. Weeks, etal
William Weeks, etal
Florence Thompson Trust
Marion Melzer Trust
Severt & Frances Brown
Dorothy Abbott
Marion R. Smith Trust
Alice Dow Trust
Bennie & Eleanor Helland
Mark & Dorothy Coffman
Martin Myre, Jr.
Theodore Larson
Theodore Larson, etal
Harris Bank-Hinsdale Trust No. 2998
Marian Tofoy
Newark Comm. High School
New Lenox State Bank Trust No. 2280
Donald Carlson Trust
Bennie Helland
Dana J. & Laurie M. Friestad
Donald P. & Bonnie L. Varberg
Donald A. Lawyer
Robert A. Bright Trust
Edward & Elizabeth Lodwall
James R. & Linda S. Bingham
Diane L. Cryder, etal
Carol Albright
Mary Spahn
Claire & Kristy Swenson Trust
Swenson Farms, Inc.
Russell & Vivian Vogen
Stanley W. Thompson
Claude W. & Dolores A. Ausstin
Wayne Vercelotti
Harriet West Fennel
Fennel Newark Trust
T.&M. Mathre
Harriet & R.D. Fennel
R.E. & R.B. Fennell
John E. & Dorothy M. Brady
Lillian B. Moe
Elsie Marie Withers
Big Grove Trust
Thomas A. Fletcher
Martin H. & Shirley Myre
Grundy County National Bank, Trust No. 1284
Verna M. Coffman, etal
James R. & Teresa Stewart
Robert & Lori Murset
Jody D. Burry
Ruth Sandvick Trust
Thomas A. Fletcher
Norma & Olaf A. Olson
Lynn & Yvonne Peterson
Gary D. & Deborah Peterson
Connie Berg
Kaco, Inc.
Abner & Gloria Peterson
Scott & Kristin Friestad
Lynn & Yvonne Peterson
Judith McNally Trust
Martin H. & Shirley Myre
Julius Peterson
Blankenship Inv. L.P.
Katherine Feeney
Eleanor & Bennie Helland
William Eisenbrandt, Jr. Trust
Verna M. Coffman, etal
Condon Farms, Inc.
Grundy County National Bank, Trust No. 1284
Martin H. & Shirley Myre
Johnson Trust, etal
Condon Farms, Inc.
Gerald J. & Shirley Vogen
Big Grove Trust
Thomas A. Fletcher
Paul L. Callender
Warren E. & Marian K. Peterson
Gonzalez, Guillermo & Guillermina
Betty Kinsella, Trust No. 1
Prairie Bank Trust No. TR03-018
Howard C. & Ruth A. Hextell
Geraldine L. Stemmen

SOIL SERIES

Benjamin H. Moe
415 Walnut Street
Yorkville, IL 60560
(630) 553-2798

Field 8
134 acres
Kendall County
Big Grove Township
Section 20

SOIL SERIES	TEXTURE	% SLOPE
Lisbon, 59A	SiL	0-2%
La Rose, 60B2	SiL	2-5%
La Rose, 60C2	SiL	5-10%
La Rose, 60C3	CL	5-10%
Saybrook, 145B	SiL	2-5%
Varna, 223C2	SiL	4-6 %
Varna, 223D3	SiCL	6-12 %
Peotone, 330A	SiCL	0-2%
Elpaso, 356A	SiCL	0-2%



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Monday, November 06, 2023

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Moe Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230296-7 is in Table 1. Stewart Spreading identified the samples as KE Moe 8 (Soil) and KE Moe 9 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs	
	G230296	G230297
	KE Moe 8 (Soil)	KE Moe 9 (Soil)
Ac-228	0.91	1.21
Ra-228[1]	0.91	1.21
Pb-214	0.69	1.13
Bi-214	0.67	1.40
Ra-226[2]	0.68	1.26
Total Radium[3]	1.59	2.47

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 134
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 20

FARMER: Benjamin H. Moe
ADDRESS: 415 Walnut Street
Yorkville, IL 60560
PHONE #: 630-553-2798

Source of biosolids

1 LASMA - Lagoon #27
2 LASMA - Lagoon # 30
3 LASMA - Lagoon #28
4 DuPage
5 LASMA-Lagoon 29
6 LASMA Cell 4 and 5
7 Lasma Cell 1
8 Aurora Lime
9 Romeoville
10 Calumet W3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	Dec. 2011	0.02	2.56	3.35	0.24	0.72	4.98	0.06	0.01	0.03	0.05					1367.76	440.42	
2	Mar. 2012	0.07	6.54	302.69	0.66	1.87	13.12	0.16	0.02	0.08	0.26					4249.86	1138.96	
2	October 2012	0.02	2.55	2.65	0.23	0.59	4.69	0.05	0.01	0.03	0.06					1962.82	441.63	
3	October 2012	0.02	1.87	2.13	0.19	0.5	3.67	0.03	0	0.03	0.04					1400.37	365.5	
4	July 2013	0.02	9.79	5.89	0.38	0.46	10.93	0.06	0.02	0.09	0.16					1400 cy.	195.05	Wheat (31 acres)
3	Aug-16	0.03	2.87	2.88	0.27	0.54	5.02	0.03	0	0.03	0.13					2006.15	441.35	
5	Nov-16	0.02	2.12	1.58	0.21	0.48	4.35	0.03	0.01	0.03	0.16					1595.98	341.54	
6	Aug-17	0.06	5.29	5.99	0.53	1.4	10.99	0.1	0.01	0.06	0.08					1959.99	784.00	
5	18-Aug	0.03	3.18	3.63	0.35	0.73	6.54	0.08	0.01	0.08	0.11					2205.19	545.78	
7	Jul-19	0.08	6.75	6.15	0.81	0.34	7.43	0.08	0.01	0.06	0.1					2419.97	784.07	
3	Jul-22	0.03	2.85	3.27	0.29	0.5	5.13	0.08	0	0.08	0.11					2460.99	509.42	
3	Jul-23	0.05	5.24	5.84	0.54	1.05	10.82	0.11	0.01	0.11	0.19					2245.53	750.01	
8	Jul-23	0.003	0.038	0.417	0.018	0.003	0.062	0.000	0.000	0.000	0.000	0.007	5.38 pci/g			911.87	343.6	
9	Aug-24	0.000	0.150	0.090	0.010	0.000	0.190	0.000	0.000	0.190	0.000	0.000			134		21.39	
10	Aug-24	0	0.33	0.93	0.03	0.06	0.84	0.01	0	0.01	0.02					174.35	60.85	
3	Aug-24	0.01	2.76	3.35	0.25	0.56	5.76	0.07	0	0.07	0.09					2193.15	478.11	
8	Aug-24	0.006	0.077	0.504	0.035	0.006	0.1	0	0	0	0	0.013	12.3 pci/g			653.00	271.91	
	TOTAL	0.47	54.97	351.34	5.04	9.81	94.62	0.95	0.11	0.98	1.56	0.0200						
	%of LIMIT	4.7	22	39	5	1	18.9	1	0.1	12.3	9.7							

Background Radium	1.590	pci/g
Site Limit	3.000	pci/g
Cumulative total to Date	1.610	pci/g
% of Total Cumulative Limit	53.67	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	LaSalle	Tax Parcel ID Number *(PIN)**	See next page
Section Number	5	Township *(Number and Direction)*	T34N
Tillable Acres	134	Range *(Number and Direction)*	R5E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		LS Gunderson 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.75	+ / -	0	Radium-228	0.77	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
8/6/24	459.78	3.4	134	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Jan 7, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1275

LS Gunderson 1 PIN

16-05-101-000

16-05-102-000

16-05-301-000

16-05-302-000

John Stewart

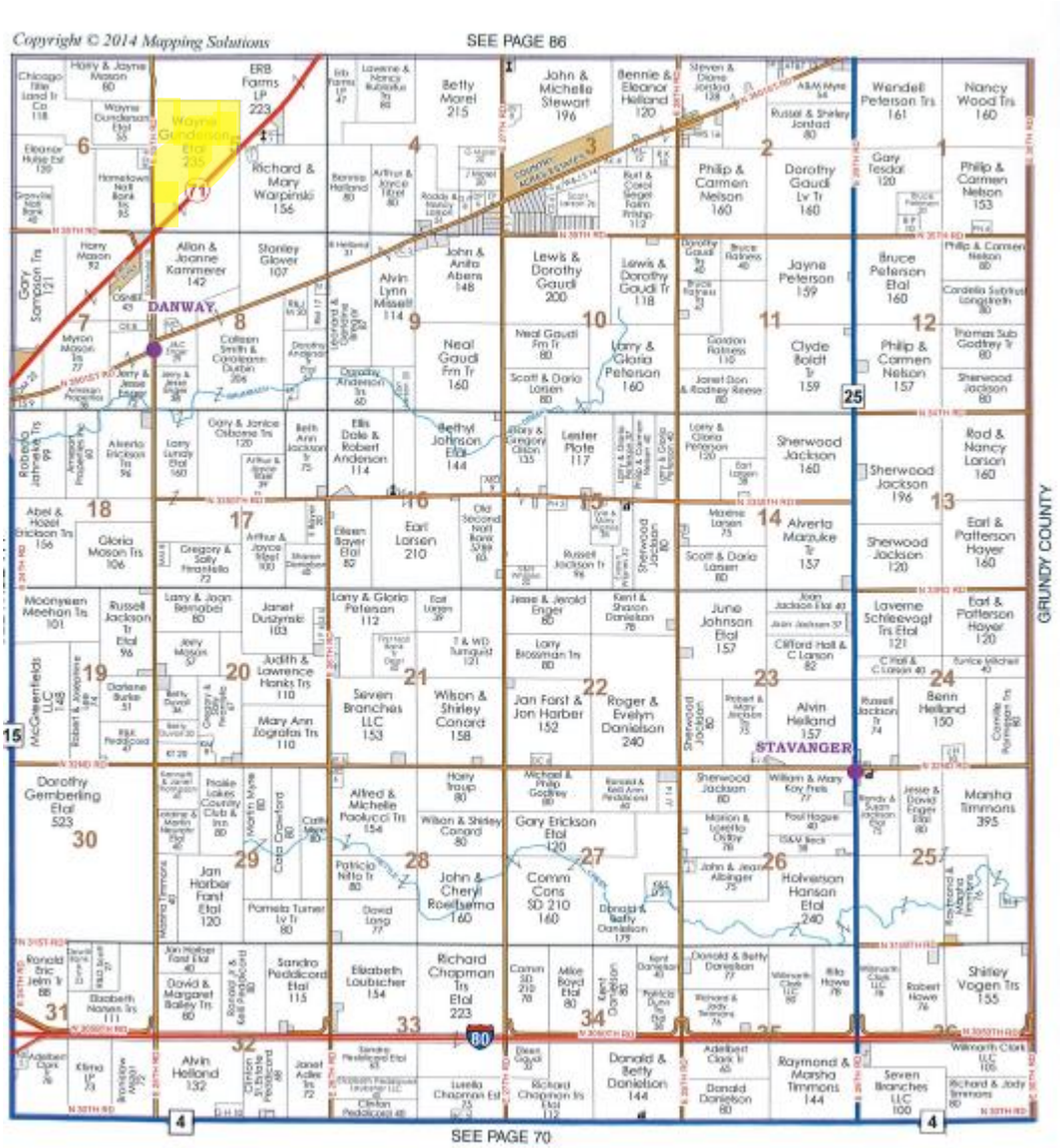
LS Gunderson 1

134 acres

LaSalle County

Milller Township

Section 5



John Stewart

LS Gunderson 1
134 acres
LaSalle County
Milller Township
Section 5

91B	Swygert silty clay loam, 2 to 4 percent slopes	11.1	8.1%	0.02 to 0.06 in/hr
228B	Nappanee silt loam, 2 to 4 percent slopes	1.5	1.1%	0.02 to 0.06 in/hr
228C3	Nappanee silty clay loam, 4 to 6 percent slopes, severely eroded	1.0	0.7%	.02 to 0.06 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	21.2	15.5%	0.02 to 0.06 in/hr
238A	Rantoul silty clay, 0 to 2 percent slopes	2.1	1.5%	0.02 to 0.06 in/hr
241E3	Chatsworth silty clay, 12 to 20 percent slopes, severely eroded	0.0	0.0%	0.02 to 0.06 in/hr
320B	Frankfort silt loam, 2 to 4 percent slopes	25.6	18.6%	0.02 to 0.06 in/hr
320C2	Frankfort silty clay loam, 4 to 6 percent slopes, eroded	54.8	39.9%	0.02 to 0.06 in/hr
375B	Rutland silty clay loam, 2 to 5 percent slopes	6.9	5.0%	0.02 to 0.06 in/hr
554B	Kernan silt loam, 2 to 4 percent slopes	13.0	9.5%	0.02 to 0.06 in/hr
Totals for Area of Interest		137.4	100.0%	



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, May 24, 2023

Greg Firantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G230145-8 is in Table 1. Stewart Spreading identified the samples as KE Dhuse 5 (soil), LS Gunderson 1 (soil), KE Dhuse 2 (soil), and KE Seth Sleezer 7 (soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G230145	G230146	G230147	G230148
	KE Dhuse 5 (soil)	LS Gunderson 1 (soil)	KE Dhuse 2 (soil)	KE Seth Sleezer 7 (soil)
Ac-228	1.37	0.77	1.28	1.42
Ra-228[1]	1.37	0.77	1.28	1.42
Pb-214	< 0.07^	0.75	< 0.07^	1.01
Bi-214	0.81	0.74	0.84	1.19
Ra-226[2]	0.81	0.75	0.84	1.10
Total Radium[3]	2.18	1.52	2.12	2.52

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 134
COUNTY: LaSalle
TOWNSHIP: Miller
SECTION: 5

FARMER: John Stewart
ADDRESS: 3870 N. IL Rt. 71
Sheridan, IL 60551

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 27
3 Marathon Lag 25 w/cells 2, 3, 4
4 DuPage
5 Lasma Lagoon 28
6 Glendale Height

Metal Loadings in Pounds per Ac

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Apr-23	0.004	0.065	0.717	0.030	0.004	0.106	0.000	0.000	0.000	0.000	0.012	5.38 pci/g			1631.67	599.38
2	May-23	0.030	4.940	6.370	0.530	0.990	9.820	0.030	0.010	0.110	0.160					2867.02	733.96
3	May-23	0.030	4.390	6.190	0.380	0.850	7.450	0.030	0.010	0.090	0.120					2073.1	611.56
4	May-23	0.000	0.190	0.090	0.010	0.010	0.220	0.000	0.000	0.000	0.000					150	18.85
5	Oct-23	0.040	6.220	6.880	0.600	1.560	13.140	0.040	0.010	0.150	0.250					3920.49	987.96
2	Jul-24	0.020	3.000	3.500	0.280	0.580	6.150	0.080	0.000	0.080	0.100					2489.43	517.8
1	Jul-24	0.002	0.022	0.141	0.010	0.002	0.028	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			209.94	74.91
6	Aug-24	0.000	0.020	0.010	0.000	0.000	0.050	0.000	0.000	0.000	0.000				20		2.75
5	Aug-24	0.020	3.050	3.700	0.270	0.620	6.360	0.080	0.000	0.080	0.100					2456.63	535.55
1	Aug-24	0.010	0.124	0.806	0.056	0.010	0.161	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			1135.52	459.78
	TOTAL	0.16	22.02	28.4	2.17	4.63	43.49	0.26	0.03	0.51	0.73	0.036	pci/g				
	%of LIMIT	1.6	8.8	3.2	2.2	0.5	8.7	0.3	0.1	6.4	4.5						

1	Background Radium	1.520	pci/g
2	Site Limit	2.520	pci/g
3	Cumulative total to Date	1.556	pci/g
4	% of Total Cumulative Limit	61.75	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 3/17/24

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Route 71 Sheridan, IL 60551

4.) Phone Number of User: 630-768-0411

5.) Location Where Sludge is to be Used: LS Hamman 5

6.) Size of Area Where Lime Residuals are to be Used: 150 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic Rate

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing,

Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: Less than 60 days

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: See soil map

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? YES NO (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 2100 wet tons

Years Applied 2019 and 2021 and 2022 and 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 3 LS Stewart 3

6.) Size of Area Where Lime is to be Used: 190 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? (Yes) No (Circle One)
Name of Generator Aurora Lime
Amount Applied Approx 4000 wet tons
Years Applied 2020, 2021,2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 28, 2024

2.) Name of User: Bill Mitchell

3.) Address of User: 4762 E 16th Road

4.) Phone Number of User: 815-739-1317

5.) Location Where Lime is to be Used: LaSalle County, Earl Township, Section 2 LS Bill Mitchell 1

6.) Size of Area Where Lime is to be Used: 80 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1,000 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Organic Biosolids/Lime Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Organic Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Biosolids contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Organic Biosolids and/or Lime as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Organic Biosolids/Lime can be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

William Mitchell 6/28/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 12-18-18

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax 815.695.5770 Website: www.Stewartspreading.com

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 22, 2024

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-553-2798

5.) Location Where Lime is to be Used: Kendall County, Big Grove Township, Section 30 KE Moe 6

6.) Size of Area Where Lime is to be Used: 35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe)

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes No (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 300 wet tons

Years Applied 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Benjamin D. Smoe 7/22/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 22, 2024

2.) Name of User: Benjamin H. Moe

3.) Address of User: 415 Walnut Street Yorkville, IL 60560

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: Kendall County, KE Moe 8

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	70	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 900 wet tons
Years Applied 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Benjamin D. Smoe 7/22/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: LaSalle County, Miller Township, Section 5

6.) Size of Area Where Lime is to be Used: 134 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application with incorp

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied approx. 1600 wet tons
Years Applied 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

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STEWART SPREADING INC.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	09-08-200-002,09-05-400-023
Section Number	8	Township *(Number and Direction)*	T35N
Tillable Acres	218	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Santoro 6	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.85	+ / -	0	Radium-228	0.97	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/13/24 and 9/14/24	741.44	3.4	218	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Sep-24**

Biosolids Field Record

KE Santoro 6

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
7/19/2024	9/13 and 9/14/24	City of Aurora - Lime	285.77	37.66	107.62
9/12/2024	9/13/2024	City of Aurora - Lime	899.41	36.13	324.96
9/13/2024	9/13/2024	City of Aurora - Lime	911.1	33.9	308.86
Total			2096.28		741.44

Biosolids Field Record

KE Collins 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/21/2024	9/7/2024	City of Aurora - Lime	516.16	36.09	186.28
Total			516.16		186.28

Biosolids Field Record

KE Dana Friestad 13

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/21/2024	9/7/2024	City of Aurora - Lime	503.26	36.09	181.63
Total			503.26		181.63

Biosolids Field Record

KA Ruh 8

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/3/2024	9/6/2024	City of Aurora - Lime	456.95	36.09	164.91
9/4/2024	9/6/2024	City of Aurora - Lime	188.36	33.83	63.72
Total			645.31		228.64

Biosolids Field Record

KE Stewart 4

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
8/1/2024	9/9/2024	City of Aurora - Lime	185.45	41.64	77.22
Total			185.45		77.22

Biosolids Field Record

KA Ruh 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/3/2024	9/3/2024	City of Aurora - Lime	501.26	36.09	180.90
9/4/2024	9/6/2024	City of Aurora - Lime	256.81	33.83	86.88
Total			758.07		267.78

Biosolids Field Record

KA Ruh 9

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/4/2024	9/6/2024	City of Aurora - Lime	302.58	33.83	102.36
Total			302.58		102.36

Biosolids Field Record

KE Swenson 24

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/4/2024	9/6/2024	City of Aurora - Lime	235.43	33.83	79.65
9/6/2024	9/6 and 9/7/24	City of Aurora - Lime	249.6	34.48	86.06
Total			485.03		165.71

Biosolids Field Record

KE Santoro 320

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/9/2024	9/14/2024	City of Aurora - Lime	1097.75	35.69	391.79
9/10/2024	9/14/2024	City of Aurora - Lime	1358.35	30.54	414.84
9/11/2024	9/14/2024	City of Aurora - Lime	550.96	33.46	184.35
9/11/2024	9/14/2024	City of Aurora - Lime	511.22	33.78	172.69
9/12/2024	9/14/2024	City of Aurora - Lime	162.72	36.13	58.79
Total			3681.00		1222.46

Biosolids Field Record

KE Lincolnway 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
9/6/2024	9/6/2024	City of Aurora - Lime	557.87	34.48	192.35
Total			557.87		192.35

Santoro

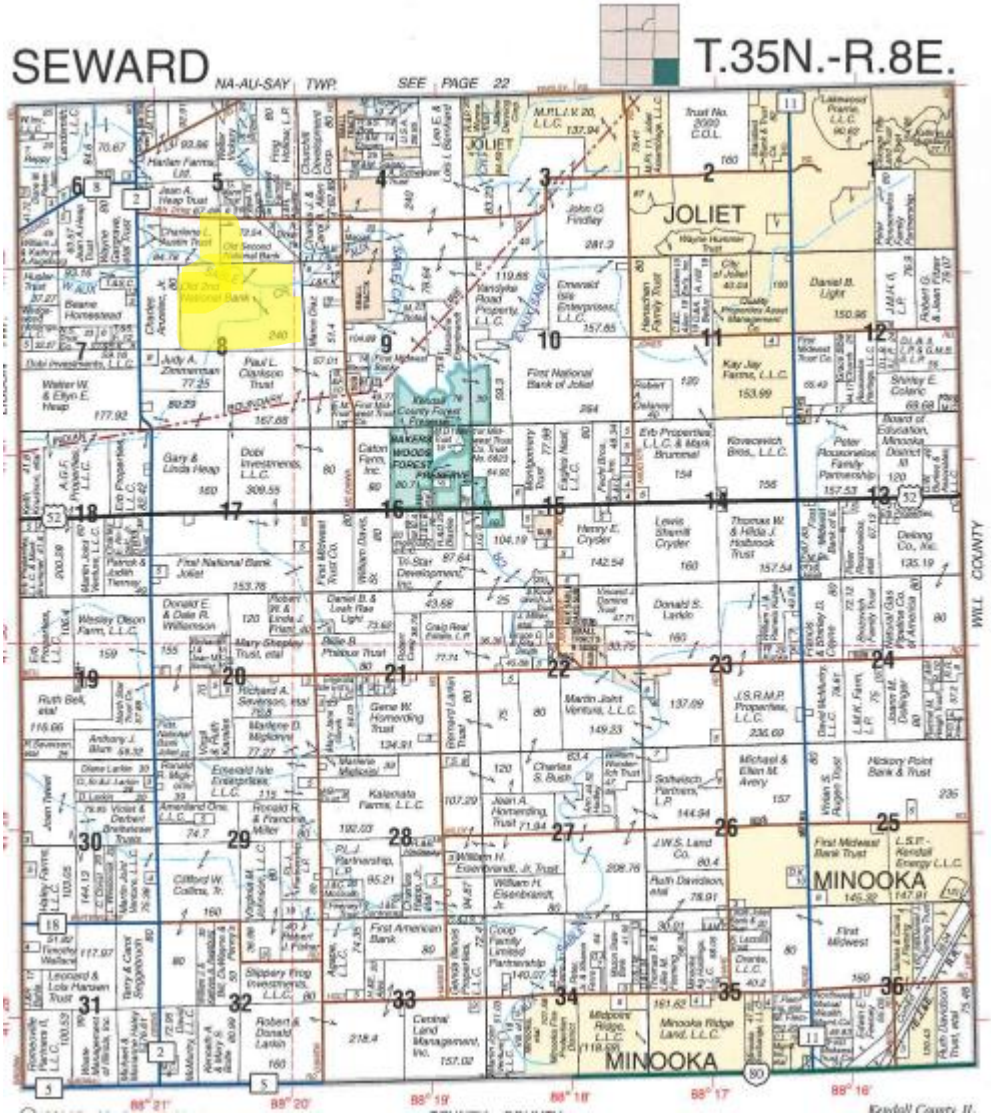
KE Santoro 6

218 acres

Kendall County

Steward Township

Section 8



Santoro

KE Santoro 6

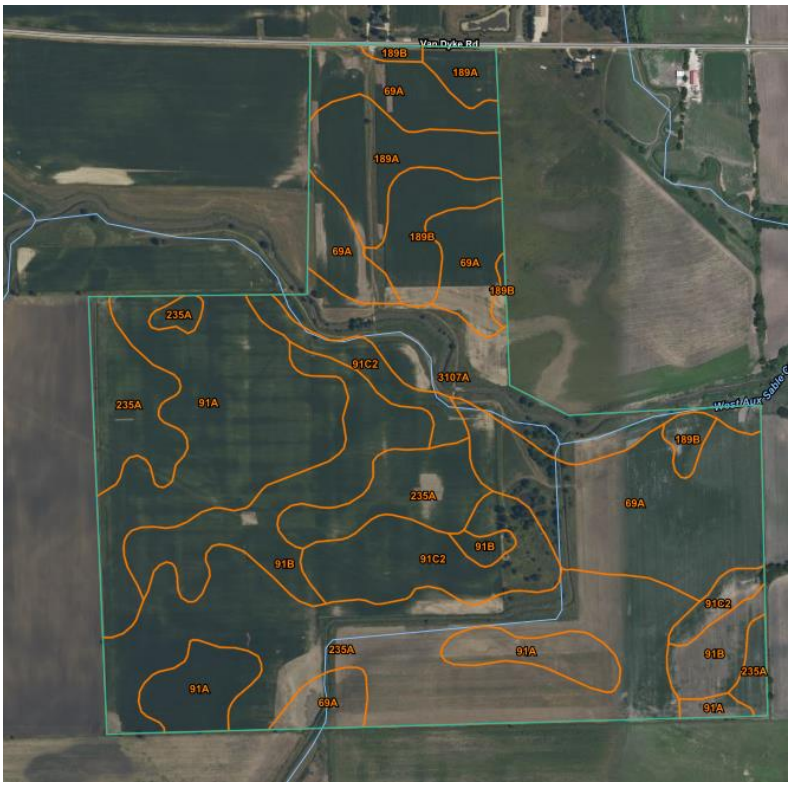
218 acres

Kendall County

Steward Township

Section 8

69A	Milford silty clay loam, 0 to 2 percent slopes	50.3	19.8%	0.20 to 0.60 in/hr
91A	Swygert silty clay loam, 0 to 2 percent slopes	43.7	17.2%	0.02 to 0.06 in/hr
91B	Swygert silty clay loam, 2 to 4 percent slopes	22.8	9.0%	0.02 to 0.06 in/hr
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	22.1	8.7%	0.02 to 0.06 in/hr
189A	Martinton silt loam, 0 to 2 percent slopes	14.3	5.6%	0.20 to 0.60 in/hr
189B	Martinton silt loam, 2 to 4 percent slopes	10.3	4.1%	0.20 to 0.60 in/hr
235A	Bryce silty clay, 0 to 2 percent slopes	72.3	28.4%	0.02 to 0.06 in/hr
3107A	Sawmill silty clay loam, heavy till plain, 0 to 2 percent slopes, frequently flooded	18.5	7.3%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, October 17, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240198-201 is in Table 1. Stewart Spreading identified the samples as KE Santoro 6 (Soil), KE Collins 1 (Soil), KA Rue 8 (Soil), and LE Heiman 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240198	G240199	G240200	G240201
	KE Santoro 6 (Soil)	KE Collins 1 (Soil)	KA Rue 8 (Soil)	LE Heiman 1 (Soil)
Ac-228	0.97	< 0.09	0.82	< 0.09
Ra-228[1]	0.97	< 0.09	0.82	< 0.09
Pb-214	< 0.04^	< 0.05^	0.70	0.69
Bi-214	0.85	0.75	0.67	0.75
Ra-226[2]	0.85	0.75	0.69	0.72
Total Radium[3]	1.82	< 0.85	1.51	< 0.81

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	KE Santoro 6	COUNTY:	Kendall		Source of biosolids
ACREAGE:	218	TOWNSHIP:	Steward Tc	1	Aurora Lime
		SECTION:	8		
FARMER:	Frank Santoro				
ADDRESS:	2080 Simons Rd				
	Oswego, IL 60543				
PHONE #:					

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Sept.24	0.01	0.131	0.857	0.059	0.01	0.171	0	0	0	0	0.021	12.3 pci/g
	TOTAL	0.01	0.13	0.86	0.06	0.01	0.17	0	0	0	0	0.021	pci/g
	%of LIMIT	0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	1.820	pci/g
Site Limit	2.820	pci/g
Cumulative Total to Date	1.841	pci/g
% of Total Cumulative Limit	65.28	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See next page
Section Number	13	Township *(Number and Direction)*	T36-37N
Tillable Acres	50	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Collins 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.75	+ / -	0	Radium-228	0.09	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/7/24	186.28	3.7	50	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Tim Collin & Brian Moran

604 E. 1 st St

Hinsdale IL 60521

630-263-1361

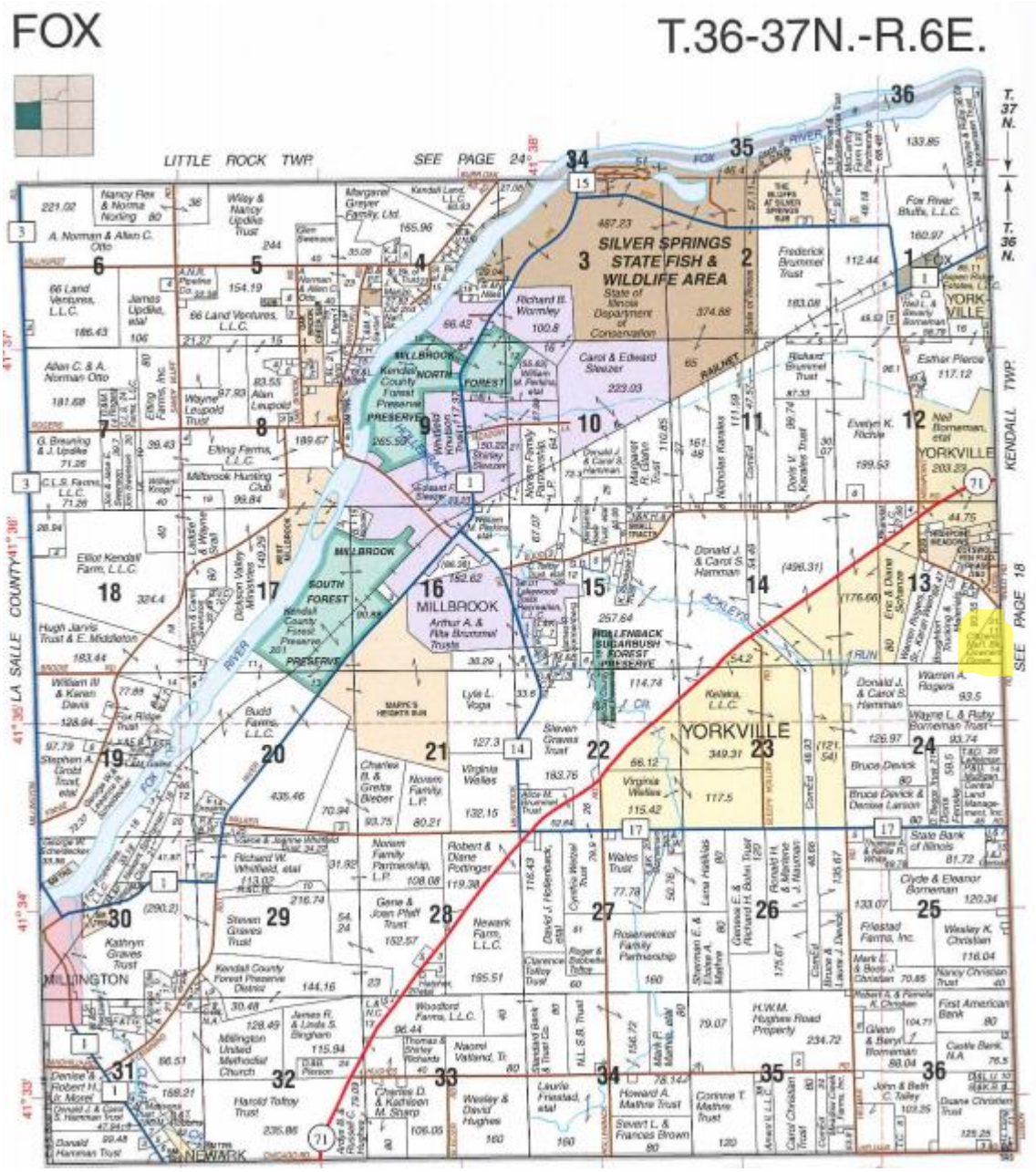
KE Collins 1

50 acres

Kendall County

Fox Township

Section 13



PLAT MAP

Farmer____Tim_Collins_____ Field Code___KE Collins_____

Address_____ Acres ___47_____

City, State, Zip_____ County_____Kendall_____

Phone_____ Township____Fox_____

Section ____13_____

60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	10.6	22.0%	0.06 to 0.60 in/hr
224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded	2.4	5.0%	0.06 to 0.60 in/hr
224F2	Strawn silt loam, 18 to 35 percent slopes, eroded	0.0	0.0%	0.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	3.2	6.6%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	3.8	7.8%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	27.5	57.3%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.6	1.3%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, October 17, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240198-201 is in Table 1. Stewart Spreading identified the samples as KE Santoro 6 (Soil), KE Collins 1 (Soil), KA Rue 8 (Soil), and LE Heiman 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

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	G240198	G240199	G240200	G240201
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Ra-228[1]	0.97	< 0.09	0.82	< 0.09
Pb-214	< 0.04^	< 0.05^	0.70	0.69
Bi-214	0.85	0.75	0.67	0.75
Ra-226[2]	0.85	0.75	0.69	0.72
Total Radium[3]	1.82	< 0.85	1.51	< 0.81

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER:	1	COUNTY:	Kendall
ACREAGE:	50	TOWNSHIP:	Fox
		SECTION:	13

FARMER: Tim Collin and Brian Moran
ADDRESS: 604 E 1st Street
Hinsdale, IL 60521
PHONE #: 630-263-1361

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sep-24	0.03	6.24	7.58	0.56	1.27	13.02	0.16	0.00	0.16	0.21	0.0000				1912.76	416.98
2	Sep-24	0.01	0.14	0.93	0.06	0.01	0.19	0.00	0.00	0.00	0	0.0230	12.3 pci/g			516.16	186.28
TOTAL		0.04	6.38	8.51	0.62	1.28	13.21	0.16	0	0.16	0.21	0.023	pci/g				
%of LIMIT		0.4	2.6	0.9	0.6	0.1	2.6	0.2	0	2	1.3						

1	Background Radium	0.850	pci/g
2	Site Limit	1.850	pci/g
3	Cumulative total to Date	0.87	%
4	% of Total Cumulative Limit	47.19	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium increase is 1 pci/g up to 3 pci/g total (2)
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-10-200-002
Section Number	10	Township *(Number and Direction)*	T35N
Tillable Acres	39	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Dana Friestad 13	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.62	+ / -	0	Radium-228	0.95	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/7/24	181.63	4.6	39	7.6	4.7

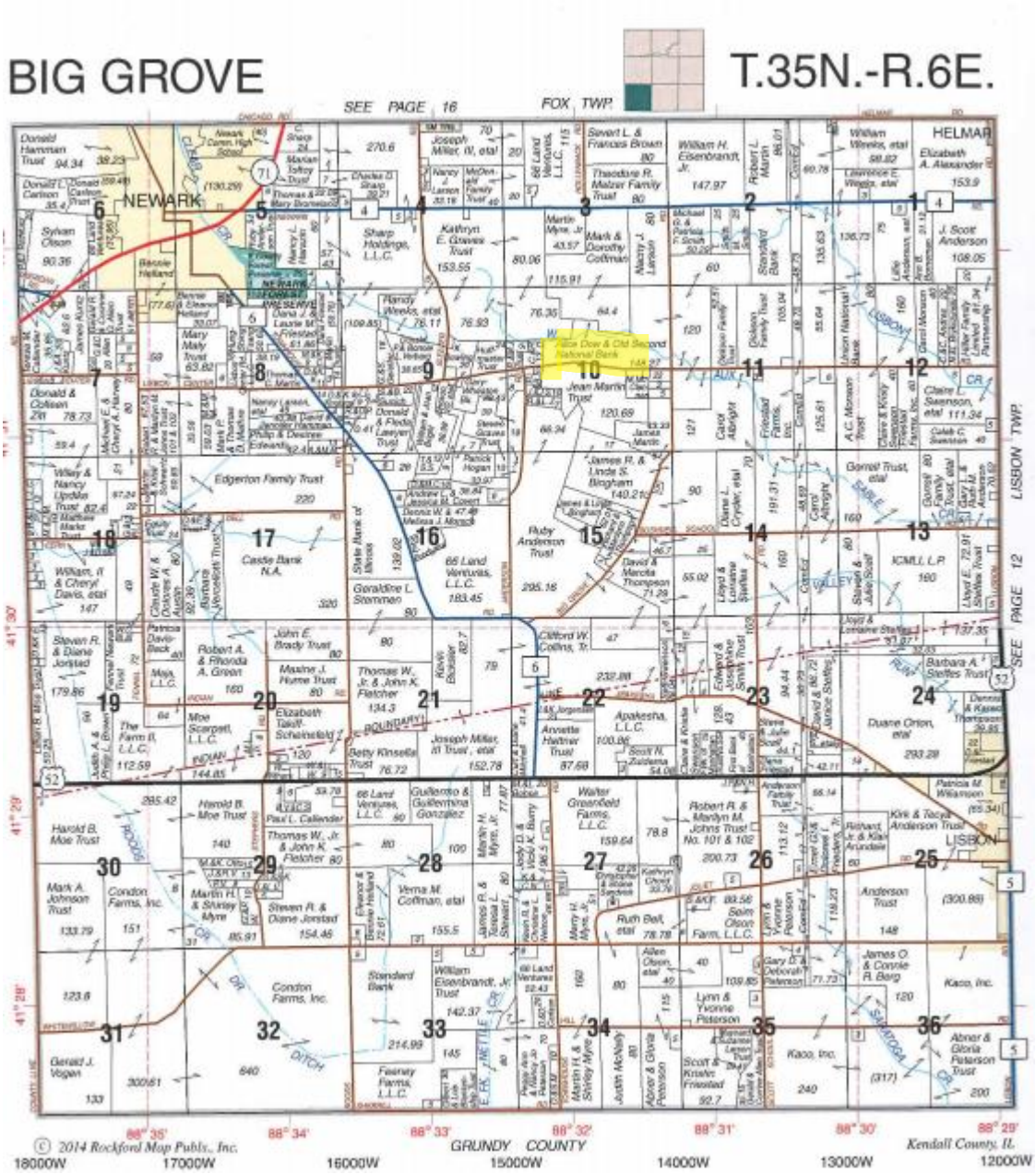
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dana Friested

KE Dana Friested 13
39 acres
Kendall County
Big Grove Township
Section 10



LRM1308

Dana Friested

KE Dana Friested 13
39 acres
Kendall County
Big Grove Township
Section 10

104A	Virgil silt loam, 0 to 2 percent slopes	7.2	17.9%	0.60 to 2.00 in/hr
193A	Mayville silt loam, 0 to 2 percent slopes	0.6	1.6%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	7.6	18.9%	0.06 to 0.60 in/hr
193C2	Mayville silt loam, 5 to 10percent slopes, eroded	0.5	1.3%	0.06 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	0.2	0.6%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	18.8	46.9%	0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	0.3	0.8%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	4.8	12.0%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Friday, March 14, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 13, 14, 15, 16, 17 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250081 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 13, 14, 15, 16, 17 (Soil) collected on March 15, 2024. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250081
	KE Dana Friestad 13, 14, 15, 16, 17 (Soil)
Ac-228	0.95
Ra-228[1]	0.95
Pb-214	0.62
Bi-214	0.63
Ra-226[2]	0.62
Total radium[3]	1.57

[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the

METAL LOADING RECORD

SITE NUMBER: KE Dana Friested 13
ACREAGE: 39
COUNTY: Kendall
TOWNSHIP: Big Grove Township
SECTION: 10
FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Sep-24	0.04	7.4	8.99	0.66	1.51	15.44	0.19	0.01	0.19	0.25		
2	Sep-24	0.014	0.181	1.184	0.082	0.014	0.236	0.000	0.000	0.000	0.000	0.030	12.3 pci/g
	TOTAL	0.05	7.58	10.17	0.74	1.52	15.68	0.19	0.01	0.19	0.25	0.03	pci/g
	%of LIMIT	0.5	3	1.1	0.7	0.2	3.1	0.2	0.1	2.4	1.6		

1	Background Radium	1.570	pci/g
2	Site Limit	2.570	pci/g
3	Cumulative Total to Date	1.600	pci/g
4	% of Total Cumulative Limit	62.26	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	See Next page
Section Number	20	Township *(Number and Direction)*	T40N
Tillable Acres	75	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KA Ruh 8

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.69	+ / -	0	Radium-228	0.82	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/6/24	228.64	3	75	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	See next page
Section Number	20	Township *(Number and Direction)*	T40N
Tillable Acres	72	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KA Ruh 7

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.69	+ / -	0	Radium-228	0.82	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/3/24 and 9/6/24	267.78	3.7	72	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW (●) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	See next page
Section Number	20	Township *(Number and Direction)*	T40N
Tillable Acres	27	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KA Ruh 9	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.69	+ / -	0	Radium-228	0.82	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/6/24	102.36	3.8	27	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

PLAT MAP

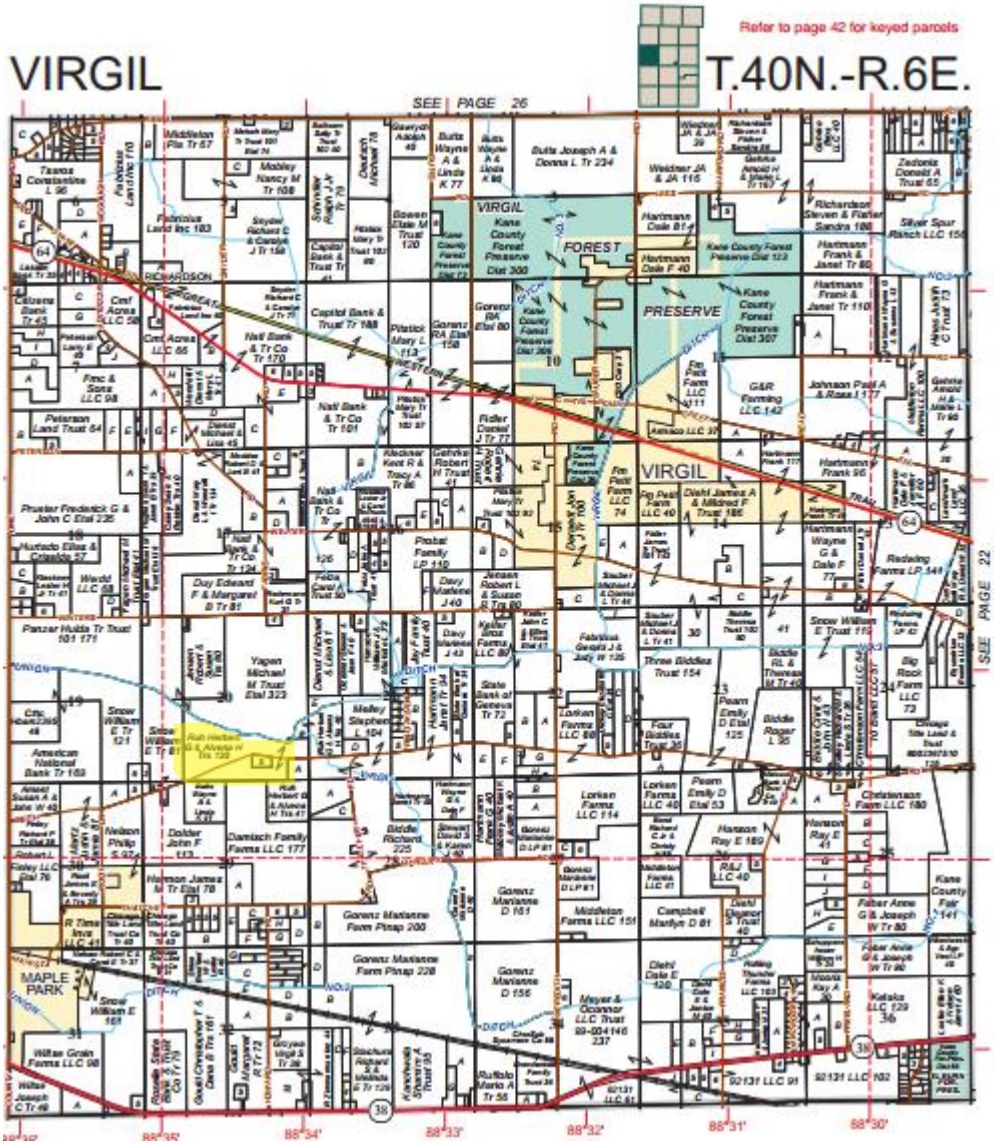
Farmer___Steve Ruh_____ Field Code____KA Ruh 7,8,9_____

Address____45725 Swan RD_____ Acres ____174_____

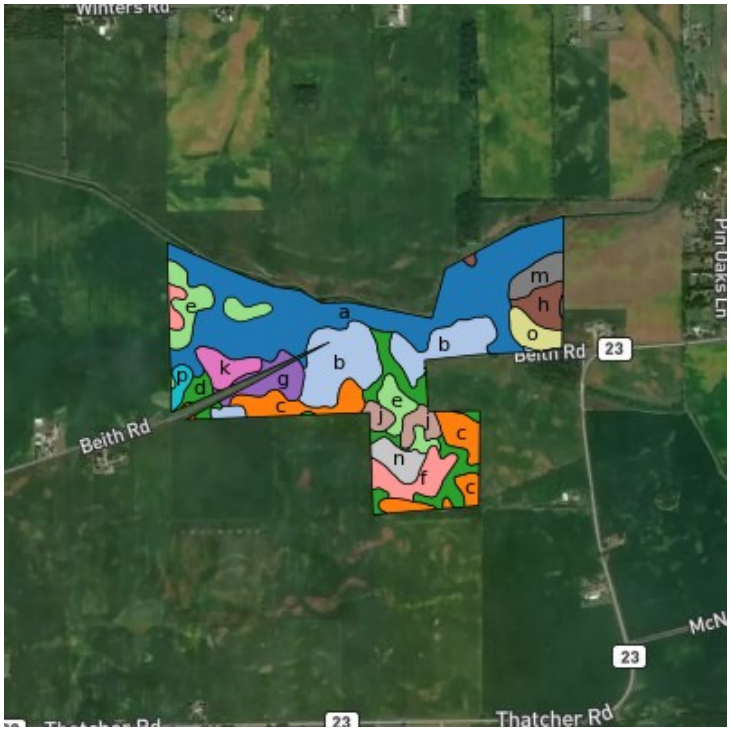
City, State, Zip___Big Rock IL 60511____ County_____Kane_____

Phone__630-556-3470_____ Township_____Virgil_____

Section ____20_____



Spirit Family Farms : RUH Farms : KA Ruh 7,8 and 9



Map Details

State: IL

County: Kane

QQQ:

Location: 20-40N-6E

Township: Virgil township

Acres: 217.0

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 3076A	Otter silt loam, 0 to 2 percent slopes, frequently flooded	75.8	34.9	222	66	5.00	0	0.62
(b) 325B	Dresden silt loam, 2 to 4 percent slopes	32.8	15.1	184	54	3.00	0	0.63
(c) 662B	Barony silt loam, 2 to 5 percent slopes	19.6	9.0	203	58	3.00	0	0.88
(d) 152A	Drummer silty clay loam, 0 to 2 percent slopes	17.7	8.2	226	67	5.50	0	0.83
(e) 149A	Brenton silt loam, 0 to 2 percent slopes	16.3	7.5	228	64	4.00	0	0.93
(f) 663A	Clare silt loam, 0 to 2 percent slopes	10.2	4.7	213	61	4.00	0	0.88
(g) 325C2	Dresden silt loam, 4 to 6 percent slopes, eroded	7.1	3.3	174	50	3.00	0	0.59
(h) 219A	Millbrook silt loam, 0 to 2 percent slopes	6.3	2.9	209	60	3.00	0	0.89
(j) 330A	Peotone silty clay loam, 0 to 2 percent slopes	6.2	2.9	188	57	6.20	0	0.63
(k) 570B	Martinsville silt loam, 2 to 4 percent slopes	5.8	2.7	184	53	2.00	0	0.89
(m) 668B	Somonauk silt loam, 2 to 5 percent slopes	5.8	2.7	192	53	2.00	0	0.86
(n) 663B	Clare silt loam, 2 to 5 percent slopes	5.5	2.5	207	60	3.50	0	0.91
(o) 134C2	Camden silt loam, 5 to 10 percent slopes, eroded	5.3	2.4	180	49	1.50	0	0.85
(p) 344C2	Harvard silt loam, 5 to 10 percent slopes, eroded	2.3	1.1	188	54	2.50	0	0.79
(q) 668A	Somonauk silt loam, 0 to 2 percent slopes	0.3	0.1	194	53	2.00	0	0.90
	Weighted Average			**208**	**61**	**4.03**	**0.0**	**0.73**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Thursday, October 17, 2024

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Soil Samples

Mr. Firrantello:

A summary of gamma spectroscopy results for RSSI's sample numbers G240198-201 is in Table 1. Stewart Spreading identified the samples as KE Santoro 6 (Soil), KE Collins 1 (Soil), KA Rue 8 (Soil), and LE Heiman 1 (Soil), respectively. The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy reports.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g]

Radionuclide	Sample IDs			
	G240198	G240199	G240200	G240201
	KE Santoro 6 (Soil)	KE Collins 1 (Soil)	KA Rue 8 (Soil)	LE Heiman 1 (Soil)
Ac-228	0.97	< 0.09	0.82	< 0.09
Ra-228[1]	0.97	< 0.09	0.82	< 0.09
Pb-214	< 0.04^	< 0.05^	0.70	0.69
Bi-214	0.85	0.75	0.67	0.75
Ra-226[2]	0.85	0.75	0.69	0.72
Total Radium[3]	1.82	< 0.85	1.51	< 0.81

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

METAL LOADING RECORD

SITE NUMBER: 8
ACREAGE: 75
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.009	0.116	0.756	0.052	0.009	0.151	0	0	0	0	0.0190	12.3 pci/g			645.31	228.64
TOTAL		0.01	0.12	0.76	0.05	0.01	0.15	0	0	0	0	0.019	pci/g				
%of LIMIT		0.1	0	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.529	pci/g
4	% of Total Cumulative Limit	60.92	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 72
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.011	0.143	0.932	0.064	0.011	0.186	0	0	0	0	0.0230	12.3 pci/g			758.07	267.78
TOTAL		0.01	0.14	0.93	0.06	0.01	0.19	0	0	0	0	0.023	pci/g				
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.533	pci/g
4	% of Total Cumulative Limit	61.07	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

METAL LOADING RECORD

SITE NUMBER: 9
ACREAGE: 27
COUNTY: Kane
TOWNSHIP: Virgil
SECTION: 20

FARMER: Steve Ruh
ADDRESS: 45725 Swan Rd
Big Rock IL 60511
630-556-3470

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sept.24	0.011	0.147	0.958	0.066	0.011	0.191	0	0	0	0	0.0240	12.3 pci/g			302.58	102.36
TOTAL		0.01	0.15	0.96	0.07	0.01	0.19	0	0	0	0	0.024	pci/g				
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0						

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.534	pci/g
4	% of Total Cumulative Limit	61.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL0894070

(•) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-10-200-007
Section Number	10	Township *(Number and Direction)*	T36-37N
Tillable Acres	60	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Stewart 4

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (•) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.42	+ / -	0.11	Radium-228	1.05	+ / -	0.37

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/9/24	77.22	1.3	60	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

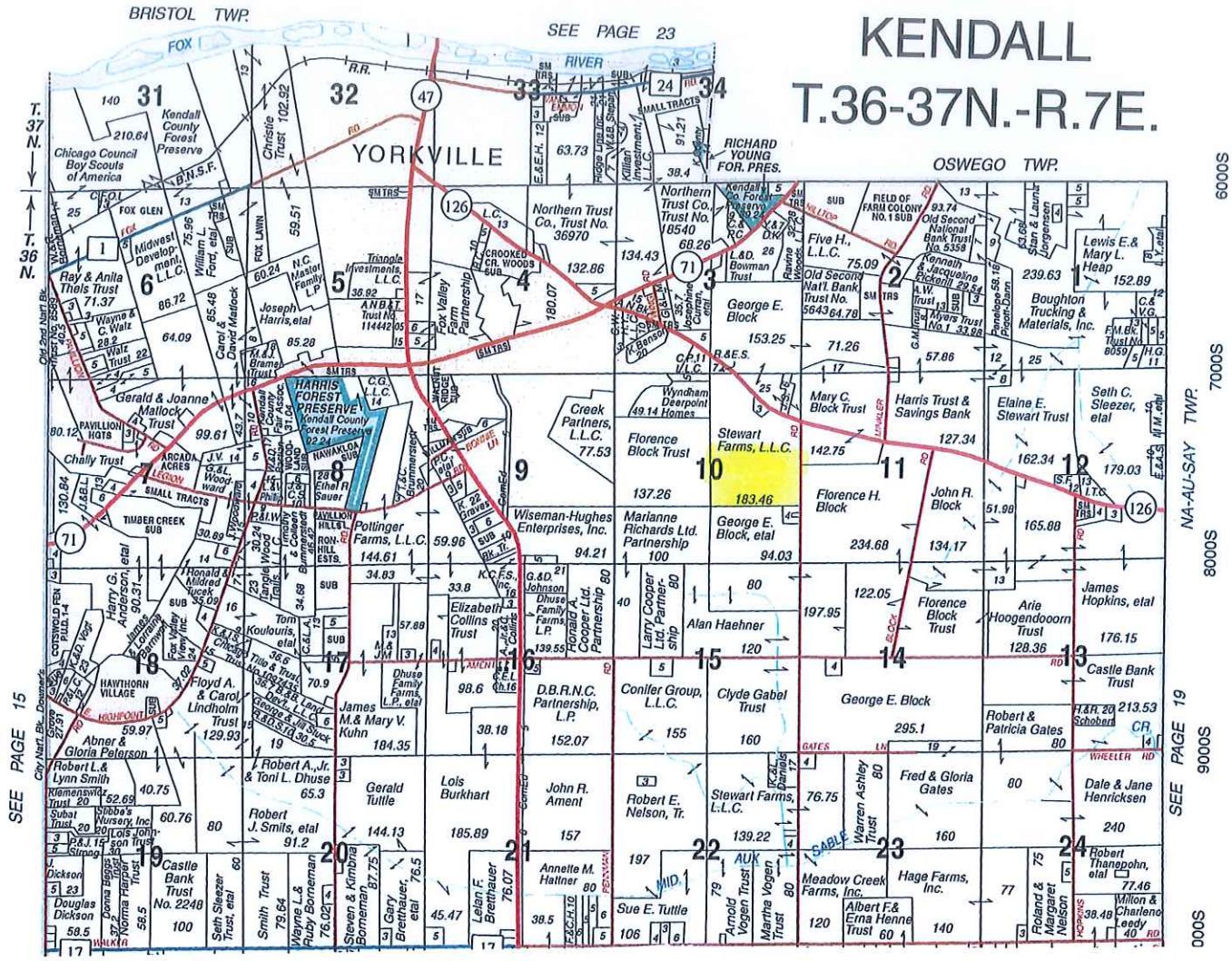
Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Stewart SPREADING

Plat Map

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10



Soil Series

John Stewart
3870 N Rt 71
Sheridan, IL 60551

KE Stewart 4
60 Acres
Kendall County
Kendall Township
Section 10

Soil Series & Texture		Percent Slopes	Permeability
59A	Lisbon silt loam	0 to 2 percent slopes	.06 - .60 on/hr
60C2	La Rose silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
60C3	La Rose clay loam	5 to 10 percent slopes, severely eroded	.06 - .60 on/hr
145B	Saybrook silt loam	2 to 5 percent slopes	.06 - .60 on/hr
145C2	Saybrook silt loam	5 to 10 percent slopes, eroded	.06 - .60 on/hr
356A	Elpaso silty clay loam	0 to 2 percent slopes	.20 - .60 on/hr



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

November 26, 2012

Client: Stewart Spreading, Inc
Address: 3870 N. Route 71
Sheridan, IL 60551

Received: 11/13/2012
Project #: N/A

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 4	1227216-04	07-Nov-12	Radium-226	0.42 +/- 0.11	pci/g	S	9315	1	0.4	23-Nov-12	CM

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KE Stewart 4	1227216-04	07-Nov-12	Radium-228	1.05 +/- 0.37	pci/g	S	9320	1	0.4	23-Nov-12	CM

"Analytical Integrity" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 • Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.settek.com

METAL LOADING RECORD

SITE NUMBER: KE Stewart 4
ACREAGE: 60
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 10

FARMER: John Stewart
ADDRESS: 3870 North Route 71
Sheridan, IL 60551
PHONE #: 815-695-1460

Metal Loadings in Pounds per Acre

Source of biosolids

1 Aurora - Lime
2 MWRDGC - Egan
3 LASMA - Marathon
4 Glenbard
5 Marseilles
6 DuPage
7 Lasma-Lagoon 28
8 Lasma-Lagoon 29
9 Lasma Lagoon 30
10 Lasma Lagoon 24
11 Plainfield
11 Plainfield
12 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	Lab Result pci/g
1	11/27/2012	0.000	0.053	1.480	0.060	0.015	0.370					0.022	pci/g			649.2	251.31	11.1
2	June 2013	0	1.97	1.83	0.18	0.1	2.04	0.02	0	0.02	0.02					666.34	162.39	
2	July 2013	0	2.41	2.12	0.19	0.11	2.55	0.02	0	0.02	0.03					841.4	201.18	
3	July 2013	0.05	7.36	8.12	0.73	1.91	14.52	0.08	0.02	0.08	0.17					2343.39	864.71	
4	Jun-15	0	0.93	0.21	0.02	0.04	0.94	0.001	0.002	0.09	0.09				560		86.05	
5	Jun-15	0.01	1.26	11.1	0.04	0.11	1.47	0.0198	0.0036	0.04	0.01	0.018			309		78.70	
6	July 2015	0.01	2.82	1.98	0.08	0.1	3.32	0.02	0.01	0.02	0.04				1350		168.87	
6	Aug 2015	0	0.68	0.64	0.02	0.04	0.87	0	0	0	0.01				350		48.44	
7	Nov 2016	0.05	4.95	3.97	0.55	1.44	10.57	0.07	0.01	0.06	0.12					2566.92	608.36	
8	Nov 2016	0.010	0.910	0.680	0.090	0.210	1.870	0.010	0.000	0.010	0.16					516.02	110.43	
8	Aug 2018	0.050	5.030	5.730	0.550	1.160	10.330	0.130	0.010	0.130	0.180					2684.10	664.31	
9	Oct 2019	0.080	10.170	13.120	1.000	2.200	19.990	0.310	0.010	0.100	0.290					2277.18	633.06	
10	Sept 20	0.110	12.580	14.080	1.280	2.780	24.530	0.420	0.020	0.140	0.390					2454.82	819.91	
11	September 21	0.014	1.070	0.620	0.060	0.020	1.460	0.020	0.001	0.020	0.030				756		101.92	
8	September 21	0.030	5.060	6.380	0.450	0.870	8.850	0.110	0.000	0.110	0.160					1453	344.36	
1	March 22	0.007	0.032	0.846	0.029	0.007	0.076	0.000	0.000	0.000	0.000	0.005				417.37	162.68	
7	August 22	.0.007	0.032	0.846	0.029	0.007	0.076	0.000	0.000	0.000	0.000					1902.58	405.25	
1	January 2023	0.004	0.058	0.642	0.027	0.004	0.095	0.000	0.000	0.000	0.000	0.011	5.38 pci/g			697.12	240.75	
7	Oct-23	0.050	7.100	7.860	0.680	1.780	15.010	0.050	0.010	0.170	0.290					2035.43	512.93	
12	Aug-24	0.030	5.890	6.640	0.540	1.230	12.740	0.150	0.000	0.150	0.210					2320.56	466.43	
1	Sept.24	0.004	0.050	0.328	0.023	0.004	0.065	0.000	0.000	0.000	0.000	0.008	12.3 pci/g			185.45	77.22	
	TOTAL	0.509	70.415	89.220	6.628	14.137	131.742	1.430	0.100	1.160	2.200	0.064	pci/g					
	%of LIMIT	5.1	28.2	9.9	6.6	1.4	26.3	1.4	0.7	14.5	13.7							

1	Background Radium	1.470	pci/g
2	Site Limit	2.470	pci/g
3	Cumulative Total to Date	1.534	pci/g
4	% of Total Cumulative Limit	63.73	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	08-07-400-005
Section Number	7	Township *(Number and Direction)*	T35N
Tillable Acres	141	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Swenson 24	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.80	+ / -	0	Radium-228	0.18	+ / -	0

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/6/24 and 9/7/24	165.71	1.2	141	7.6	4.7

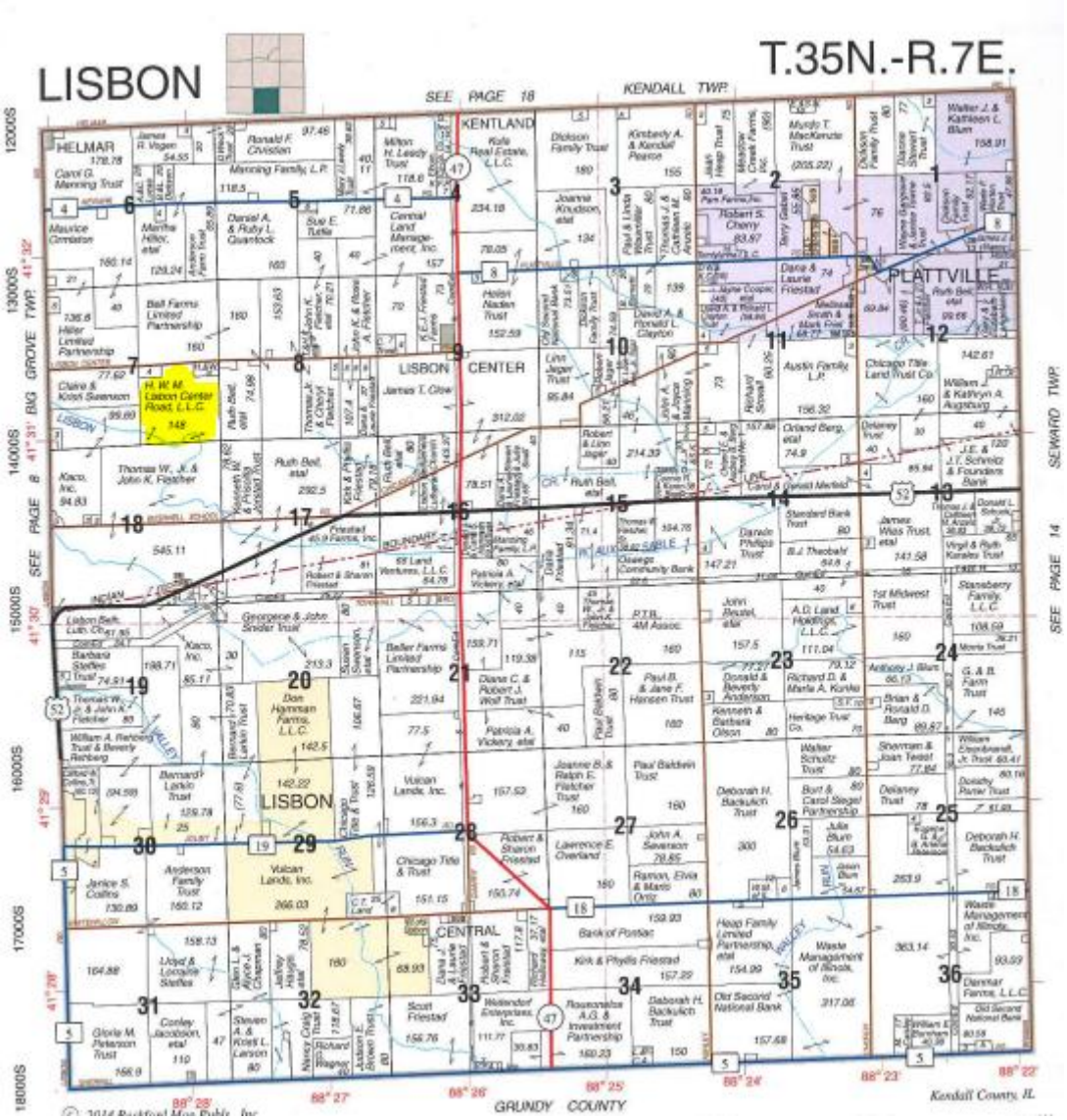
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Swenson

KE Swenson 24
141 acres
Kendall County
Lisbon Township
Section 7



LRM1327

Swenson

KE Swenson 24
141 acres
Kendall County
Lisbon Township
Section 7

59A	Lisbon silt loam, 0 to 2 percent slopes	40.7	28.9% 0.20 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	11.7	8.3% 0.06 to 0.60 in/hr
145A	Saybrook silt loam, 0 to 2 percent slopes	32.6	23.1% 0.06 to 0.60 in/hr
145B	Saybrook silt loam, 2 to 5 percent slopes	17.5	12.4% 0.06 to 0.60 in/hr
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	19.1	13.6% 0.06 to 0.60 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	18.6	13.2%0.60 to 2.00 in/hr



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: March 04, 2021
Workorder: **2101A73**

Client Sample ID: **KE Jim Brummel 2**
Lab ID: 2101A73-004 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:08 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.71	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.70	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Client Sample ID: **KE Swenson 24**
Lab ID: 2101A73-005 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:47 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.80	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.18	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Created: 3/4/2021 5:55:33 PM

METAL LOADING RECORD

SITE NUMBER: 24
ACREAGE: 141
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 7

FARMER: Claire Swenson
ADDRESS: 13620 Lisbon Rd
Newark, IL 60541
815-736-6163

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	November-20	0.008	0.031	0.62	0.029	0.008	0.074	0	0	0	0	0.0060	6.25 pci/g			724.8	274.84
1	December-20	0.008	0.033	0.659	0.03	0.008	0.079	0	0	0	0	0.0070	6.25 pci/g			824.08	290.99
2	Oct-21	0.08	6.66	7.79	0.67	1.33	13.38	0.16	0.01	0.16	0.28					5064.58	1114.21
1	Oct-22	0.003	0.039	0.431	0.018	0.003	0.064	0.000	0.000	0.000	0.000	0.0070	5.39 pci/g			1233.01	379.65
2	Sep-24	0.010	2.610	3.170	0.230	0.530	5.450	0.070	0.000	0.070	0.090					2234.6	487.14
1	Sep-24	0.004	0.046	0.302	0.021	0.004	0.060	0.000	0.000	0.000	0.000	0.008	12.3 pci/g			485.03	165.71
TOTAL		0.11	9.42	12.98	1	1.88	19.11	0.23	0.01	0.23	0.37	0.028	pci/g				
%of LIMIT		1.1	3.8	1.4	1	0.2	3.8	0.2	0	2.9	2.3						

1	Background Radium	0.980	pci/g
2	Site Limit	1.980	pci/g
3	Cumulative total to Date	1.008	pci/g
4	% of Total Cumulative Limit	50.91	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Pl

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

◉ CWS ○ POTW ○ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-17-400-002
Section Number	17	Township *(Number and Direction)*	T35N
Tillable Acres	309	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Santoro 320	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.71	+ / -	0	Radium-228	0.80	+ / -	0

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/14/25	1222.46	3.9	309	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1331

PLAT MAP

Farmer__Frank Santoro_____

Address_____2080 Simons Rd_____

City, State, Zip__Oswego, IL 60543_____

Phone_____

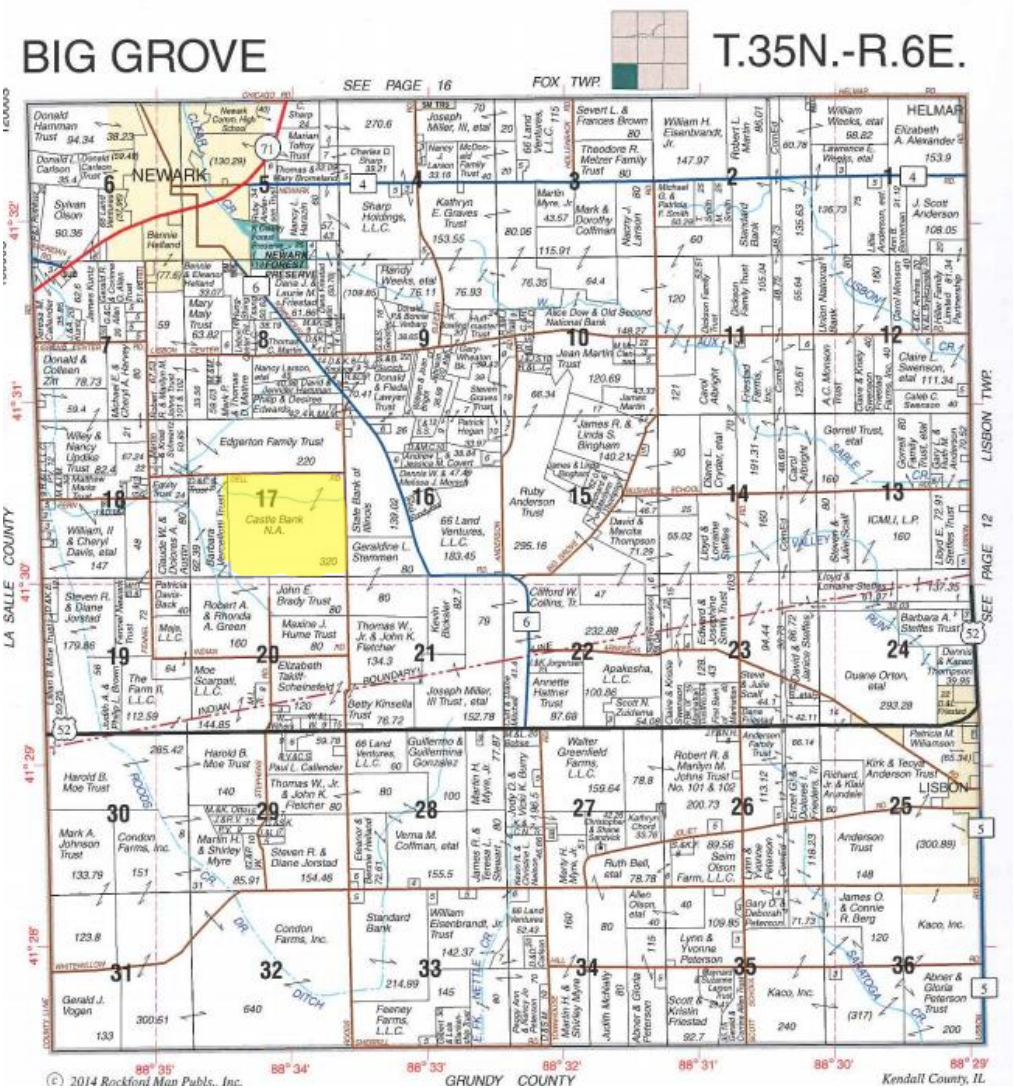
Field Code___KE_Santoro 320 Lime___

Acres ____309_____

County___Kendall _____

Township___Big Grove_____

Section ___17_____



LRM1332

Farmer_Frank Santoro_____ Field Code___KE_Santoro 320 Lime___

Address_2080 Simons_Rd_____ Acres ____309_____

City, State, Zip_Oswego, IL 60543_____ County___Kendall _____

Phone_____ Township___Big Grove_____

Section ___17_____

60B2	La Rose silt loam, 2 to 5 percent slopes, eroded	14.9	4.9%	0.06 to 0.60 in/hr
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	53.1	17.4%	0.06 to 0.60 in/hr
60C3	La Rose clay loam, 5 to 10 percent slopes, severely eroded	22.2	7.3%	0.06 to 0.60 in/hr
154A	Flanagan silt loam, 0 to 2 percent slopes	0.4	0.1%	0.20 to 0.60 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.0	0.3%	0.20 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	43.5	14.2%	0.20 to 0.60 in/hr
541A	Graymont silt loam, 0 to 2 percent slopes	0.5	0.2%	0.06 to 0.20 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	59.0	19.3%	0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	110.7	36.3%	0.06 to 0.20 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, January 22, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Santoro 320 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250017 is in Table 1. Stewart Spreading identified the sample as KE Santoro 320 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250017
	KE Santoro 320 (Soil)
Ac-228	0.80
Ra-228[1]	0.80
Pb-214	0.59
Bi-214	0.83
Ra-226[2]	0.71
Total radium[3]	1.51

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the

METAL LOADING RECORD

SITE NUMBER: KE Santoro 320
ACREAGE: 309
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 17

FARMER: Frank Santoro
ADDRESS: 2080 Simons Road
Oswego, IL 60543

Source of biosolids
1 Aurora Lime
2
3

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	lab results
1	Sept.24	0.012	0.1510	0.983	0.068	0.012	0.196	0.00	0.00	0.00	0.00	0.024	12.3 pci/g			3681	1222.46	
TOTAL		0.012	0.151	0.983	0.068	0.012	0.196	0.00	0.00	0.00	0.00	0.024						
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0							

1	Background Radium	1.510	pci/g
2	Site Limit	2.510	pci/g
3	Cumulative total to Date	1.534	pci/g
4	% of Total Cumulative Limit	61.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See next page
Section Number	13	Township *(Number and Direction)*	T37N
Tillable Acres	282.35	Range *(Number and Direction)*	R8E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Lincolnway 1	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	ND	+ / -	0.50	Radium-228	ND	+ / -	0.50

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2024 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
9/6/25	192.35	.68	282.35	7.6	4.7

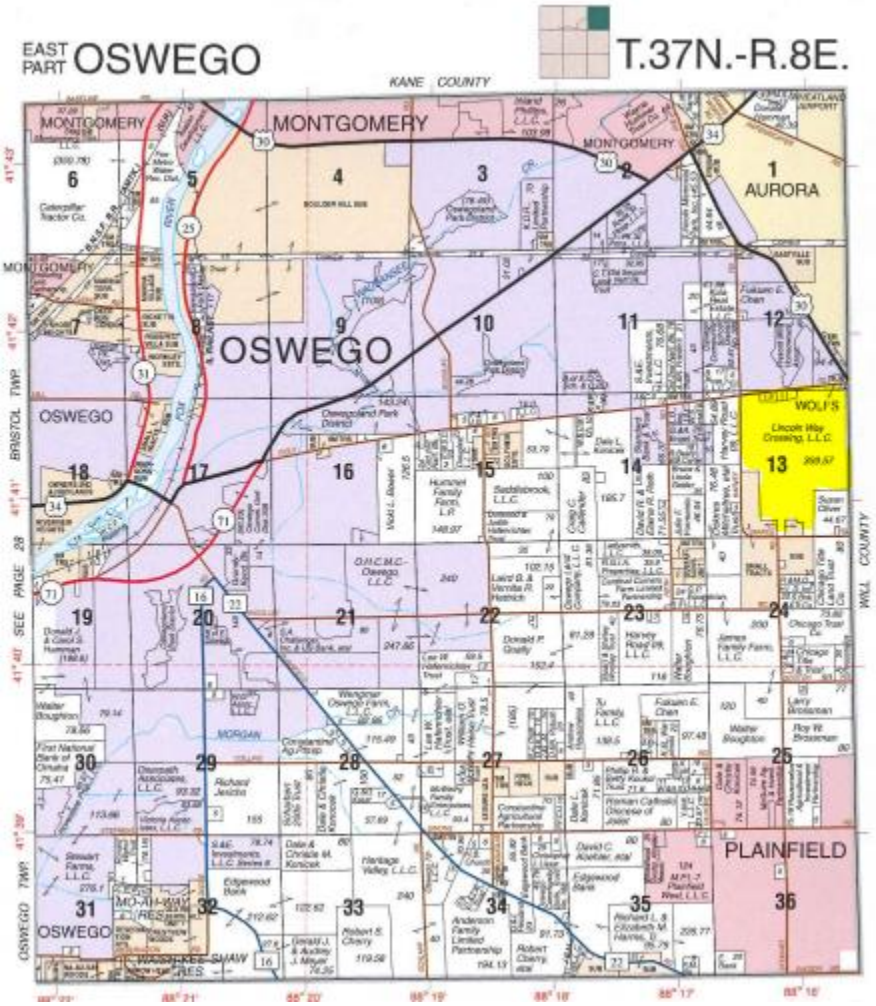
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: Mar 20, 2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13



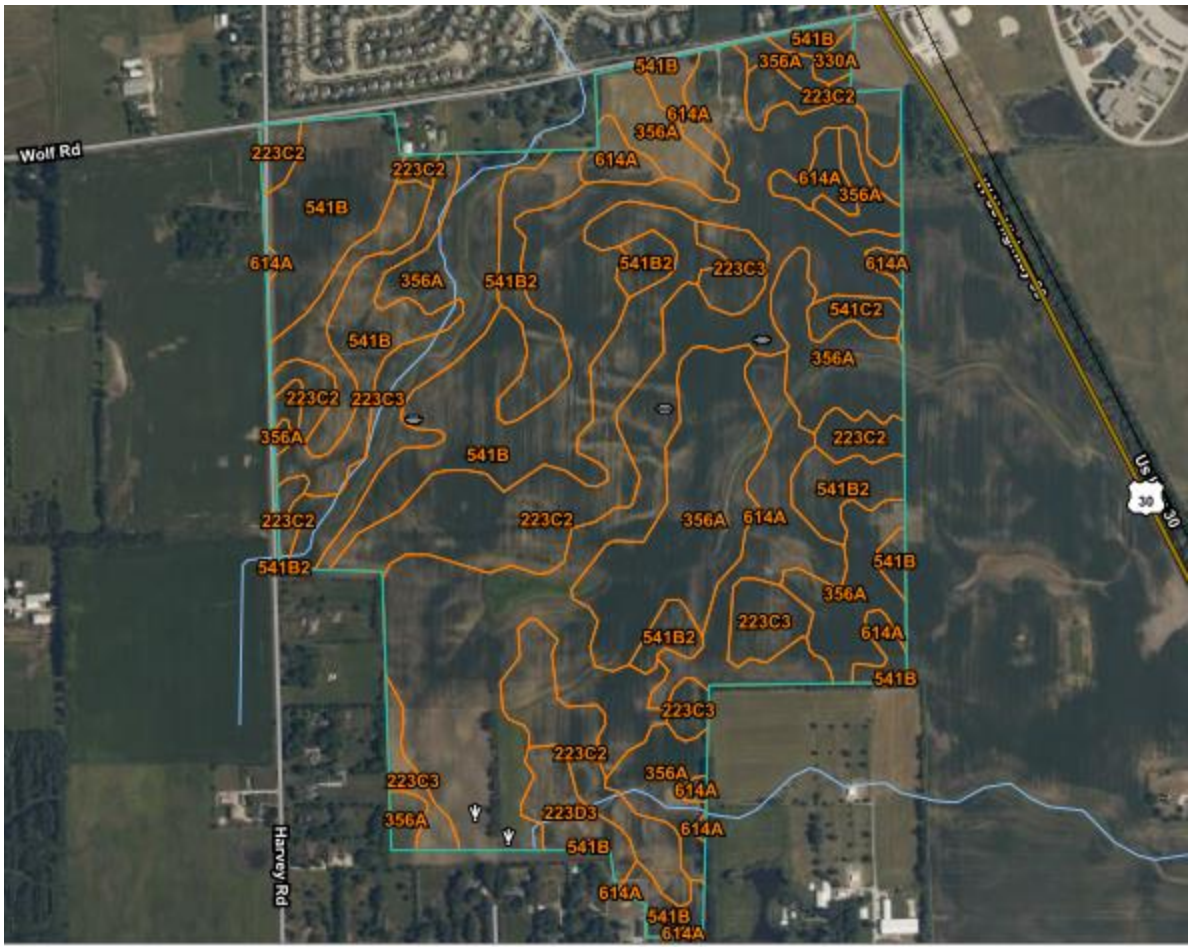
John Stewart

KE Lincolnway 1
282.35 Acres
Kendall County
Oswego Township
Section 13

223C2	Varna silt loam, 4 to 6 percent slopes, eroded	56.3	10.6% 0.06 to 0.20 in/hr
223C3	Varna silty clay loam, 4 to 6 percent slopes, severely eroded	23.2	4.4% 0.06 to 0.20 in/hr
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded	6.0	1.1% 0.06 to 0.20 in/hr
330A	Peotone silty clay loam, 0 to 2 percent slopes	1.9	0.4% 0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	92.0	17.3% 0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	147.1	27.7% 0.06 to 0.20 in/hr
541B2	Graymont silt loam, 2 to 5 percent slopes, eroded	19.8	3.7% 0.06 to 0.20 in/hr
541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	2.7	0.5% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	30.9	5.8% 0.06 to 0.20 in/hr
Subtotals for Soil Survey Area		379.9	71.6%

Collapse Will County, Illinois (IL197)
Will County, Illinois (IL197)

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
67A	Harpster silty clay loam, 0 to 2 percent slopes	3.5	0.7% 0.60 to 2.00 in/hr
146A	Elliott silt loam, 0 to 2 percent slopes	7.1	1.3% 0.06 to 0.20 in/hr
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	27.9	5.3%0.06 to 0.20 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	65.4	12.3%0.20 to 0.60 in/hr
541B	Graymont silt loam, 2 to 5 percent slopes	33.7	6.3% 0.06 to 0.20 in/hr
614A	Chenoa silty clay loam, 0 to 2 percent slopes	13.2	2.5%0.06 to 0.20 in/hr


Wolf Rd
Harvey Rd
US 30
541B
356A
330A
223C2
614A
541B2
223C3
541C2
223D3

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: April 22, 2021
Workorder: **2103S05**

Client Sample ID: **KE_WL Lincolnway**
Lab ID: 2103S05-001 **Date Received:** 03/31/2021 12:14 PM

Matrix: SOIL
Collection Date: 03/30/2021 9:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: EPA-903.0-Rev 0				Analyst: JH	
Radium-226	ND	0.50		pCi/g	1	04/19/2021 12:00 AM	73046
RADIUM-228		Method: EPA-904.0-Rev 0				Analyst: JH	
Radium-228	ND	0.50		pCi/g	1	04/14/2021 12:00 AM	72923

Created: 4/22/2021 11:47:12 AM

METAL LOADING RECORD

SITE NUMBER: KE Lincolnway 1
ACREAGE: 282.35
COUNTY: Kendall
TOWNSHIP: Oswego
SECTION: 13

FARMER: John Stewart
ADDRESS: 3870 N. Rt 71
Sheridan, IL 60551
PHONE #: 815-695-5667

Metal Loadings in Pounds per Acr

Source of biosolids

1 Lasma Cell 3 and 5
2 Romeoville
3 Aurora Lime
4 Joliet North
5 Downers Grove
6 DuPage
7 Lasma lagoon 28
8 Marathon
9 Lasma Lagoon 29
10 Marathon lagoon 25 cells 2,3,4
11 Lasma Lagoon 27
12 Village of East Dundee

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	5/1/2021	0.010	2.000	2.840	0.190	0.450	4.000	0.100	0.000	0.050	0.06					3117.67	851.12
3	5/1/2021	0.024	0.096	1.936	0.09	0.024	0.231	0	0	0	0	0.019	6.25 pci/g			4766.99	2246.7
2	6/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.005			568		100.3
4	6/1/2021	0	2.32	11.08	0.02	0	0.19	0.01	0	0.01	0.01	0.018		5009850			229.94
2	7/1/2021	0	0.29	0.16	0.01	0.01	0.4	0	0	0	0.01	0.010			784		138.45
5	Jun-22	0	0.1	0.02	0	0	0.05	0	0	0	0				308		30.49
6	Jun-22	0	0.04	0.03	0	0	0.05	0	0	0	0				75		10.63
7	Jun-22	0.02	2.65	2.89	0.27	0.47	4.86	0.02	0	0.07	0.1					6657.62	1298.24
3	Jun-22	0.004	0.017	0.459	0.016	0.004	0.041	0.000	0.000	0.000	0.000	0.003	3.57 pci/g			1113.60	532.19
8	Aug-22	0.020	2.750	3.560	0.280	0.600	5.490	0.070	0.000	0.070	0.090					3483.96	1132.29
9	May-23	0.000	0.450	0.490	0.050	0.080	0.880	0.010	0.000	0.010	0.020					852.08	176.38
10	May-23	0.010	1.950	2.740	0.170	0.380	3.300	0.010	0.000	0.040	0.050					2437.32	719.01
11	May-23	0.010	1.140	1.470	0.120	0.230	2.260	0.010	0.000	0.030	0.040					1972.52	504.97
6	Jun-23	0.000	0.080	0.050	0.000	0.000	0.100	0.000	0.000	0.000	0.000				125.00		15.71
1	Aug-23	0.000	0.530	0.770	0.050	0.110	1.000	0.000	0.000	0.010	0.020					443.56	139.28
7	Aug-23	0.010	1.930	1.780	0.180	0.260	3.620	0.040	0.000	0.040	0.090					2848.49	595.33
7	Oct-23	0.000	0.340	0.380	0.030	0.090	0.720	0.000	0.000	0.010	0.010					456.74	115.10
3	Oct-23	0.000	0.002	0.035	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.001	8.5 pci/g			134.36	44.27
7	Nov-23	0.020	2.490	2.750	0.240	0.620	5.260	0.020	0.000	0.060	0.100					3520.94	838.73
3	Nov-23	0.003	0.018	0.262	0.009	0.003	0.031	0.000	0.000	0.000	0.000	0.005				1004.58	336.13
7	Aug-24	0.010	1.020	1.240	0.090	0.210	2.130	0.030	0.000	0.030	0.030					1628.30	354.97
12	Aug-24	0.000	0.020	0.020	0.000	0.020	0.000	0.000	0.000	0.000	0.000				25.00		3.82
3	Sep-24	0.002	0.026	0.171	0.012	0.002	0.034	0.000	0.000	0.000	0.000	0.004	12.3 pci/g			557.87	192.35
7	Sep-24	0.010	2.180	2.650	0.190	0.440	4.550	0.060	0.000	0.060	0.070					3524.18	768.27
	TOTAL	0.153	22.730	37.943	2.030	4.010	39.600	0.380	0.000	0.490	0.710	0.065	pci/g				
	%of LIMIT	1.5	9.1	4.2	2	0.4	7.9	0.4	0	6.1	4.4						

1	Background Radium	1.000	pci/g
2	Site Limit	2.000	pci/g
3	Cumulative Total to Date	1.065	pci/g
4	% of Total Cumulative Limit	53.25	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 21, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 6

6.) Size of Area Where Lime is to be Used: 218 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

5/21/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 7, 2024

2.) Name of User: Tim Collin and Brian Moran

3.) Address of User: 604 E. 1st Street Hinsdale, IL 60521

4.) Phone Number of User: 630-263-1361

5.) Location Where Lime is to be Used: KE Collins 1

6.) Size of Area Where Lime is to be Used: 50 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

5-7-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 12-6-23

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: April 23, 2024

2.) Name of User: Dana Friestad

3.) Address of User: 9218 White willow Road Morris IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friestad 13

6.) Size of Area Where Lime is to be Used: 39 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Friestad 4-23-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: July 2, 2024

2.) Name of User: Steve Ruh

3.) Address of User: 45725 Swan Rd Big Rock, IL 60511

4.) Phone Number of User: 630-556-3470

5.) Location Where Lime is to be Used: KA Ruh 7,8 and 9

6.) Size of Area Where Lime is to be Used: 72 + 75 +27 acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

X _____ 7/2/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 12-6-23

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax 815.695.5770 Website: www.Stewartspreading.com

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Stewart 4

6.) Size of Area Where Lime is to be Used: 60 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : No

12.) Estimated Length of Time Lime is to be Stockpiled: N/A

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 1200 wet tons

Years Applied 2022 and 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: August 15, 2024

2.) Name of User: Claire Swenson

3.) Address of User: 13620 Lisbon Newark Il 60541

4.) Phone Number of User: 815-736-6163

5.) Location Where Lime is to be Used: KE Swenson 24

6.) Size of Area Where Lime is to be Used: 141 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Auora Lime

Amount Applied approx. 2700 wet tons

Years Applied 2020 and 2022

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Claire Swanson 8-15-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: May 21, 2024

2.) Name of User: Frank Santoro

3.) Address of User: 2080 Simons Rd Oswego, IL 60543

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Santoro 320

6.) Size of Area Where Lime is to be Used: 309 acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

5/21/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: March 17, 2024

2.) Name of User: John Stewart

3.) Address of User: 3870 N. Rt. 71 Sheridan, IL 60551

4.) Phone Number of User: 815-695-5667

5.) Location Where Lime is to be Used: KE Lincolnway 1

6.) Size of Area Where Lime is to be Used: 282.35 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora lime

Amount Applied approx. 7,000 wet tons

Years Applied 2021 and 2022 and 2023

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 3-17-24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER — DATE

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: _____ **IEPA ID #** _____

◯ CWS ◯ POTW ◯ Applicator ◯ Other _____

2. Site Description and Location

County Name		Tax Parcel ID Number *(PIN)**	
Section Number		Township *(Number and Direction)*	
Tillable Acres		Range *(Number and Direction)*	
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◯ No ◯
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226		+ / -		Radium-228		+ / -	

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)

5. I certify the information provided above is accurate,

Signature: _____ Billie M Marks _____ Date: _____ Title: _____

Printed Name of Contact Person: _____ Phone Number: _____

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

City of Aurora - Lime

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Oct-24**

Biosolids Field Record

KE Gene Hamman 95

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/16/2024	10/16/2024	City of Aurora - Lime	1008.69	36.1	364.14
Total			1008.69		364.14

Biosolids Field Record

KE Dana Friesad 3

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/16/2024	10/16/2024	City of Aurora - Lime	417.35	36.1	150.66
Total			417.35		150.66

Biosolids Field Record

KE Jim Brummel 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	136.25	41.77	56.91
Total			136.25		56.91

Biosolids Field Record

KE Jim Brummel 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	182.16	41.77	76.09
Total			182.16		76.09

Biosolids Field Record

KE Gerry Brummel 11

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
10/17/2024	10/17/2024	City of Aurora - Lime	63.56	41.77	26.55
Total			63.56		26.55

PLAT MAP

Farmer___Gene Hamman_____

Address_14125 State Route 71_____

City, State, Zip__Yorkville, IL 60560___

Phone_____

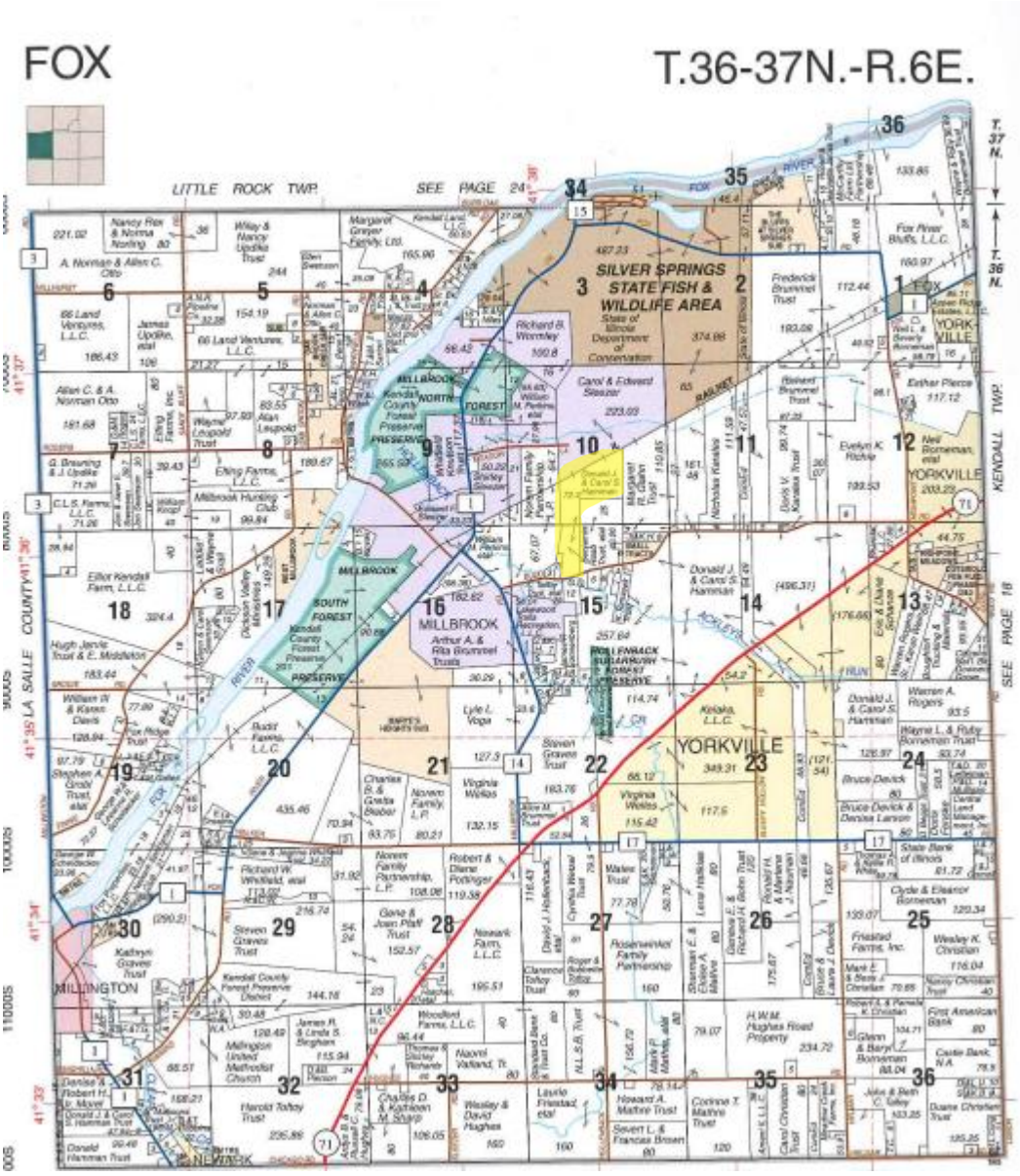
Field Code__Hamman 95_____

Acres ___93_____

County_ Kendall_____

Township_____Fox_____

Section __10,15_____



PLAT MAP

Farmer___Gene Hamman_____ Field Code__Hamman 95_____

Address_14125 State Rt. 71_____ Acres ___93_____

City, State, Zip__Yorkville, IL 60560____ County_ Kendall_____

Phone_____ Township_____Fox_____

Section __10,15_____

148A	Proctor silt loam, 0 to 2 percent slopes	54.7	58.9%	0.60 to 2.00 in/hr
148B	Proctor silt loam, 2 to 5 percent slopes	8.9	9.5%	0.60 to 2.00 in/hr
149A	Brenton silt loam, 0 to 2 percent slopes	15.4	16.5%	0.60 to 2.00 in/hr
152A	Drummer silty clay loam, 0 to 2 percent slopes	7.4	7.9%	0.60 to 2.00 in/hr
318D2	Lorenzo loam, 6 to 12 percent slopes, eroded	0.1	0.1%	0.60 to 2.00 in/hr
325A	Dresden silt loam, 0 to 2 percent slopes	6.4	6.9%	0.60 to 2.00 in/hr



RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, January 22, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Gene Hamman 95 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250015 is in Table 1. Stewart Spreading identified the sample as Gene Hamman 95 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250015
	Gene Hamman 95 (Soil)
Ac-228	< 0.15
Ra-228[1]	< 0.15
Pb-214	< 0.06^
Bi-214	0.76
Ra-226[2]	0.76
Total radium[3]	< 0.91

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the concentrations of Ra-226 and Ra-228. The successful use of surrogates depends upon the radionuclides in each series being in equilibrium.

METAL LOADING RECORD

SITE NUMBER:	Hamman 95	COUNTY:	Kendall		Source of biosolids
ACREAGE:	93	TOWNSHIP:	Fox	1	Aurora Lime
		SECTION:	10 and 15	2	
FARMER:	Gene Hamman				
ADDRESS:	14125 State Route 71 Yorkville, IL 60560				
PHONE #:					

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.012	0.151	0.983	0.068	0.012	0.196	0	0	0	0	0.024	12.3 pci/g
TOTAL		0.01	0.15	0.98	0.07	0.01	0.2	0	0	0	0	0.024	12.3 pci/g
%of LIMIT		0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	0.910	pci/g
Site Limit	1.910	pci/g
Cumulative Total to Date	0.934	pci/g
% of Total Cumulative Limit	48.90	%

1 Background Radium determined from soil test results

2 Radium concentration in soil can not exceed this limit

3 Cumulative total includes background and land application

4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	08-10-200-003
Section Number	10	Township *(Number and Direction)*	T35N
Tillable Acres	38	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friestad 3

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.95	+ / -	0	Radium-228	0.15	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE	PRINTED NAME	DATE

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/16/2025	150.66	3.9	38	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/24/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1366

PLAT MAP

Farmer___Dana Friestad_____

Address__9218 Whitewillow Road ____

City, State, Zip____ Morris, IL 60450__ _

Phone_____

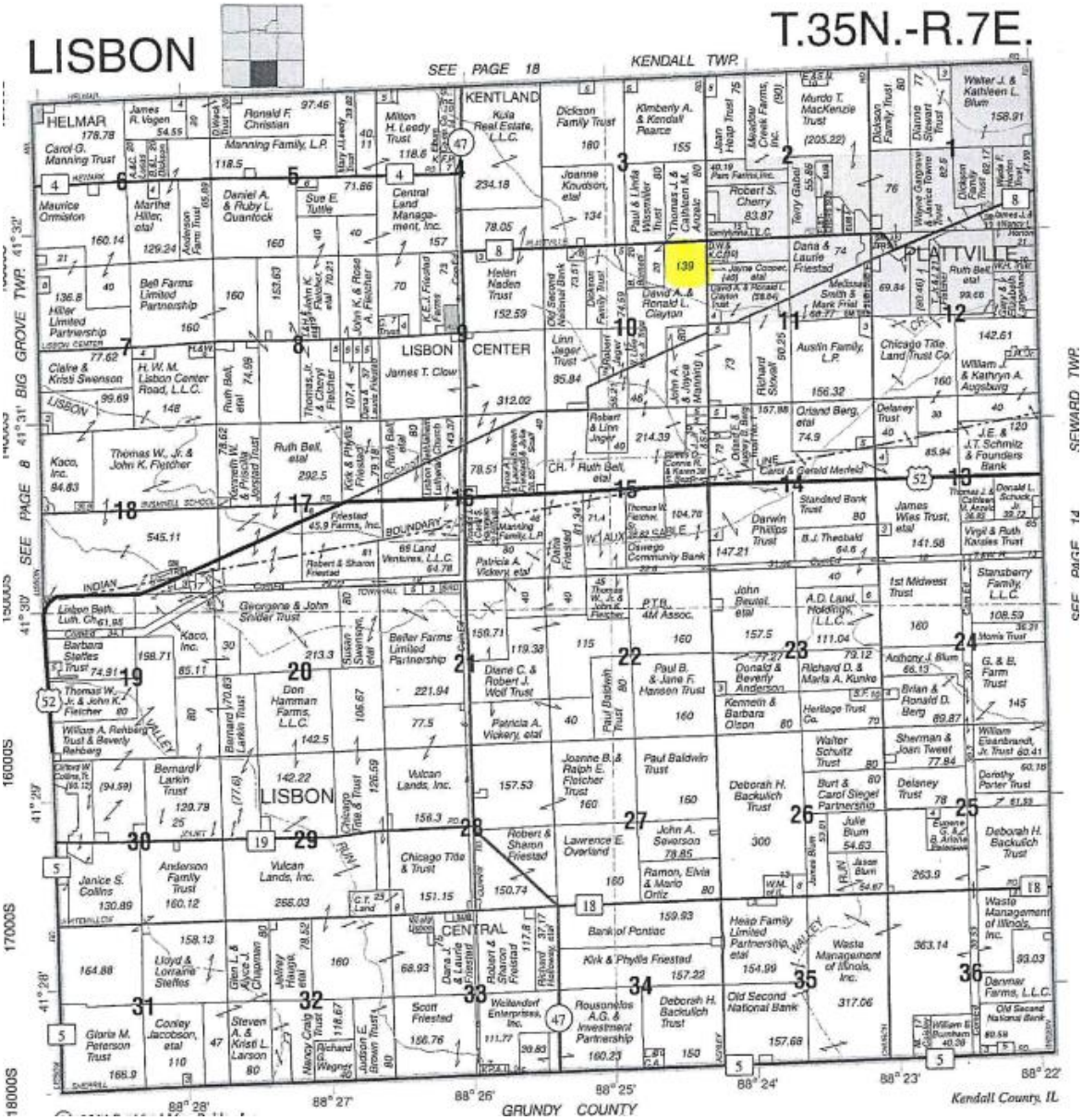
Field Code__KE Dana Friestad 3_

Acres _____38_____

County_____Kendall_____

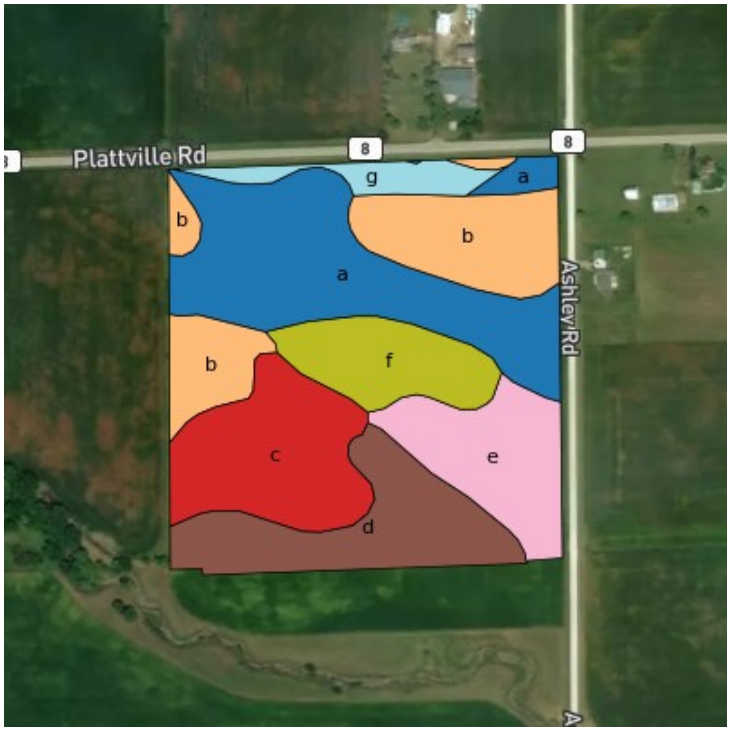
Township_____Lisbon_____

Section _____10_____



LRM1367

Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 3



Map Details

State: IL

County: Kendall

QQQ:

Location: 10-35N-7E

Township: Lisbon township

Acres: 38.3

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 59A	Lisbon silt loam, 0 to 2 percent slopes	10.1	26.3	241	71	4.00	0	0.77
(b) 541A	Graymont silt loam, 0 to 2 percent slopes	6.8	17.7	208	60	4.00	0	0.73
(c) 541B	Graymont silt loam, 2 to 5 percent slopes	6.0	15.8	202	59	4.00	0	0.81
(d) 152A	Drummer silty clay loam, 0 to 2 percent slopes	5.7	15.0	221	67	5.50	0	0.83
(e) 442A	Mundelein silt loam, 0 to 2 percent slopes	4.6	12.0	214	64	4.00	0	0.85
(f) 148B	Proctor silt loam, 2 to 5 percent slopes	3.6	9.4	208	60	3.50	0	0.88
(g) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	1.5	3.9	221	67	5.50	0	0.88
	Weighted Average			**219**	**65**	**4.24**	**0.0**	**0.80**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, January 22, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: Dana Friestad 3 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250014 is in Table 1. Stewart Spreading identified the sample as Dana Friestad 3 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250014
	Dana Friestad 3 (Soil)
Ac-228	< 0.15
Ra-228[1]	< 0.15
Pb-214	< 0.07^
Bi-214	0.95
Ra-226[2]	0.95
Total radium[3]	< 1.10

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the concentrations of Ra-226 and Ra-228. The successful use of surrogates depends upon the radionuclides in each series being in equilibrium.

METAL LOADING RECORD

SITE NUMBER: Dana Friestad 3
ACREAGE: 38
COUNTY: Kendall
TOWNSHIP: Lisbon
SECTION: 10

FARMER: Dana Friestad
ADDRESS: 9218 Whitewillow Road
Morris, IL 60450

PHONE #:

Source of biosolids
1 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.012	0.151	0.983	0.068	0.012	0.196	0	0	0	0	0.024	12.3 pci/g
	TOTAL	0.01	0.15	0.98	0.07	0.01	0.2	0	0	0	0	0.024	12.3 pci/g
	%of LIMIT	0.1	0.1	0.1	0.1	0	0	0	0	0	0		

Background Radium	1.100	pci/g
Site Limit	2.100	pci/g
Cumulative Total to Date	1.124	pci/g
% of Total Cumulative Limit	53.52	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ◉ Applicator ○ Other

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-07-428-001,05-07-426-003
Section Number	7	Township *(Number and Direction)*	T36-37N
Tillable Acres	25	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Jim Brummel 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.71	+ / -	0	Radium-228	0.70	+ / -	0

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/17/2025	56.91	2.3	25	7.6	4.7

5. I certify the information provided above is accurate,

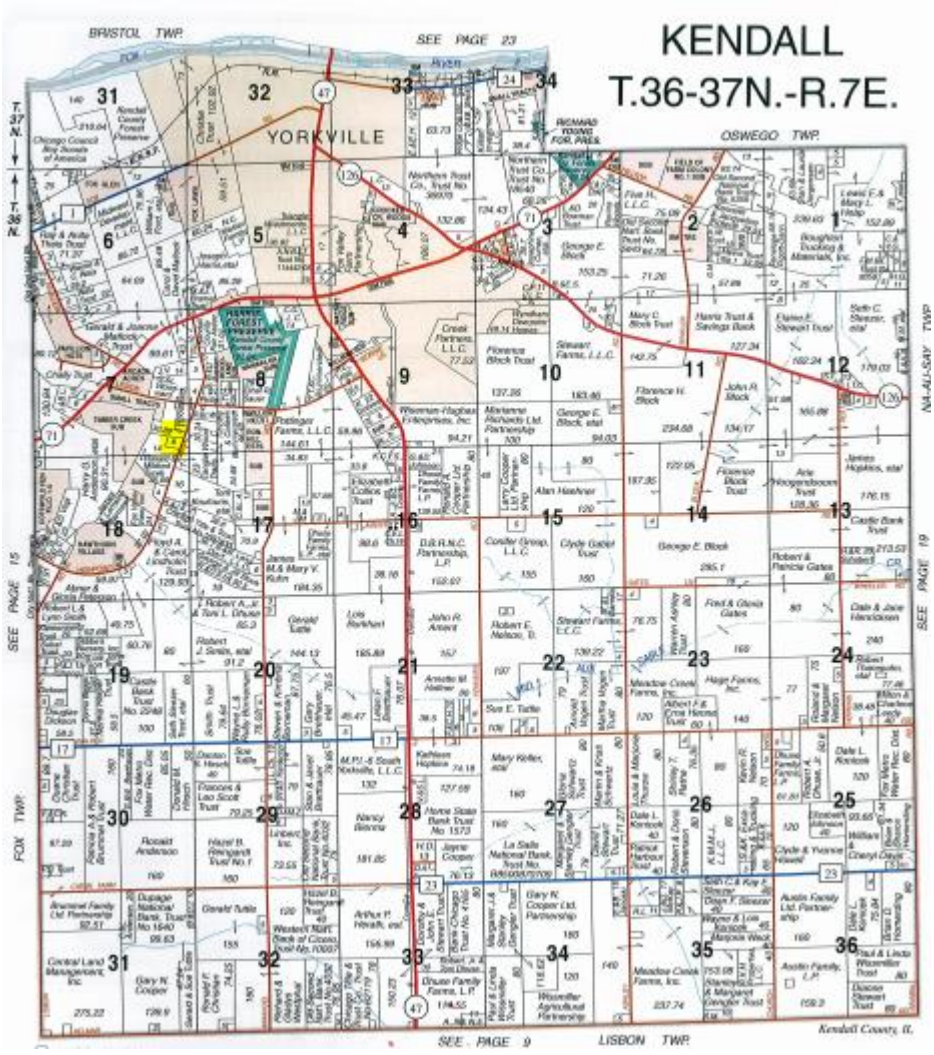
Signature: Billie M Marko Date: 4/24/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1371

Jim Brummel

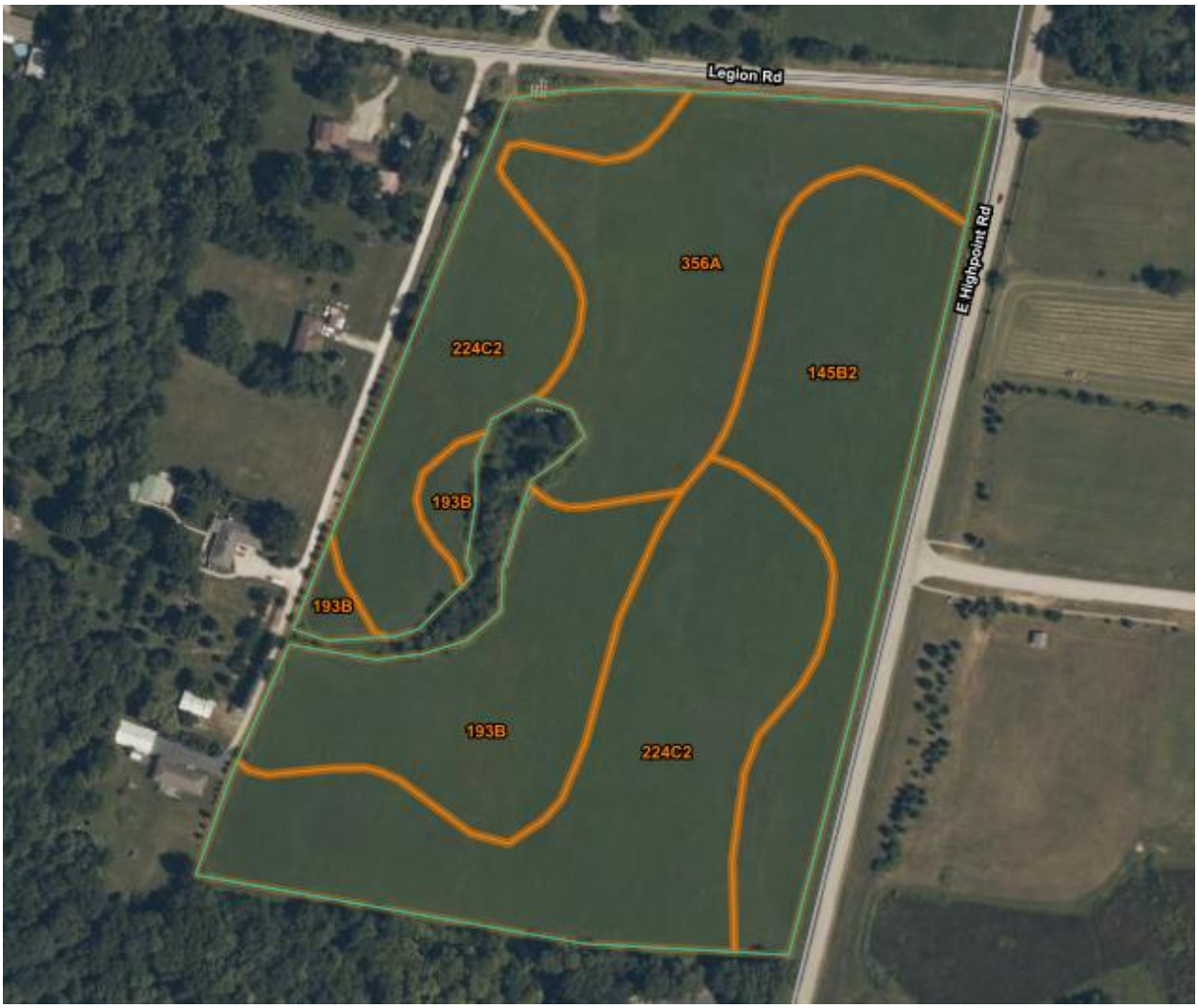
KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7



Jim Brummel

KE Jim Brummel 2
25 Acres
Kendall County
Kendall Township
Section 7

145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	5.1	20.0%	0.06 to 0.60 in/hr
193B	Mayville silt loam, 2 to 5 percent slopes	4.5	17.7%	0.06 to 0.60 in/hr
224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	10.6	41.4%	0.06 to 0.60 in/hr
356A	Elpaso silty clay loam, 0 to 2 percent slopes	5.4	21.0%	0.20 to 0.60 in/hr



Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Stewart Spreading Inc.
Project Name: Radium Backgrounds

Report Date: March 04, 2021
Workorder: **2101A73**

Client Sample ID: **KE Jim Brummel 2**
Lab ID: 2101A73-004 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:08 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.71	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.70	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Client Sample ID: **KE Swenson 24**
Lab ID: 2101A73-005 **Date Received:** 01/18/2021 1:00 PM

Matrix: SOIL
Collection Date: 10/22/2020 11:47 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
RADIUM-226		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-226	0.80	0		pCi/g	1	03/02/2021 12:45 PM	R130381
RADIUM-228		Method: ASTM-C1402-98-Rev 1998				Analyst: kjs	
Radium-228	0.18	0		pCi/g	1	03/02/2021 12:45 PM	R130381

Created: 3/4/2021 5:55:33 PM

METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 2
ACREAGE: 25
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 7

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, IL 60560
PHONE #: 630-675-7589

Source of biosolids
1 Aurora Lime
2 Lasma Lagoon 28
3 Marathon lag 25 cells 2,3,4
4 DuPage

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	December 20	0.011	0.043	0.87	0.04	0.011	0.104	0	0	0	0	0.009				189.35	68.02
2	April 2021	0.03	6.15	7.17	0.69	1.12	10.51	0.19	0	0.14	0.22					891.71	180.13
2	June 2022	0.04	4.46	4.87	0.45	0.8	8.18	0.04	0	0.12	0.17					776.73	151.46
3	May-23	0.06	9.76	13.75	0.84	1.88	16.55	0.06	0.01	0.2	0.26					847.84	250.11
4	May-23	0	0.18	0.09	0.01	0.01	0.21	0	0	0	0					25	3.14
1	March.24	0.009	0.056	0.825	0.029	0.009	0.097	0	0	0	0	0.016	8.5 pci/g			260.91	93.72
2	May.24	0.05	4.35	5.31	0.44	0.68	8.83	0.11	0.01	0.11	0.16					850.7	145.47
1	Oct.24	0.007	0.089	0.58	0.04	0.007	0.115	0	0	0	0	0.014	12.3 pci/g			136.25	56.91
	Cumulative Total	0.21	25.09	33.47	2.54	4.52	44.6	0.4	0.02	0.57	0.81	0.039					
	%of LIMIT	2.1	10	3.7	2.5	0.5	8.9	0.4	0	7.1	5						

1	Background Radium	1.410	pci/g
2	Site Limit	2.410	pci/g
3	Cumulative total to Date	1.449	pci/g
4	% of Total Cumulative Limit	60.12	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	05-30-100-002,05-30-100-011
Section Number	29	Township *(Number and Direction)*	T36-37N
Tillable Acres	176	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Jim Brummel 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.08	+ / -	0.17	Radium-228	0.39	+ / -	0.24

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

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I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/17/2025	76.09	.43	176	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/24/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

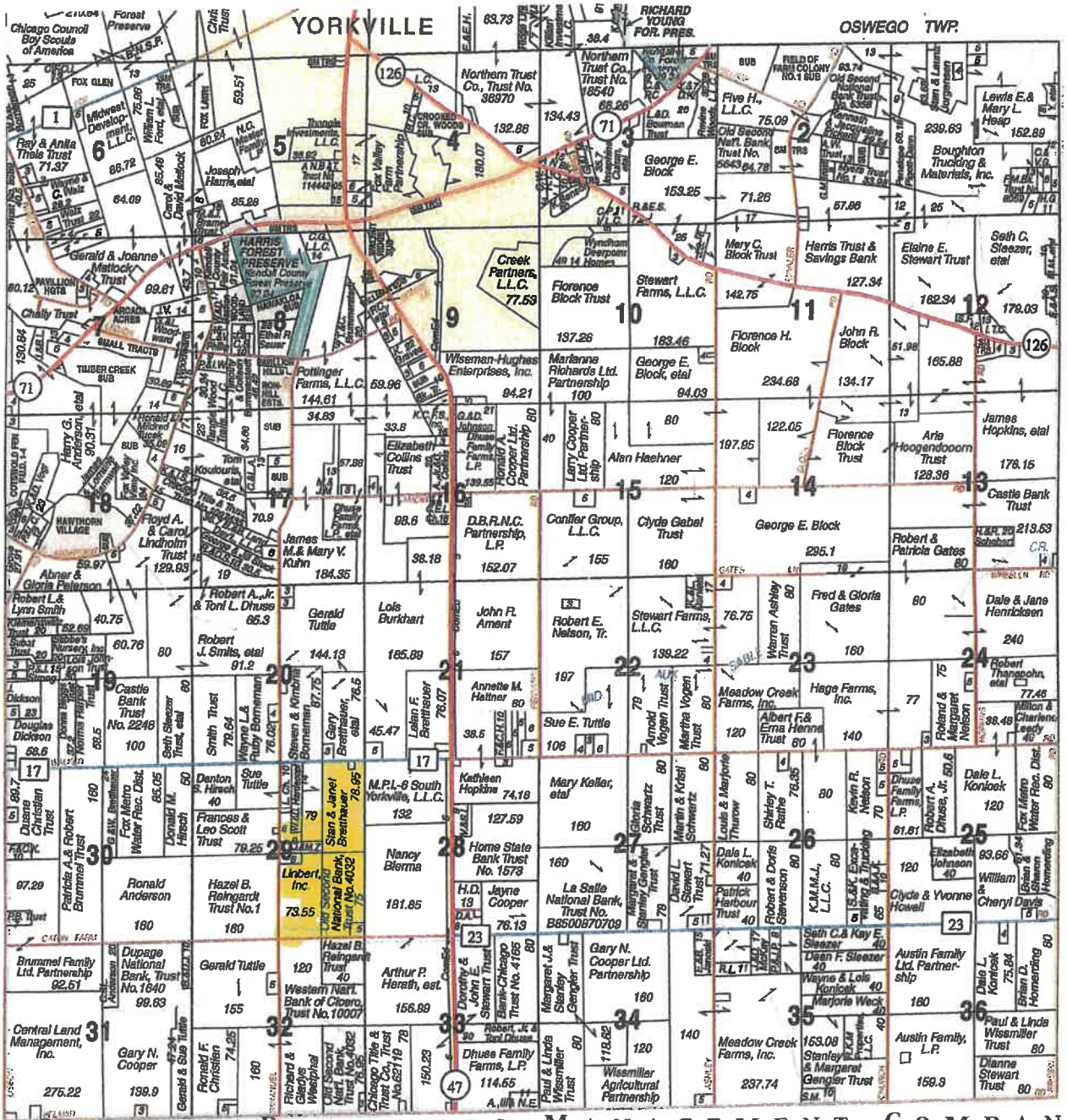
LRM1376

Stewart SPREADING

Jim Brummel

KE Jim Brummel 1
Kendall County
Kendall Township
17½ Acres

KENDALL
T.36-37N.-R.7E.



A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. Route 71 • Sheridan, IL 60551 • Office 815-695-5667 • Fax 815-695-5770

Spirit Family Farms : Brummel - Jim : KE Jim Brummel 1



Map Details

State: IL

County: Kendall

QQQ:

Location: 30-36N-7E

Township: Kendall township

Acres: 177.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 198A	Elburn silt loam, 0 to 2 percent slopes	66.8	37.6	225	65	4.50	0	0.91
(b) 148B	Proctor silt loam, 2 to 5 percent slopes	48.2	27.1	208	60	3.50	0	0.88
(c) 152A	Drummer silty clay loam, 0 to 2 percent slopes	45.4	25.5	221	67	5.50	0	0.83
(d) 541B	Graymont silt loam, 2 to 5 percent slopes	10.2	5.7	202	59	4.00	0	0.81
(e) 148A	Proctor silt loam, 0 to 2 percent slopes	5.2	2.9	210	61	3.50	0	0.90
(f) 330A	Peotone silty clay loam, 0 to 2 percent slopes	1.2	0.7	184	56	6.20	0	0.63
(g) 541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.7	0.4	194	56	3.00	0	0.70
(h) 442A	Mundelein silt loam, 0 to 2 percent slopes	0.3	0.2	214	64	4.00	0	0.85
(j) 443B	Barrington silt loam, 2 to 4 percent slopes	0.0	0.0	225	67	4.00	0	0.84
	Weighted Average			**217**	**64**	**4.43**	**0.0**	**0.87**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

September 24, 2013

Client: Stewart Spreading, Inc
Address: 3870 N. Route 71
Sheridan, IL 60551

Received: 9/5/2013
Project #: N/A

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
KA Gould 8	1314941-01	30-Aug-13	Radium-226	0.37 +/- 0.22	pci/g	S	9315	1	0.4	18-Sep-13	CM
KA Gould 8	1314941-01	30-Aug-13	Radium-228	3.15 +/- 0.69	pci/g	S	9320	1	0.4	17-Sep-13	CM
KE Jim Brummel 1	1314941-02	30-Aug-13	Radium-226	0.08 +/- 0.17	pci/g	S	9315	1	0.4	18-Sep-13	CM
KE Jim Brummel 1	1314941-02	30-Aug-13	Radium-228	0.39 +/- 0.24	pci/g	S	9320	1	0.4	17-Sep-13	CM

"Analytical Integrity" · EPA Certified · NELAP Certified
3310 Win Street · Cuyahoga Falls, Ohio 44223 · Phone: 330-253-8211 · Fax: 330-253-4489
Web Site: www.settek.com

METAL LOADING RECORD

SITE NUMBER: KE Jim Brummel 1
ACREAGE: 176
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 29

FARMER: Jim Brummel
ADDRESS: 11526 Walker Rd
Yorkville, Il 60560
PHONE #: 630-675-7589

Metal Loadings in Pounds per Ac

Source of biosolids

1 Aurora Lime
2 Lasma lagoon 28
3 Lasma Lagoon 24 and cell 5
4 Lasma Cells 3, 4 and 5
5 Lasma cell 2 SDP
6 Sandwich
7a Naperville-storage pile 1
7b Naperville-storage pile 2
7c Naperville-storage pile 3
8 Plainfield
9 Lasma Lagoon 27

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons	
1	10/18/2013	0.005	0.045	0.771	0.021	0.013	0.402					0.015				3023.77	977.64	9 pci/g
2	20-May	0.02	2.95	4.22	0.31	0.66	5.96	0.08	0	0.03	0.08					2486.83	601.81	
2	20-Jun	0.04	5.2	7.45	0.54	1.16	10.52	0.15	0.01	0.06	0.14					4413.98	1068.18	
3	20-Oct	0.05	5.39	6.03	0.55	1.19	10.51	0.18	0.01	0.06	0.17					5195.25	1735.21	
2	20-Oct	0	0.65	0.78	0.06	0.15	1.24	0.02	0	0.01	0.02					763.14	212.92	
2	22-Jun	0	0.24	0.26	0.02	0.04	0.44	0	0	0.01	0.01					307.6	59.98	
4	22-Jun	0.05	6.87	7.51	0.62	1.33	12.8	0.16	0.01	0.16	0.19					4822.45	1422.61	
5	22-Jun	0.01	0.9	1.05	0.09	0.21	1.75	0.02	0	0.02	0.02					789.09	197.27	
1	22-Jun	0.010	0.048	1.264	0.044	0.010	0.114	0.000	0.000	0.000	0.000	0.007	3.57 pci/g			1626.09	712.73	
6	22-Dec	0.005	0.420	0.440	0.030	0.020	0.620	0.010	0.000	0.010	0.010	0.010			532.00		76.78	
7a	22-Dec	0.000	0.270	0.110	0.010	0.000	0.340	0.000	0.000	0.000	0.000				439.00		64.85	
7b	22-Dec	0.000	1.410	0.700	0.020	0.040	1.820	0.010	0.000	0.020	0.010				1771.00		324.77	
7c	22-Dec	0.000	2.210	1.090	0.070	0.050	2.840	0.010	0.000	0.020	0.030				2497.00		432.47	
8	22-Dec	0.008	0.800	0.400	0.060	0.010	1.120	0.020	0.000	0.020	0.020				2617.00		284.17	
2	24-Oct	0.010	2.320	2.820	0.210	0.470	4.840	0.060	0.000	0.060	0.080					1831.09	399.18	
9	24-Oct	0.010	2.190	2.470	0.200	0.460	4.740	0.050	0.000	0.050	0.080					2360.72	474.50	
1	24-Oct	0.001	0.017	0.108	0.007	0.001	0.022	0.000	0.000	0.000	0.000	0.003	12.3 pci/g			182.16	76.09	
	TOTAL	0.219	31.930	37.473	2.862	5.814	60.078	0.770	0.030	0.530	0.860	0.035	pci/g					
	%of LIMIT	2.2	12.8	4.2	2.9	0.6	12	0.8	0	6.6	5.4							

1	Background Radium	0.470	pci/g
2	Site Limit	1.470	pci/g
3	Cumulative Total to Date	0.505	pci/g
4	% of Total Cumulative Limit	34.35	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ◉ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	04-13-300-003
Section Number	73	Township *(Number and Direction)*	T36-37N
Tillable Acres	71	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Gerry Brummel 11

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	.80	+ / -	0	Radium-228	1.43	+ / -	0.

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
10/17/2025	26.55	.37	71	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/24/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1381

Gerry Brummel

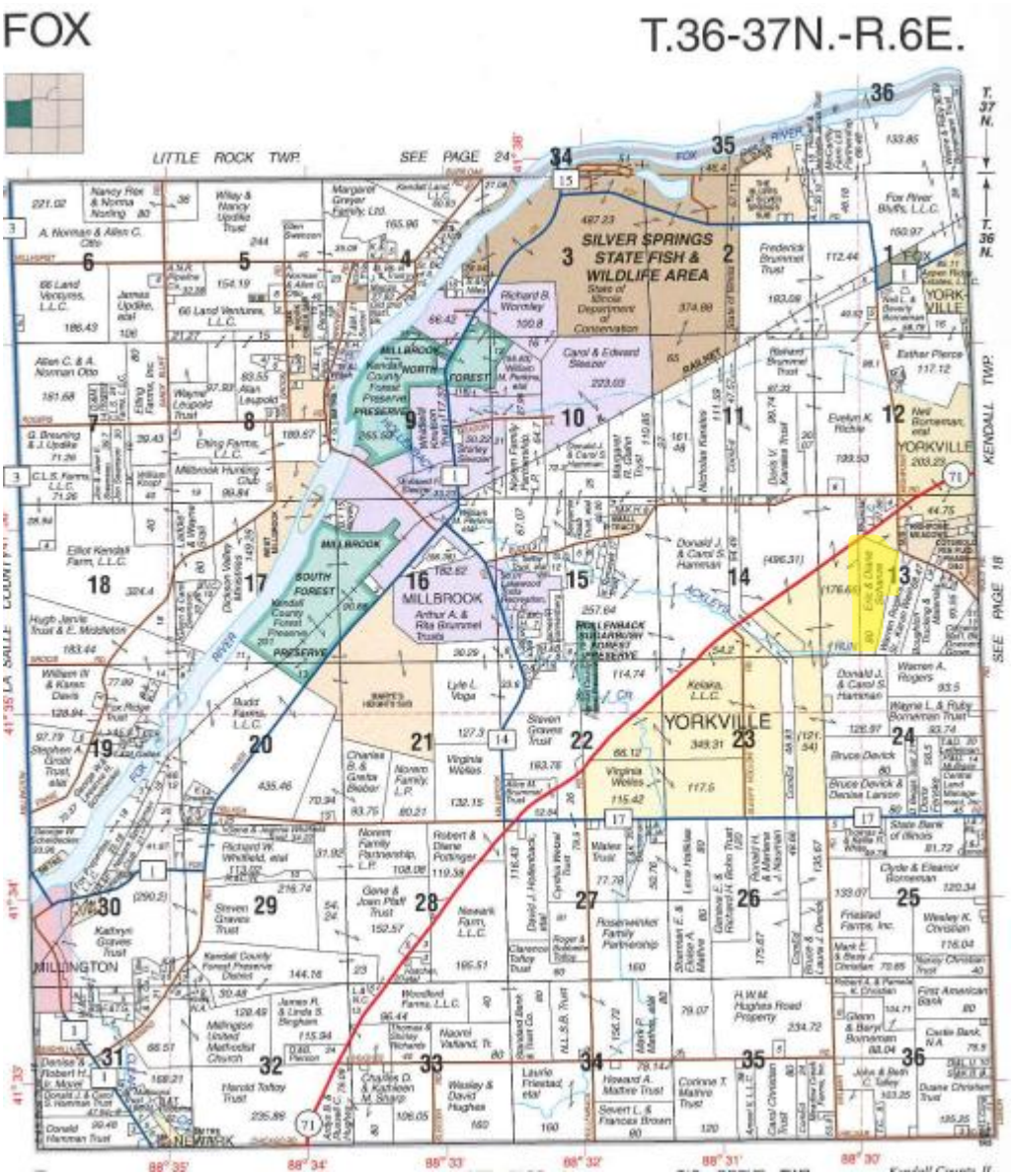
KE Gerry Brummel 11

71 acres

Kendall County

Fox Township

Section 13



Spirit Family Farms : Brummel Gerry Farms : KE G Brummel 11



Map Details

State: IL

County: Kendall

QQQ:

Location: 13-36N-6E

Township: Fox township

Acres: 71.5

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 541B	Graymont silt loam, 2 to 5 percent slopes	25.3	35.3	202	59	4.00	0	0.81
(b) 60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	23.1	32.4	171	53	2.00	0	0.53
(c) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	15.0	21.0	221	67	5.50	0	0.88
(d) 330A	Peotone silty clay loam, 0 to 2 percent slopes	8.1	11.4	184	56	6.20	0	0.63
	Weighted Average			**194**	**58**	**3.92**	**0.0**	**0.71**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, January 22, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE G Brummel 11 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250016 is in Table 1. Stewart Spreading identified the sample as KE G Brummel 11 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250016
	KE G Brummel 11 (Soil)
Ac-228	1.43
Ra-228[1]	1.43
Pb-214	< 0.06^
Bi-214	0.80
Ra-226[2]	0.80
Total radium[3]	2.23

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the concentration of its surrogate, Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228 and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the concentrations of Ra-226 and Ra-228. The successful use of surrogates depends upon the radionuclides in each series being in equilibrium.

METAL LOADING RECORD

SITE NUMBER: 11
ACREAGE: 71
COUNTY: Kendall
TOWNSHIP: Fox
SECTION: 13

FARMER: Gerry Brummel
ADDRESS: 13205 Church Road
Minooka, IL 60447
PHONE #: 815-475-4505

Source of biosolids
1 LASMA Lagoon 27
2 LASMA Lagoon 28
3 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Oct.24	0.02	3.29	3.71	0.3	0.69	7.12	0.08	0	0.08	0.11		
2	Oct.24	0.01	2.61	3.17	0.23	0.53	5.45	0.07	0	0.07	0.09		
3	Oct.24	0.001	0.014	0.093	0.006	0.001	0.019	0	0	0	0	0.002	12.3 pci/g
TOTAL		0.03	5.91	6.97	0.54	1.22	12.59	0.15	0	0.15	0.2	0.002	pci/g
%of LIMIT		0.3	2.4	0.8	0.5	0.1	2.5	0.2	0	1.9	1.2		

Background Radium	2.230	pci/g
Site Limit	3.000	pci/g
Cumulative Total to Date	2.232	pci/g
% of Total Cumulative Limit	74.40	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: September 16, 2024

2.) Name of User: Gene Hamman

3.) Address of User: 14125 State Route 71 Yorkville IL 60560

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Gene Hamman 95

6.) Size of Area Where Lime is to be Used: 93 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids/Lime Farmer-Landowner Notification Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("Lime or Biosolids") applied to your field(s) for agricultural fertilizer nutrient purposes by:

STEWART SPREADING INC.

Lime or Biosolids may contain a small amount of naturally occurring radium 226 and 228 that may result in a minor elevation in radium concentration in applied soils above the natural background levels. Radium is naturally occurring in the environment and is slightly concentrated in Lime and/or Biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications of Organic Biosolids. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium Biosolids/Lime can be used thereafter.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my farm field.

Gene Hamman 9-16-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 12-6-23

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friestad

3.) Address of User: 9218 Whitewillow Road Morris, IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friestad 3

6.) Size of Area Where Lime is to be Used: 38 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Freistad 6-10-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 9/17/24

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: KE Jim Brummel 2

6.) Size of Area Where Lime is to be Used: 25 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator Aurora Lime

Amount Applied approx. 450 wet tons

Years Applied 2020 and 2024

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: 9/17/24

2.) Name of User: Jim Brummel

3.) Address of User: 11526 Walker Rd Yorkville, IL 60560-9556

4.) Phone Number of User: 630-675-7589

5.) Location Where Lime is to be Used: Kendall County, Kendall Township, Section 30 KE Jim Brummel 1

6.) Size of Area Where Lime is to be Used: 176 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Farmland

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora Lime
Amount Applied 1600 wet tons
Years Applied 2022

SPREADING

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X 9/17/24

AUTHORIZED SIGNATURE OF LANDOWNER OR AGENT OF OWNER DATE

WATER TREATMENT PLANT LIME RESIDUALS USER INFORMATION SHEET

1.) Date: 1/23/24

2.) Name of User: Gerry Brummel

3.) Address of User: 13205 Church Road. Minooka, IL 60447

4.) Phone Number of User: 815-475-4505

5.) Location Where Sludge is to be Used: KE Gerry Brummel 11

6.) Size of Area Where Lime Residuals are to be Used: 71 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 200 Ft.

(c) Well > 200 Ft. (d) Other Water Supply (Describe) None observed

8.) Amount of Lime Residuals Obtained: Per Agronomic rates/pH

9.) Describe Uses of Lime Residuals (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)

Agriculture pH Soil Conditioner and Calcium Supplement

10.) Manner in Which Lime Residuals are to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: various

11.) Will Lime Residuals be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime Residuals are to be Stockpiled: 60 days or less

13.) Type and expected yield of crops to be grown on Lime Residuals amended land:

Corn	200	bu/A	grass/hay		T/A
Soybeans	60	bu/A	CRP		
Wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying Lime Residuals is: Silty Clay Loam; < 6.5

15.) Limitations from Site Characteristics: None Observed,

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X Gerald A Brummel 1/23/24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kane	Tax Parcel ID Number *(PIN)**	10-12-100-007
Section Number	12	Township *(Number and Direction)*	T39N
Tillable Acres	64.75	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KA Dale Schramer 2	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.554	+ / -	0.150	Radium-228	0.450	+ / -	0.170

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
12/6/24	223.96	3.46	64.75	7.6	4.7

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/28/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

LRM1395

Project: **City of Aurora - Lime**

IEPA Generator Number: **2023-SC-68367**

Reporting Period: **Dec-24**

Biosolids Field Record

KA Dale Schramer 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/6/2024	12/6/2024	City of Aurora - Lime	642.63	34.85	223.96
Total			642.63		223.96

Biosolids Field Record

KE Dana Friestad 7

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/6/2024	12/7/2024	City of Aurora - Lime	173.30	34.85	60.40
12/7/2024	12/7/2024	City of Aurora - Lime	475.80	34.85	165.82
12/9/2024	12/9/2024	City of Aurora - Lime	516.32	35.67	184.17
Total			1165.42		410.38

Biosolids Field Record

KE Dana Friestad 2

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons
12/10/2024	12/10/2024	City of Aurora - Lime	1062.95	30.76	326.96
Total			1062.95		326.96

Biosolids Field Record

KE Dana Friestad 1

Date Hauled	Date Applied	Source	Wet Tons	% Solids	Dry Tons

12/9/2024	12/10/2024	City of Aurora - Lime	723.26	35.67	257.99
12/10/2024	12/11/2024	City of Aurora - Lime	130.37	30.76	40.10
Total			853.63		298.09

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: AURORA, CITY OF
Project ID: PO# 302992, Yearly Sludge Sample
Sample ID: Yearly Sludge Sample
Sample No: 24-6420-001

Date Collected: 07/22/24
Time Collected: 8:10
Date Received: 07/22/24
Date Reported: 09/27/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sulfur by ICP **Method: 6010B**				
Analysis Date: 08/01/24				
Analyzed By: TEKLAB				
Sulfur	1,040	5.0	mg/kg	N S
Cyanide, Total **Method: 4500CN,E 2016**				
Analysis Date: 07/25/24				
Analyzed By: AAS				
Cyanide, Total	1.42	0.10	mg/kg	N
Radium 226 & 228 **Method: Ga-01-R**				
Analysis Date: 09/11/24				
Analyzed By: MICROB				
Radium 226	12.3 ← 7.6+/-0.18		pCi/g dry	N S
Radium 228	4.7+/-0.34		pCi/g dry	N S
Gross Alpha **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Alpha	25.5+/-6.9		pCi/g dry	N S
Gross Beta **Method: 900.0**				
Analysis Date: 08/21/24				
Analyzed By: MICROB				
Gross Beta	17.5+/-3.4		pCi/g dry	N S

Dale Schramer

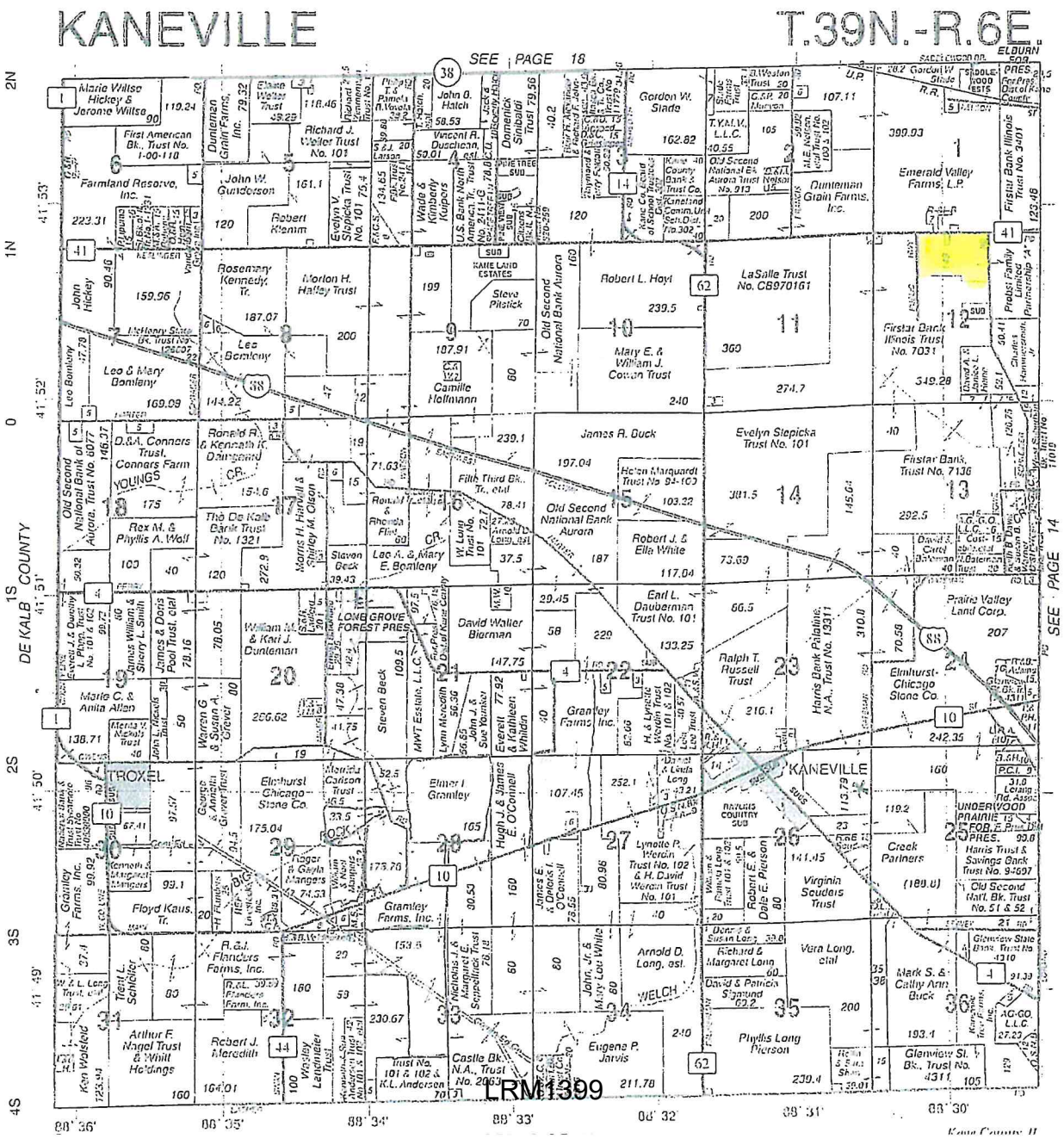
KA Schramer 2

64.75 Acres

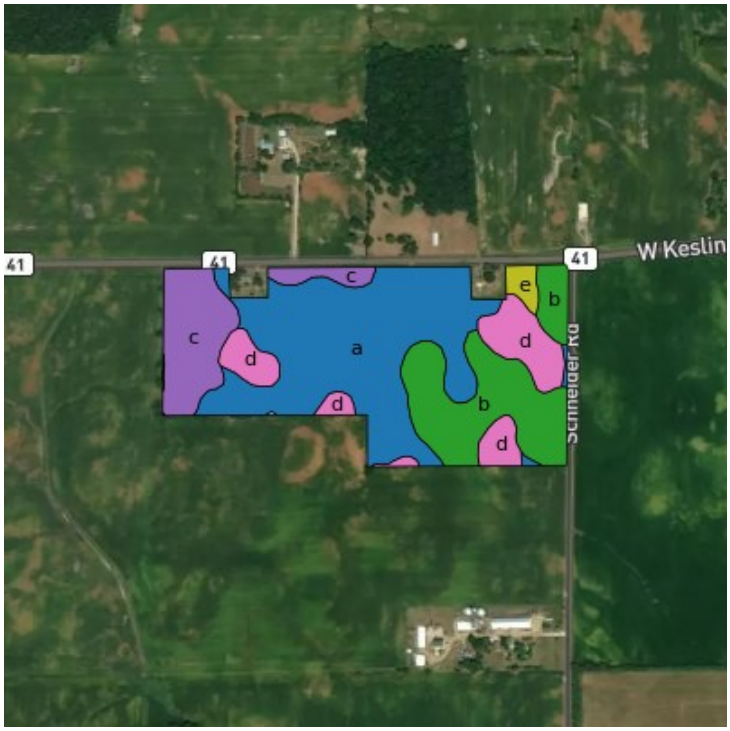
Kane County

Kaneville Township

Section 12



Spirit Family Farms : Schramer Dale Farms : KA Dale Schramer 2



Map Details

State: IL

County: Kane

QQQ:

Location: 12-39N-6E

Township: Kaneville township

Acres: 64.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 348B	Wingate silt loam, cool mesic, 2 to 5 percent slopes	30.4	46.9	192	55	3.00	0	0.82
(b) 152A	Drummer silty clay loam, 0 to 2 percent slopes	14.9	23.0	226	67	5.50	0	0.83
(c) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	9.6	14.8	228	67	5.50	0	0.88
(d) 656C2	Octagon silt loam, 4 to 6 percent slopes, eroded	8.8	13.6	178	53	2.50	0	0.64
(e) 193B	Mayville silt loam, 2 to 5 percent slopes	1.1	1.7	180	54	2.00	0	0.84
(f) 62A	Herbert silt loam, 0 to 2 percent slopes	0.0	0.0	213	61	3.00	0	0.74
	Weighted Average			**203**	**60**	**3.86**	**0.0**	**0.81**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20010620**

Date Reported: **3/4/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 6/26/2019 1:05:00 PM
Project: Background Radiums
Lab ID: 20010620-001
Matrix: SOLID
Client Sample ID KA Dale Schramer 2

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.554	0.0418		pCi/g-dry	± 0.150	1	3/3/2020 11:58:00 AM
Radium-228	0.450	0.0732		pCi/g-dry	± 0.170	1	3/3/2020 11:58:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 2
ACREAGE: 64.75
COUNTY: Kane
TOWNSHIP: Kaneville Township
SECTION: 12

FARMER: Dale Schramer
ADDRESS: 4N460 Meredith Rd
Maple Park, IL 60151
PHONE #:

Metal Loadings in Pounds per Ac

Source of biosolids
1 Bensenville
2 Elmhurst
3 Wheaton
4 Downers Grove Sanitary District
5 Village of Addison-A.J. LA Rocca
6 Village of East Dundee
7 Salt Creek
8 Aurora Lime

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Oct-19	0	1.72	2.83	0.12	0.19	2.36	0.02	0	0.02	0.04					936	117.61
2	Oct-19	0.01	6.64	6.38	0.25	0.3	6.31	0.06	0.01	0.02	0.11		pci/g			1563	293.84
3	Oct-19	0.01	5.92	5.58	0.17	0.31	6.95	0.03	0	0.05	0.15	0.0130	pci/g			715	193.04
4	Dec-24	0.03	5.33	4.33	0.22	0.18	6.41	0.07	0	0.07	0.09		pci/g		2320		271.82
5	Dec-24	0	0.14	0.48	0.01	0.01	0.27	0	0	0	0				100		25.47
7	Dec-24	0	1.35	1.6	0.21	0.11	2.57	0.01	0	0.02	0.03				579		76.19
8	Dec-24	0.011	0.135	0.882	0.061	0.011	0.176	0	0	0	0	0.022	12.3 pci/g			642.63	223.96
6	Dec-24	0	0.13	0.13	0	0.01	0.12	0	0	0	0				25		3.82
	TOTAL	0.06	21.37	22.21	1.04	1.12	25.17	0.19	0.01	0.18	0.42	0.0350	pci/g				
	%of LIMIT	0.6	8.5	2.5	1	0.1	5	0.2	0	2.3	2.6						

1	Background Radium	1.004	pci/g
2	Site Limit	2.004	pci/g
3	Cumulative Total to Date	1.04	pci/g
4	% of Total Cumulative Limit	51.85	%

1 Background Radium determined from soil test results
2 Cumulative total includes background and land application
3 Allowable Radium is remainder of limit after background is removed
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	07-21-100-004
Section Number	21	Township *(Number and Direction)*	T35N
Tillable Acres	129	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):		KE Dana Friestad 7	

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	2.28	+ / -	0	Radium-228	0.2	+ / -	0.

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
12/7/24	410.38	3.18	129	7.6	4.7
12/9/24					

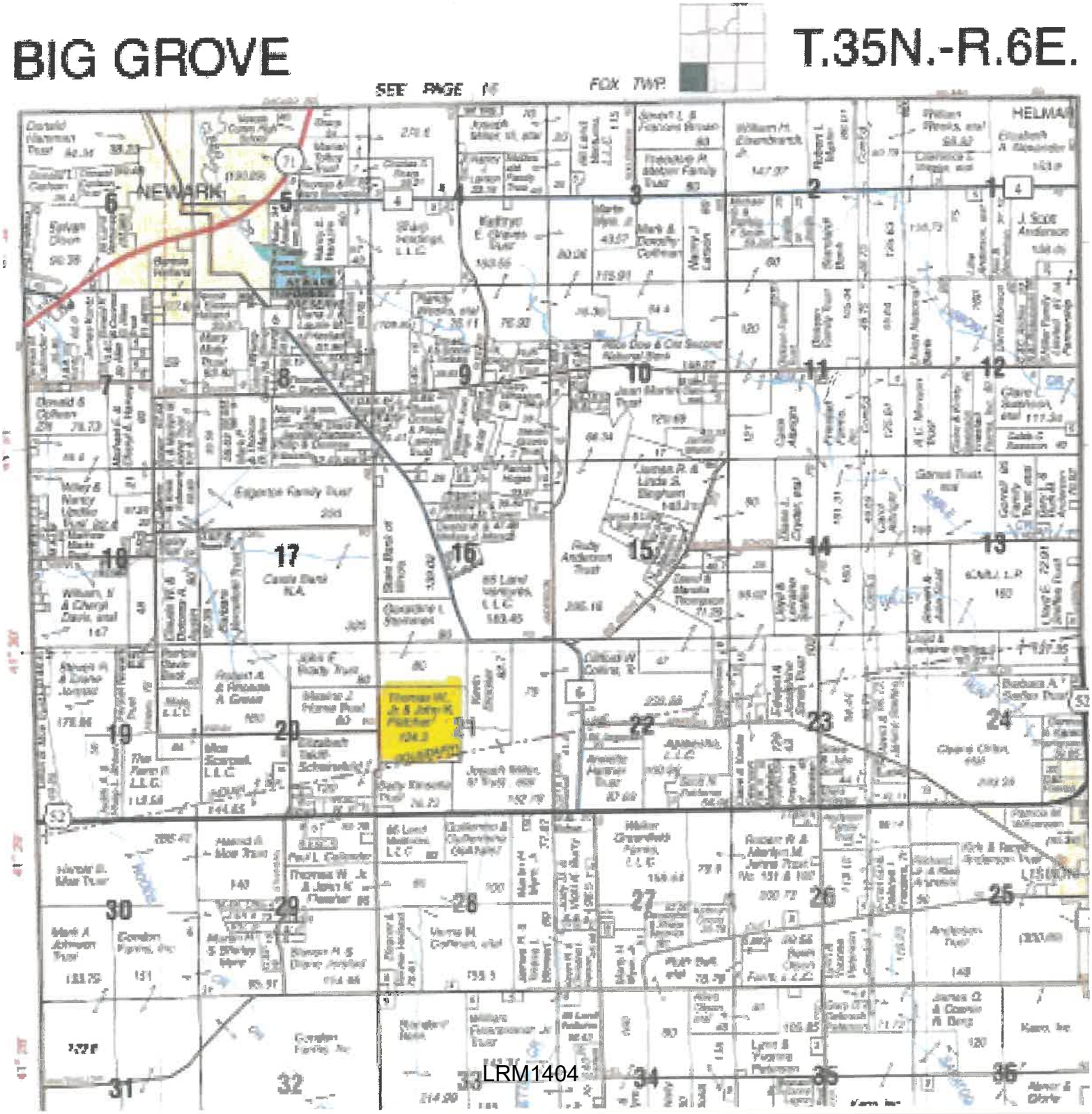
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/28/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dana Friested

KE Dana Friested 1
129 acres
Kendall County
Big Grove Township
Section 21


BIG GROVE
T.35N.-R.6E.
SEE PAGE 16
FOX TWP
NEWARK
HELMAR
Eggers Family Trust
Casey Bank N.A.
65 Land Ventures, L.L.C.
Thomas W. Jr & John K. Fletcher
Elizabeth Tuttle Schmidt
Mae Scarpati, L.L.C.
Robert A. & Pamela A. Greer
Marvin J. Friese Trust
Marvin A. Moe Trust
Paul L. Colbrook
Thomas W. Jr & John K. Fletcher
Marvin W. Carlson, et al
Mark A. Johnson Trust
Gordon Farms, Inc.
Meyer Greenfield Farms, L.L.C.
Robert W. & Marilyn M. James Trust
Anderson Trust
Clara Orton
J. Scott Anderson
Mark & Dorothy Carlson
Nancy J. Larson
Sylvan Olson
Donald Norman Trust
Donald & Clifton
Nancy Lemm
Patrick Hogan
Gerald Trust, et al
Gerald Family Trust, et al
Barbara A. Stefan Trust
Lloyd & Lorraine Stefan
Lloyd & Jackie Stefan Trust
Clifford W. Collins, Jr.
Arnette Hansen Trust
Joseph Miller, et al
Kelly Kinsella Trust
Kevin Reckner
Robert A. & Pamela A. Greer
Mae Scarpati, L.L.C.
Elizabeth Tuttle Schmidt
Marvin J. Friese Trust
John F. Reilly Trust
Kelly Anderson Trust

Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 7



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	21-35N-6E
Township:	Big Grove township
Acres:	129.5

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 541B	Graymont silt loam, 2 to 5 percent slopes	64.4	49.7	202	59	4.00	0	0.81
(b) 356A	Elpaso silty clay loam, 0 to 2 percent slopes	21.8	16.8	221	67	5.50	0	0.88
(c) 60C2	La Rose silt loam, 5 to 10 percent slopes, eroded	21.5	16.6	171	53	2.00	0	0.53
(d) 224C2	Strawn silt loam, 5 to 10 percent slopes, eroded	16.6	12.8	153	47	2.00	0	0.57
(e) 224C3	Strawn clay loam, 5 to 10 percent slopes, severely eroded	4.6	3.6	140	44	1.25	0	0.49
(f) 541C2	Graymont silt loam, 5 to 10 percent slopes, eroded	0.7	0.5	194	56	3.00	0	0.70
	Weighted Average			**191**	**57**	**3.56**	**0.0**	**0.73**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

RSSI

6312 Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Wednesday, January 22, 2025

Greg Firrantello
Stewart Spreading
3874 North Route 71
Sheridan, Illinois 60551

RE: KE Dana Friestad 7 (Soil)

Mr. Firrantello,

A summary of gamma spectroscopy results for RSSI's sample number G250018 is in Table 1. Stewart Spreading identified the sample as KE Dana Friestad 7 (Soil). The table below lists the concentrations of radionuclides requested by Stewart Spreading. Values with a less-than symbol ("<") indicate a concentration below RSSI's minimum detectable concentration (MDC). Other identified radionuclides are in the complete gamma spectroscopy report.

Table 1. High-resolution Gamma Spectroscopy Results [pCi/g].

Radionuclide	Sample ID
	G250018
	KE Dana Friestad 7 (Soil)
Ac-228	< 0.20
Ra-228[1]	< 0.20
Pb-214	2.37
Bi-214	2.20
Ra-226[2]	2.28
Total radium[3]	< 2.48

^ Peaks identified by GammaVision at known energies, but not matched to isotope.
[1] The concentration of Ra-228 is calculated from the concentration of its surrogate, Ac-228.
[2] The concentration of Ra-226 is calculated from the average of the concentrations of its surrogates, Pb-214 and Bi-214.
[3] Total radium is the sum of the reported concentrations of Ra-228 and Ra-226, based on the surrogates Ac-228, Pb-214, and Bi-214.

Some radionuclides of interest, radium-226 (Ra-226) and radium-228 (Ra-228), are difficult to identify and quantify directly at low concentrations with reasonable counting intervals. The concentrations of surrogates with more abundant high-energy photons usually represent the

METAL LOADING RECORD

SITE NUMBER: 7
ACREAGE: 129
COUNTY: Kendall
TOWNSHIP: Big Grove
SECTION: 21

FARMER: Dana Friested
ADDRESS: 9218 Whitewillow Raod
Morris, IL 60450

Source of biosolids
1 Lasma Lagoon 27
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Oct-24	0.03	5.75	6.48	0.53	1.2	12.45	0.14	0.00	0.14	0.20					4549.65	914.48
2	Dec-24	0.010	0.123	0.801	0.055	0.010	0.160	0.000	0.000	0.000	0.000	0.0200	12.3 pci/g			1165.42	410.38
TOTAL		0.04	5.87	7.28	0.59	1.21	12.61	0.14	0	0.14	0.2	0.020	pci/g				
%of LIMIT		0.4	2.3	0.8	0.6	0.1	2.5	0.1	0	1.8	1.2						

1	Background Radium	2.480	pci/g
2	Site Limit	3.000	pci/g
3	Cumulative total to Date	2.500	pci/g
4	% of Total Cumulative Limit	83.33	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935

Fax: 217-524-6417
www.iema.illinois.gov

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1. Facility Name: Aurora **IEPA ID #** IL 0894070

(●) CWS ( ) POTW ( ) Applicator ( ) Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	09-07-400-003
Section Number	7	Township *(Number and Direction)*	T35N
Tillable Acres	169	Range *(Number and Direction)*	R6E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friestad 2

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes (●) No ( )
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0	+ / -	0.16	Radium-228	0.69	+ / -	0.190

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

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In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

_____ _____ _____

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE **PRINTED NAME** **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
12/10/24	326.96	1.93	169	7.6	4.7

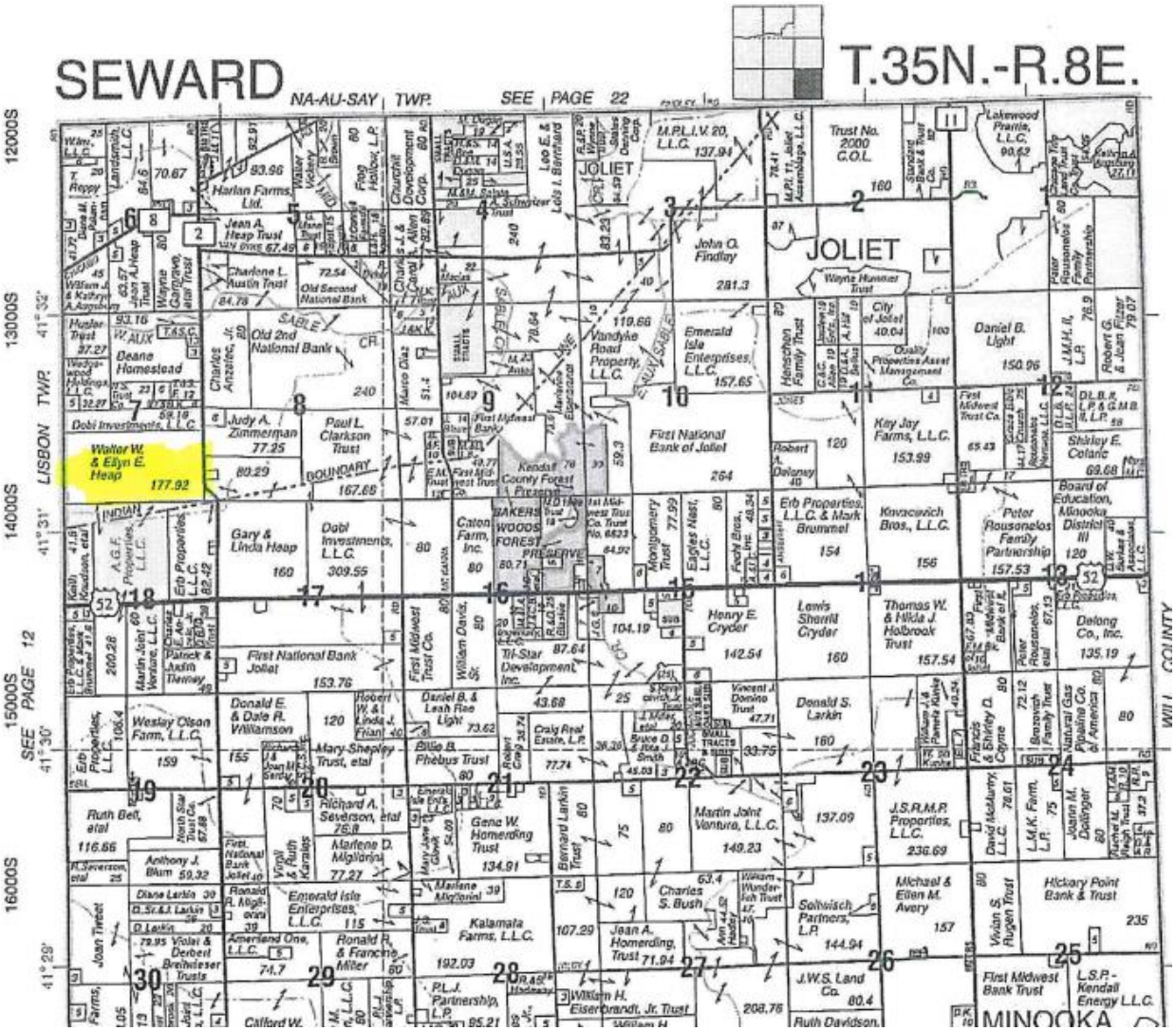
5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/28/2025 Title: Agronomy Compliance

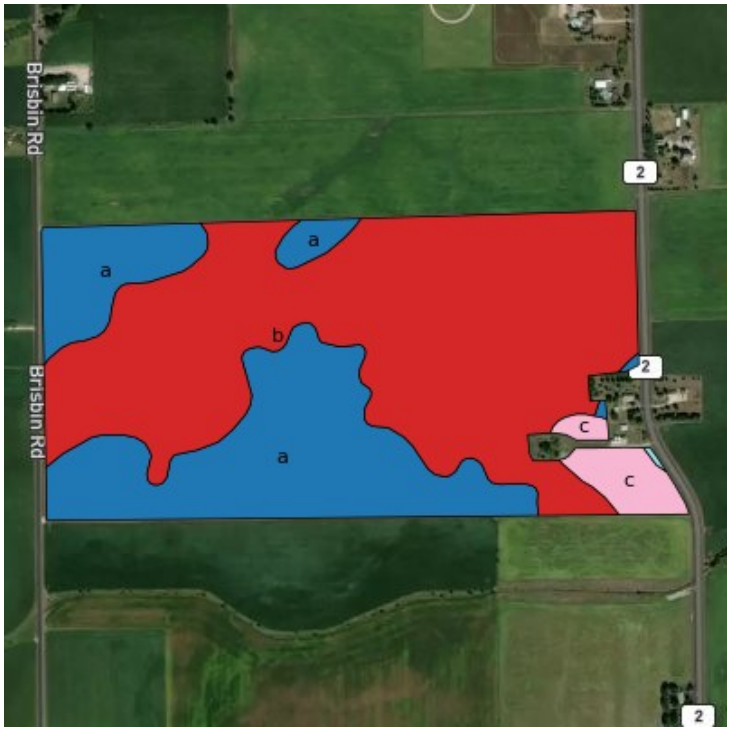
Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

Dana Friested

KE Dana Friested 2
169 acres
Kendall County
Seward Township
Section 7



Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 2



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	7-35N-8E
Township:	Seward township
Acres:	169.4

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 91A	Swygert silty clay loam, 0 to 2 percent slopes	90.7	53.5	179	55	4.00	0	0.63
(b) 235A	Bryce silty clay, 0 to 2 percent slopes	72.1	42.6	179	56	5.50	0	0.56
(c) 69A	Milford silty clay loam, 0 to 2 percent slopes	6.5	3.8	192	59	5.25	0	0.67
(d) 189A	Martinton silt loam, 0 to 2 percent slopes	0.1	0.1	198	61	4.50	0	0.86
	Weighted Average			**180**	**56**	**4.69**	**0.0**	**0.60**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20090540**

Date Reported: **10/27/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 6/15/2020 2:30:00 PM
Project: Radium Backgrounds
Lab ID: 20090540-001
Matrix: SOLID
Client Sample ID: KE Dana Friestad 2

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)					**E901.1M**		Analyst: **CXS**
Radium-228	0.690	0.0700		pCi/g	± 0.190	1	9/18/2020 7:38:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **20090540**

Date Reported: **10/27/2020**

CLIENT: Stewart Spreading, Inc
Collection Date: 6/15/2020 2:30:00 PM
Project: Radium Backgrounds
Lab ID: 20090540-001
Matrix: SOLID
Client Sample ID: KE Dana Friestad 2

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 ANALYSIS (9315)				**SW9315**	**E903-904**	Analyst: **HDJ**	
Radium-226	U	1.00		pCi/g-dry	± 0.16	1	10/20/2020
Yield	1.00			pCi/g-dry		1	10/20/2020

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits

METAL LOADING RECORD

SITE NUMBER: KE Dana Friested 2
ACREAGE: 169
COUNTY: Kendall
TOWNSHIP: Seward
SECTION: 7
FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Lasma Lagoon 28
2 Aurora Lime

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)	
1	Aug-20	0.04	5.43	7.56	0.51	1.06	9.78	0.1	0.01	0.06	0.19		
2	Aug-20	0.012	0.051	0.634	0.036	0.003	0.085	0.000	0.000	0.000	0.000	0.006	4.1 pci/g
2	**Dec-24**	0.006	0.073	0.479	0.033	0.006	0.095	0.000	0.000	0.000	0.000	0.012	12.3 pci/g
	TOTAL	0.06	5.55	8.67	0.58	1.07	9.96	0.1	0.01	0.06	0.19	0.018	pci/g
	%of LIMIT	0.6	2.2	1	0.6	0.1	2	0.1	0	0.8	1.2		

1	Background Radium	0.690	pci/g
2	Site Limit	1.690	pci/g
3	Cumulative Total to Date	0.708	pci/g
4	% of Total Cumulative Limit	41.89	%

1 Background Radium determined from soil test results
2 Radium concentration in soil can not exceed this limit
3 Cumulative total includes background and land application
4 Includes Background and Applied Radiums

Field and Land Application Reporting Form

32 Ill. Adm. Code Section 330.40(d) - Radium Treatment Residuals

IEMA
Illinois Emergency Management Agency
Division of Nuclear Safety

If field has been previously reported to IEMA, complete only sections 1, 2, 4, and 5.

1035 Outer Park Drive
Springfield, IL 62704
Phone: 217-785-9935
Fax: 217-524-6417
www.iema.illinois.gov

1. Facility Name: Aurora **IEPA ID #** IL 0894070

◉ CWS ○ POTW ○ Applicator ○ Other _____

2. Site Description and Location

County Name	Kendall	Tax Parcel ID Number *(PIN)**	See Next Page
Section Number	15	Township *(Number and Direction)*	T35N
Tillable Acres	314	Range *(Number and Direction)*	R7E
* IEMA is moving to tracking fields by Tax Parcel ID rather than by a user-specified 'field name'. If this field has already been reported to IEMA, please list the previously reported 'Field Name' (for example, "Bremmer-5" or "KA-98"):			KE Dana Friestad 1

3. Site Soil Characteristics and Landowner Acknowledgment *(Section 3 only required for new fields)*

- Does the site meet Section 330.40(d) pH, clay, and organic matter requirements? Yes ◉ No ○
- If a new field that has not been previously reported to IEMA, record the background radium soil concentrations and attach laboratory results:

Radium-226	0.613	+ / -	0.120	Radium-228	1.01	+ / -	0.220

INFORMATIONAL NOTICE TO LANDOWNERS: *(Landowner must sign and date)*

The Illinois Environmental Protection Agency, as well as the U.S. Environmental Protection Agency, requires the biosolids you are receiving to be monitored for trace metals, organic and inorganic chemicals as well as pathogens. In addition, the Illinois Emergency Management Agency (IEMA) requires the monitoring of radium pursuant to 32 Illinois Administrative Code 330.40(d). Radium is naturally present in soil and groundwater. When removed from drinking water and land-applied, these biosolids could elevate the radium content in the soil above natural levels.

IEMA, as the regulatory agency for ionizing radiation, requires that land-applied biosolids be monitored for radium including the cumulative amount of radium deposited on agricultural fields. Fields that approach the regulatory limit of 3.0 pCi/g are required to utilize alternative sources of fertilizer (i.e., biosolids without elevated radium from drinking water). The additional monitoring and land application provisions of Section 330.40(d) ensure that the public is protected from significant health, environmental, and agricultural impacts.

In an effort to inform the public, this form serves as an acknowledgement of awareness by the landowner, or authorized agent of the landowner, that biosolids applied to field(s) for beneficial nutrient purposes contain radium. For further information about radium, you may contact IEMA at 217-558-5142.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

AUTHORIZED SIGNATURE OF LANDOWNER OR THEIR DESIGNEE | **PRINTED NAME** | **DATE**

4. Land Applications Applied to this parcel of land during 2020 Type or print legibly. Use additional sheets if necessary.

Date(s) of Land Application	Dry Tons Applied	Application Rate (Dry Tons / Acre)	Acres Utilized	Radium-226 Concentration (pCi/g)	Radium-228 Concentration (pCi/g)
12/9/24	298.09	.95	314	7.6	4.7
12/10/24					

5. I certify the information provided above is accurate,

Signature: Billie M Marko Date: 4/28/2025 Title: Agronomy Compliance

Printed Name of Contact Person: Billie Marko Phone Number: 815-695-5667

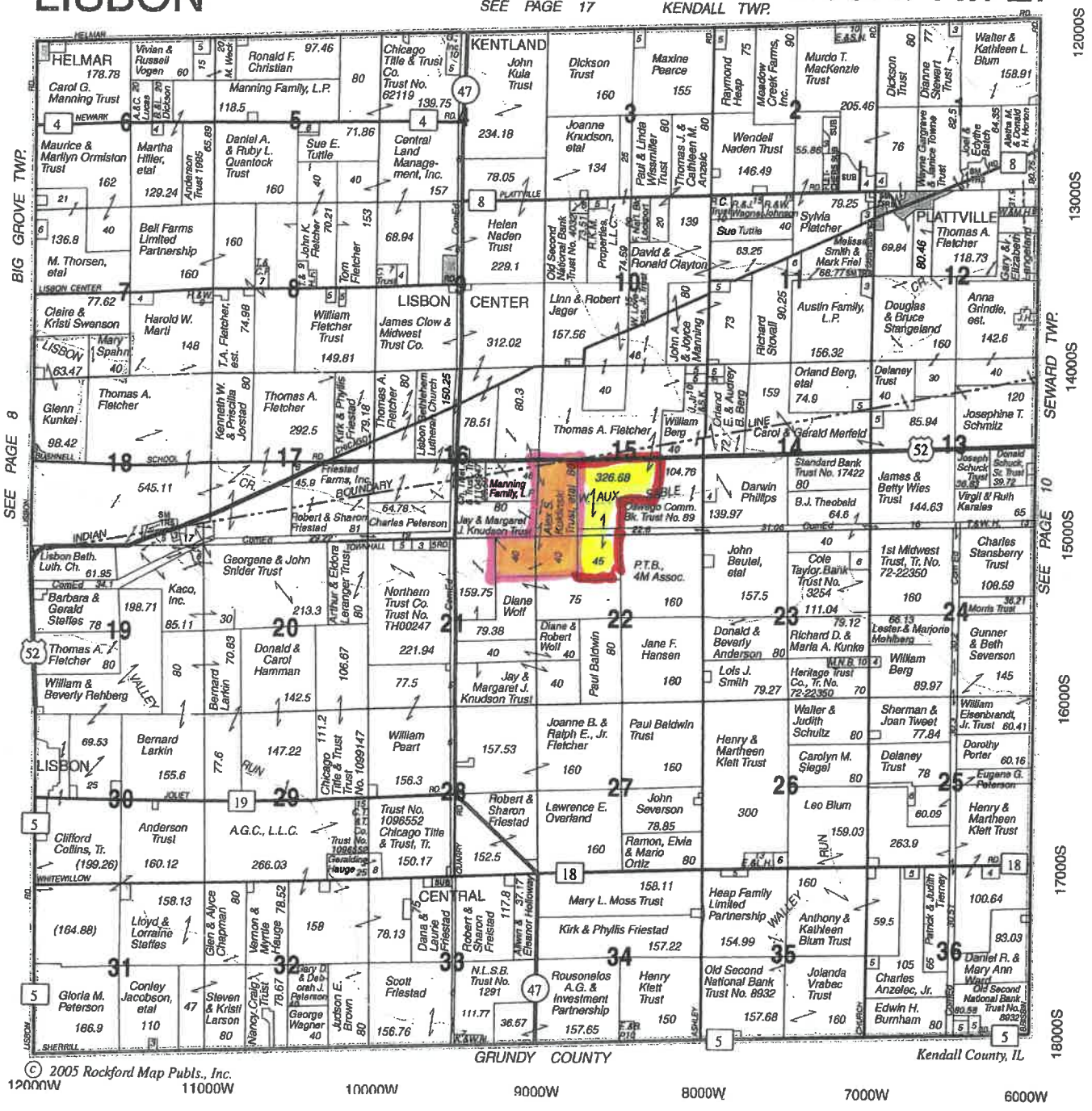
Dana Friested

KE Dana Friested 1
314
Kendall county
Lisbon

LISBON

SEE PAGE 17 KENDALL TWP.

T.35N.-R.7E.

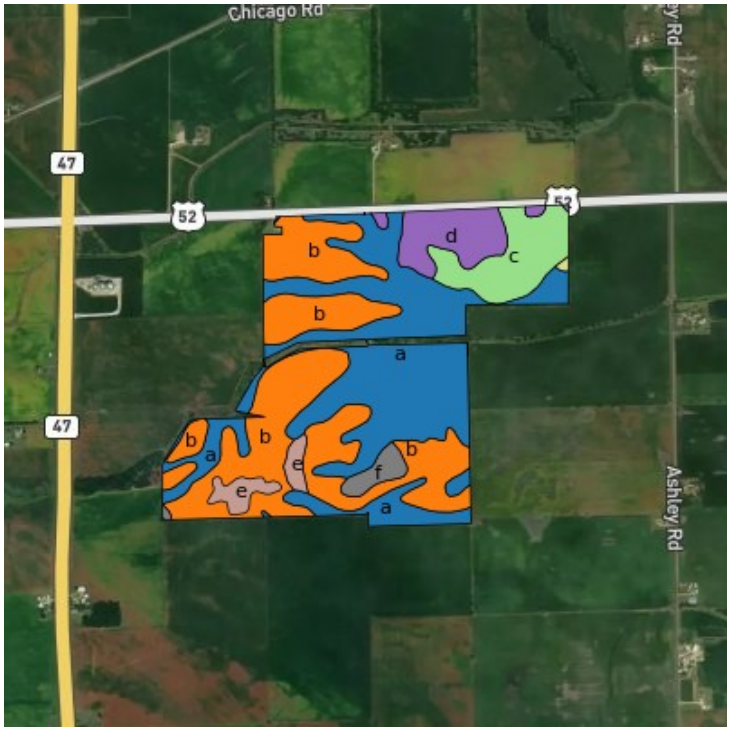


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A FULL SERVICE RESIDUALS MANAGEMENT COMPANY

3870 N. Route 71 – Sheridan, Il 60551 – Office 815.695.5667 – Fax
815.695.5770 Website: www.Stewartspreading.com

Spirit Family Farms : Friestad Dana Farms : KE Dana Friestad 1



Map Details

State:	IL
County:	Kendall
QQQ:	
Location:	15-35N-7E
Township:	Lisbon township
Acres:	314.8

Code	Soil Description*	Acres	% of Field	Corn (bu/ac)†	Soybean (bu/ac)†	OM*	CSR2*	NCCPI*
(a) 152A	Drummer silty clay loam, 0 to 2 percent slopes	128.0	40.7	221	67	5.50	0	0.83
(b) 149A	Brenton silt loam, 0 to 2 percent slopes	119.8	38.1	223	64	4.00	0	0.93
(c) 69A	Milford silty clay loam, 0 to 2 percent slopes	28.5	9.0	192	59	5.25	0	0.67
(d) 189A	Martinton silt loam, 0 to 2 percent slopes	22.3	7.1	198	61	4.50	0	0.86
(e) 206A	Thorp silt loam, 0 to 2 percent slopes	9.3	2.9	196	59	5.00	0	0.89
(f) 148A	Proctor silt loam, 0 to 2 percent slopes	6.4	2.0	210	61	3.50	0	0.90
(g) 67A	Harpster silty clay loam, 0 to 2 percent slopes	0.4	0.1	208	61	5.00	0	0.79
(h) 148B	Proctor silt loam, 2 to 5 percent slopes	0.0	0.0	208	60	3.50	0	0.88
	Weighted Average			**216**	**64**	**4.78**	**0.0**	**0.86**

Organic matter is calculated using a depth weighted average of the top 20 cm for all components.
†Corn and Soybean non-irrigated yields are calculated via AgSolver's data sets
*Soil data is acquired from the USDA-NRCS SSURGO FY2021 product

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **19101401**

Date Reported: **11/13/2019**

CLIENT: Stewart Spreading, Inc
Collection Date: 7/15/2019 9:00:00 AM
Project: Aurora Lime Fields
Lab ID: 19101401-003
Matrix: SOLID
Client Sample ID KE Dana Friasted 1

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
GAMMA SPEC (901.1M)				**E901.1M**			Analyst: **CXS**
Radium-226	0.613	0.0236		pCi/g-dry	± 0.120	1	11/12/2019 2:19:00 PM
Radium-228	1.01	0.0354		pCi/g-dry	± 0.220	1	11/12/2019 2:19:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

METAL LOADING RECORD

SITE NUMBER: 1
ACREAGE: 314
COUNTY: Kendall
TOWNSHIP: Kendall
SECTION: 16

FARMER: Dana Friested
ADDRESS:

Source of biosolids
1 Aurora Lime
2 Lagoon 28
3 Marathon

Metal Loadings in Pounds per Acre

	DATE	Cadmium	Copper	Manganese	Nickel	Lead	Zinc	Arsenic	Mercury	Selenium	Moly	Radium (pci/g)		Gallons	Cu. Yrds	Wet Tons	Dry Tons
1	Sep-19	0.007	0.031	0.393	0.022	0.002	0.053	0.00	0.00	0.00	0.00	0.0040				869.23	277.70
2	Oct-19	0.060	8.010	11.510	0.860	1.600	16.280	0.300	0.010	0.100	0.230					4655.43	1489.74
3	Oct-19	0.070	5.730	6.440	0.560	1.340	11.230	0.130	0.010	0.060	0.150					2331.96	939.78
1	Oct-19	0.008	0.033	0.414	0.024	0.002	0.055	0.000	0.000	0.000	0.000	0.0040				767.8	295.53
1	Dec-25	0.003	0.037	0.239	0.017	0.003	0.048	0.000	0.000	0.000	0.000	0.006	12.3 pci/g			853.63	298.09
TOTAL		0.15	13.84	19	1.48	2.95	27.67	0.43	0.02	0.16	0.38	0.014	pci/g				
%of LIMIT		1.5	5.5	2.1	1.5	0.3	5.5	0.4	0.1	2	2.4						

1	Background Radium	1.623	pci/g
2	Site Limit	2.623	pci/g
3	Cumulative total to Date	1.637	pci/g
4	% of Total Cumulative Limit	62.41	%

1 Background Radium determined from soil test results
2 Radium Concentration in soil can not exceed this limit
3 Cumulative toatal includes background and land application
4 Includes Background and Applied Radiums

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 14, 2024

2.) Name of User: Dale Schramer

3.) Address of User: 4N460 Meredith Rd Maple Park IL 60151

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KA Schramer 2

6.) Size of Area Where Lime is to be Used: 64.8 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium In Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

X _____ 6-14-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER — DATE

Revised 10-24-11

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User:

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 7

6.) Size of Area Where Lime is to be Used: 129 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User: 9218 Whitewillow Road Morris IL 60450

4.) Phone Number of User:

5.) Location Where Lime is to be Used: Kendall County, Seward Township, Section 7 KE Dana Friested 2

6.) Size of Area Where Lime is to be Used: 169 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rates/pH

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: Silt Loam Less than 6.5

15.) Limitations from Site Characteristics: None Observed

16.) Has sludge been applied to land within last 5 years? Yes No (Circle One)
Name of Generator Aurora LIme
Amount Applied approx. 2000 wet tons
Years Applied 2020

WATER TREATMENT PLANT LIME USER INFORMATION SHEET

1.) Date: June 10, 2024

2.) Name of User: Dana Friested

3.) Address of User:

4.) Phone Number of User:

5.) Location Where Lime is to be Used: KE Dana Friested 1

6.) Size of Area Where Lime is to be Used: 314 Acres

7.) Proximity of Site to Closest: (a) Stream or other body of water > 200 Ft. (b) Dwelling > 100 Ft.
(c) Well > 200 Ft. (d) Other Water Supply (Describe) None Observed

8.) Amount of Lime Obtained: Per Agronomic Rate

9.) Describe Uses of Lime (e.g. Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other)
Agriculture pH Soil Conditioner

10.) Manner in Which Lime is to be Applied (e.g.) Spread by Truck or dry applicator, by Hand, Worked into the soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other: Surface Application

11.) Will Lime be Stockpiled Before Application : Yes

12.) Estimated Length of Time Lime is to be Stockpiled: <60 days

13.) Type and expected yield of crops to be grown on Lime amended land:

corn	200	bu/A	grass/hay		T/A
soybeans	60	bu/A	CRP		
wheat	90	bu/A			

14.) The soil type and pH of the land that I am applying lime is: See Analysis

15.) Limitations from Site Characteristics: None Observed

16.) Have Lime Residuals been applied to land within last 5 years? Yes **No** (Circle One)

Name of Generator

Amount Applied

Years Applied

ADDENDUM 1

Radium in Biosolids Landowner Acknowledgment Form

The Biosolids that you are obtaining contains less than 100 pCi/g of naturally occurring radium as a result of treating drinking water.

Pursuant to 32 Illinois Administrative Code 330.40(d), this letter serves as an acknowledgment of awareness as landowner or an authorized agent of the landowner that treatment residuals ("sludge" or biosolids") applied to your field(s) for beneficial nutrient purposes by

STEWART SPREADING INC.

Contain a small amount of naturally occurring radioactive material that may result in a minor elevation in radium concentration in effected soils above the natural background levels. Radium is naturally occurring in the environment and is concentrated in the biosolids as a result of treating drinking water. **When applied in accordance with 32 Illinois Administrative Code 330.40(d), there is not a significant health, environmental, or agricultural impact.**

The Illinois Emergency Management Agency monitors the cumulative amount of radium deposited on agricultural fields as a result of land applications. Should your field approach the regulatory limit of 3.0 pCi/g, alternative sources of non-radium biosolids will have to be used.

I hereby acknowledge my awareness of the above conditions resulting from land application of treatment residuals on my property.

Dana Freistad 6-10-24

AUTHORIZED SIGNATURE OF LANDOWNER OR DESIGNEE/ AGENT OF OWNER DATE

Revised 10-24-11

3870 N. ROUTE 71 • SHERIDAN, IL 60551 • OFFICE 815-695-5667 • FAX 815-695-5770

EXHIBIT 11

Pace Analytical®

Report of Analysis

City of Aurora
44 East Downer Place
Aurora, IL 60507
Attention: Megan Luers

Project Name: Pre Survey Sludge

Lot Number:**XL19016**

Date Completed:12/30/2022

01/03/2023 4:36 PM
Approved and released by:
Project Manager I: **Kayla S. Holliday**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

EXHIBIT 11

Case Narrative
City of Aurora
Lot Number: XL19016

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

Sample Summary
City of Aurora
Lot Number: XL19016

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	LAGOON 2	Solid	12/13/2022 1330	12/19/2022
002	LAGOON 5	Solid	12/13/2022 1320	12/19/2022

(2 samples)

Detection Summary

City of Aurora

Lot Number: XL19016

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Client: City of Aurora
Description: LAGOON 2
Date Sampled: 12/13/2022 1330
Date Received: 12/19/2022

Laboratory ID: XL19016-001
Matrix: Solid
% Solids: 41.9 12/20/2022 0459

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	12/27/2022 1545	ARC2	12/23/2022 1418	63564

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		4.6	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		4.6	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		4.6	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		4.6	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		4.6	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		4.6	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		9.3	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		4.6	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		4.6	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.6	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		4.6	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.6	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.6	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		4.6	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		4.6	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.3	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		51	25-150
13C2_6:2FTS		45	25-150
13C2_8:2FTS		55	25-150
13C2_PFDoA		86	25-150
13C2_PFHxDA		80	25-150
13C2_PFTeDA		87	25-150

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: City of Aurora
Description: **LAGOON 2**
Date Sampled: **12/13/2022 1330**
Date Received: **12/19/2022**

Laboratory ID: XL19016-001
Matrix: **Solid**
% Solids: **41.9** **12/20/2022 0459**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		61	25-150
13C3_PFHxS		60	25-150
13C3-HFPO-DA		89	25-150
13C4_PFBA		76	25-150
13C4_PFHpA		74	25-150
13C5_PFHxA		74	25-150
13C5_PFPeA		73	25-150
13C6_PFDA		80	25-150
13C7_PFUdA		84	25-150
13C8_PFOA		74	25-150
13C8_PFOS		57	25-150
13C8_PFOSA		42	10-150
13C9_PFNA		69	25-150
d-EtFOSA		89	10-150
d5-EtFOSAA		86	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		70	10-150
d3-MeFOSAA		72	25-150
d7-MeFOSE		94	10-150

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: City of Aurora
Description: LAGOON 5
Date Sampled: 12/13/2022 1320
Date Received: 12/19/2022

Laboratory ID: XL19016-002
Matrix: Solid
% Solids: 34.7 12/20/2022 0459

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	12/27/2022 1556	ARC2	12/23/2022 1418	63564

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		5.3	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		5.3	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		5.3	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		5.3	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		5.3	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		5.3	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		11	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		5.3	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		5.3	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.3	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		5.3	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.3	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.3	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		5.3	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		5.3	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.7	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		116	25-150
13C2_6:2FTS		100	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		102	25-150
13C2_PFHxDA		96	25-150
13C2_PFTeDA		109	25-150

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: City of Aurora
Description: **LAGOON 5**
Date Sampled: **12/13/2022 1320**
Date Received: **12/19/2022**

Laboratory ID: XL19016-002
Matrix: **Solid**
% Solids: **34.7** **12/20/2022 0459**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		100	25-150
13C3_PFHxS		103	25-150
13C3-HFPO-DA		96	25-150
13C4_PFBA		98	25-150
13C4_PFHpA		95	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		96	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		96	25-150
13C8_PFOS		95	25-150
13C8_PFOSA		90	10-150
13C9_PFNA		96	25-150
d-EtFOSA		107	10-150
d5-EtFOSAA		100	25-150
d9-EtFOSE		97	10-150
d-MeFOSA		97	10-150
d3-MeFOSAA		104	25-150
d7-MeFOSE		101	10-150

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Chain of Custody
and
Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 41224

Client: City of Aurora	Report to Contact: Megan Lewis	Telephone No. / E-mail: 630-256-3425	Quote No.: 00127878
Address: 1111 Aurora Ave	Sampler's Signature: x Eric Martinez	Analysis (Attach list if more space is needed): PFAS Global	Page ____ of ____
City: Aurora State: IL Zip Code: 60505	Printed Name: Eric Martinez		Lot # For Code: XL19016 KSI-2
Project Name: Pre-Comp Sludge			
Project No.	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab (G) or Composite (C)	Matrix: Air (A) / Solid (S) / Non-Potable (N)	Total	H2SO4	HNO3	HCl	NaOH	5035 Kit	Other
Lagoon 3	12/12/22	13:30	G	N	1						
Lagoon 5	12/12/22	13:20	G	N	1						

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time
1. Relinquished by: Eric Martinez	12/12/22	13:40
2. Relinquished by	Date	Time
3. Relinquished by	Date	Time
4. Relinquished by: UPS	12/14/22	1240

	Date	Time
1. Received by		
2. Received by	Date	Time
3. Received by	Date	Time
4. Laboratory received by: Hayley Roberts	12/14/22	1240

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): Yes (No) Ice Pack — Receipt Temp: 11.0 °C — Temp Blank: Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MECR3M2-01

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)
Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: CITY OF AURORA Cooler Inspected by/date: KNR / 12/05/22 Lot #: XL19016

Means of receipt: ☐ Pace ☐ Client ☑ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 22-2027

11.0 / 11.0 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☑ No	☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone / (email) / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC and all sample containers?
☑ Yes	☐ No		7. Was collection date & time listed on the COC and all sample containers?
☑ Yes	☐ No		8. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		9. Were tests to be performed listed on the COC?
☑ Yes	☐ No		10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		11. Was adequate sample volume available?
☑ Yes	☐ No		12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		13. Were all samples containers accounted for? (No missing/excess)
☐ Yes	☐ No	☑ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	17. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☑ No	☐ NA	18. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H_2SO_4, HNO_3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Unique ID: NA

Comments:

Qualtrax ID: 55360 Pace® Analytical Services, LLC Page 1 of 1

EXHIBIT 12

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR JOHN J. KIM, ACTING DIRECTOR

217/782-0610

May 30, 2019

Lafarge Aggregates Illinois, Inc.
1300 S. IL Route 31
South Elgin, IL 60177

Re: Lafarge Aggregates Illinois, Inc. -- Conco Quarry
BOW ID#: W0899000008
NPDES General Permit No. ILG840066
Final Permit

Dear Applicant:

The Agency has determined that your facility may be covered under NPDES General Permit No. ILG8400 for non-coal mines. Attached is the final Permit for your discharge. The permit as issued covers discharge limitations, monitoring, and reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

Pursuant to the Final NPDES Electronic Reporting Rule, all permittees must report DMRs electronically unless a waiver has been granted by the Agency. The Agency utilizes NetDMR, a web-based application, which allows the submittal of electronic Discharge Monitoring Reports instead of paper Discharge Monitoring Reports (DMRs). More information regarding NetDMR can be found on the Agency website, https://www2.illinois.gov/epa/topics/water-quality/surface-water/netdmr/Pages/quick-answer-guide.aspx. If your facility has received a waiver from the NetDMR program, a supply of preprinted paper DMR Forms will be sent to your facility. Additional information and instructions will accompany the preprinted DMRs. Please see the attachment regarding the electronic reporting rule.

The attached Permit is effective as of the date of this letter. You have the right to appeal placement of your facility under this permit to the Illinois Pollution Control Board within a 35-day period following the effective date.

Modifications may only be made to the construction authorization portion of this permit. If changes in other portions of the general permit are necessary, the Agency will require that the applicant obtain an individual permit for this facility.

If you have questions or comments regarding the above, please contact Darren Gove at 217/782-0610.

Sincerely,

Darin E. LeCrone, P.E.
Manager, Industrial Unit, Permit Section
Division of Water Pollution Control

DEL:DRG:ILG840066_ILG84 Permit Letter & Const Auth_28Jul16(3).docx

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

AUG 28 2019

REVIEWER: JMR

Attachments: General Permit

cc: DWPC, FOS, DesPlaines
Records Unit
CAS
Billing
CMAP
DRSCW/The Conservation Foundation

EXHIBIT 12

NPDES Permit No. ILG840

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

General NPDES Permit
For
Non-Coal Mines

Expiration Date: February 29, 2024

Issue Date: March 1, 2019

Effective Date: March 1, 2019

Coverage under this permit

The permit covers all areas of the State of Illinois discharging to surface Waters of the United States.

Eligibility

This permit may cover all existing and proposed non-coal mines with discharges which currently have an existing NPDES permit or require an NPDES Permit. The types of facilities that may be covered by this permit include and are limited to those operations covered under 40 CFR 436, Subparts B, C and D, for crushed stone, construction sand and gravel, and industrial sand subcategories, and/or those same operations covered under 35 Ill. Adm. Code Subtitle D including the aforementioned operations that have concrete mix plants or asphalt concrete plants subject to 35 Ill. Adm. Code Subtitle C and/or 40 CFR 443, Subpart B for asphalt concrete plants. This permit does not cover cooling water discharges associated with cooling water intakes from waters of the State. Cooling water discharges associated with cooling water intakes from quarry pits in the mine or associated with groundwater wells may be covered by this permit. This permit does not cover discharges to waters that are designated as Outstanding Resource Waters pursuant to 35 Ill. Adm. Code 303.205 and listed in 35 Ill. Adm. Code 303.206.

Discharge Number and Name:	Non-Coal Outfall (s)* Storm Water Discharges** Non-storm Water Discharges** Cooling Water Outfalls*	**Receiving Waters:**	Surface Waters of the United States in Illinois

Effluent Limitations, Monitoring, and Reporting

From the effective date of this permit until the expiration date, the effluent of the above discharge(s) from Non-Coal Outfall (s)* shall be monitored and limited at all times as follows:

	CONCENTRATION LIMITS (mg/L)			
Parameter	**Monthly Average**	**Daily Maximum**	**Sample Frequency**	**Sample Type**
Flow (MGD)			***	
Total Suspended Solids	**35**	**70**	****	*****
Total Suspended Solids (for Industrial Sand operations only)	**25**	**45**	****	*****
Total Suspended Solids (for Concrete Mix Plant)	**15**	**30**	****	*****
pH	Shall be in the Range of 6.5 to 9 Standard Units		1 per month	Grab
Offensive Conditions	No effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids, color, or odor. Turbidity shall be below obviously visible levels.		Once per month	Visual Inspection

*See Special Condition 16.

** See Special Condition 19(b)

***Effluent sampling for flow shall be continuous if hardware allows otherwise it shall be a single reading when monitoring each parameter.

Flows shall be reported as a monthly average on the Discharge Monitoring Reports (DMR). The pH shall be reported as a minimum and a maximum.

****Samples shall be taken three times a month as separate grab samples or one time a month as a composite sample.

*****Composite samples shall consist of at least 3 sample aliquots of approximately equal volume of at least 100 milliliters each, collected at periodic intervals within a 24-hour period. If the permittee elects to take and analyze grab samples, in lieu of a composite sample then: 1) if the discharge is expected to occur on only a single day, three grab samples may be taken within a single 24-hour period or, 2) if the discharge is expected to occur on more than one day, three separate grab samples shall be taken over more than one day to represent the monthly discharge. The one composite sample or three grab samples shall be representative of the discharge over the calendar month. The analysis results of each composite and grab sample shall be reported on the Discharge Monitoring Reports. The monthly average shall be reported on the Discharge Monitoring Reports.

See Special Condition 32 regarding discharge limitations for Asphalt Concrete Plants.

Discharge sampling and monitoring must be representative of the discharges from the facility considering factors such as frequency, duration and intensity of precipitation runoff and operational practices that affect discharge quality.

Authorization to Discharge

To receive authorization to discharge under this general permit, a facility owner or operator must submit the proper application forms to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.

ILG84 Final General NPDES (2019).docx

Darin E. LeCrone, P.E.
Manager, Industrial Unit, Permit Section
Division of Water Pollution Control

Special Conditions

SPECIAL CONDITION 1: Permit Coverage: For the purpose of this permit, this discharge is limited to storm water, non-storm water discharges, process wastewater discharges, industrial wastewater discharges from concrete mix plants, mine dewatering, pit pumpage and pit overflows.

SPECIAL CONDITION 2: Sampling: Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 3: Discharge Monitoring Reports: The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) electronic forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee is required to submit electronic DMRs (NetDMRs) unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, http:www2.illinois.gov/epa/topics/water-quality/surface-water/netdmr/pages/quick-answer-guide.aspx.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 4: Abandonment, Cessation and Suspension of Mining: The permittee shall notify the Illinois Environmental Protection Agency in writing by certified mail within thirty days of abandonment, cessation, or suspension of active mining for thirty days or more unless caused by a labor dispute. During cessation or suspension of active mining, whether caused by a labor dispute or not, the permittee shall provide whatever interim impoundment, drainage diversion, and wastewater treatment is necessary to avoid violations of the Act or Subtitle D: Mine Related Water Pollution.

SPECIAL CONDITION 5: Abandonment Plan: The abandonment plan submitted for the specific project shall be executed and completed in accordance with Sections 405.109 and 405.110 of Subtitle D: Mine Related Water Pollution. Unless infeasible, native topsoil removed during clearing, grading or excavation shall be preserved and stored in a manner that will maximize its use in reclamation or final vegetative stabilization of the site. Where final vegetative stabilization will occur, equipment/vehicle use in these areas shall be restricted to avoid soil compaction or soil conditioning techniques shall be used to support vegetative growth.

SPECIAL CONDITION 6: Permit Revocation: If any statement or representation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon loses all rights thereunder.

SPECIAL CONDITION 7: Rights and Responsibilities: The issuance of this permit (a) shall not be considered as in any manner affecting the title of the premises upon which the mine or mine refuse area is to be located; (b) does not release the permittee from any liability for damage to person or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (c) does not take into consideration the structural stability of any units or parts of the project; and (d) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or with applicable local laws, regulations or ordinances.

SPECIAL CONDITION 8: Transfer of Permits: A permit may be automatically transferred to a new permittee if:

(a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees;

(c) The notice includes a statement that the new permittee plans to meet the provisions of the abandonment plan submitted by the existing permittee and approved by the Agency for coverage under this permit. If a new or modified abandonment plan is submitted with the transfer request, coverage may not be automatically transferred under this permit; and

(d) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

Special Conditions

SPECIAL CONDITION 9: Plans and Specifications Revisions: There shall be no deviations from the approved plans and specifications unless revised plans, specifications and application shall first have been submitted to the Illinois Environmental Protection Agency for approval.

SPECIAL CONDITION 10: Emergency Response and Notification: The permit holder shall notify the Illinois Environmental Protection Agency (217/782-3637) immediately of an emergency at the mine or mine refuse area which causes or threatens to cause a sudden discharge of contaminants into the waters of Illinois and shall immediately undertake necessary corrective measures as required by Section 405.111 under Subtitle D: Mine Related Water Pollution of Illinois Pollution Control Board Rules and Regulations.

SPECIAL CONDITION 11: Permit Application Documentation: Final plans, specifications, application and supporting documents as submitted and approved shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency, by the permit number designated in the heading of this Section.

SPECIAL CONDITION 12: Construction Authorization: The subject facility shall be operated in accordance with the attached Construction Authorization.

SPECIAL CONDITION 13: Requiring an individual permit or an alternative general permit:

The Illinois Environmental Protection Agency may require any person authorized by this permit to apply for and obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Illinois Environmental Protection Agency to take action under this paragraph. The Illinois Environmental Protection Agency may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. The Illinois Environmental Protection Agency may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application required by the Illinois Environmental Protection Agency under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal. The Agency may require an individual NPDES permit based on:

a. information received which indicates the receiving water may be of particular biological significance pursuant to 35 Ill. Adm. Code 302.105 (d) (6).

b. whether the receiving waters are identified as impaired pursuant to the Agency's 303 (d) listing and the site discharges are a potential contributing source of any parameter identified as a cause of that impairment.

c. size of the mining site, proximity of site to the receiving stream, etc.

Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request, in accordance with the requirements of 40 CFR 122.21, to the Illinois Environmental Protection Agency. The request shall be granted by issuance of any individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request.

When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Illinois Environmental Protection Agency.

SPECIAL CONDITION 14: Application Requirements:

Authorization for new mines or modifications of existing permitted mines: Owners or operators of existing permitted discharges must submit a Notice of Intent (NOI) or a permit application in accordance with the requirements of this permit to be authorized to discharge under this general permit. Owners and operators of new discharges, or modification(s) shall complete and submit Forms 1 and 2C and Form WPC-PS-MW with Schedules MA through ME to the Illinois Environmental Protection Agency. Non-coal mines with concrete mix plants or asphalt paving plants shall complete form 2F in addition to the aforementioned forms. The application shall identify cooling waters and heated effluents and include in the application a cooling water and heated effluent plan in accordance with Special Condition 29 when cooling waters or heated effluents are proposed at the site. The application shall specify if the facility accepts clean construction or demolition debris and identify any authorizations received from the Bureau of Land to accept clean construction or demolition debris. The application shall indicate the location on the site where clean construction or demolition debris will be placed and provide information sufficient to show where drainage from the clean construction or demolition debris placement area discharges. The application must include a stormwater pollution prevention plan when required by Special Condition 19.

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Authorization, if granted, will be by letter and include a copy of the permit. Upon review of the NOI or the permit application, the Director may deny coverage under this permit and require submittal of an application for an individual NPDES permit for a previously permitted facility.

Renewals or existing permittees seeking coverage under the General Permit: Applicant for renewal or existing non-coal mine permittee seeking coverage under the general permit may file a Notice of Intent to the Illinois Environmental Protection Agency and must include at a minimum the following information:

a. Name, mailing address, and location of the facility for which the notification is submitted;

b. The operator's name, address, telephone number, ownership status and status as Federal, State, private, public or other entity;

c. Stormwater pollution prevention plan when required by Special Condition 19, if not already approved under a previous non-coal mine permit (If approved under a previous permit, identify the date and title of most recent SWPPP);

d. Documentation indicating modifications are proposed from the previous permitted mine permit boundary, mine operations, mine refuse disposal plan, stormwater pollution prevention plan, abandonment plan, or discharges. Additional application forms and documentation may be required for any modifications to the facility. If the mine permit boundary, mine refuse disposal plan, stormwater pollution prevention plan, abandonment plan or discharges are modified, additional application forms and documentation must be submitted in the application. If no modifications are to be made then indicate no modifications in the NOI or application and identify the dates and titles of the existing plans (refuse disposal, SWPPP, abandonment, etc.) to be followed;

e. Statement whether or not the facility accepts Clean Construction or Demolition Debris;

f. Statement whether or not the facility has a heated effluent or cooling water discharge;

g. Receiving waters.

h. The NOI or permit application for coverage under this permit shall be submitted to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section # 15
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 15: Permit Coverage: This permit covers only those facilities under 40 CFR 436 Subparts B, C, and D and includes all requirements therein. [**NOTE**: 40 CFR 436 Subpart B and C specify the NPDES effluent limitations for the "Crushed Stone Subcategory" and the "Construction Sand and Gravel Subcategory", respectively. 40 CFR 436 Subpart D specifies the NPDES effluent limitations for the "Industrial Sand Subcategory.] This permit may cover asphalt concrete plants or concrete mix plants when either is associated with the mining activities at the site.

SPECIAL CONDITION 16: Discharges Covered: This permit covers only those discharge points identified in the Construction Authorization, non-storm water discharges and storm water discharges from areas subject to Special Condition 19.

SPECIAL CONDITION 17: Well Setbacks: The permittee shall maintain the appropriate setback distances between any excavation and community and/or private water supply wells, as provided in the Illinois Environmental Protection Act. The community and/or private water supply wells for which this condition may apply may be identified with the appropriate setback zones in the attached Construction Authorization.

SPECIAL CONDITION 18: Storm Water Discharges: The Illinois Environmental Protection Agency has determined that the effluent limitations for the non-coal outfall(s) in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit issuance, and no pollution prevention plan will be required for such storm water. This does not preclude the use of pollution prevention techniques as a means or partial means of meeting the effluent limits. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with mining and determine whether any facility modifications have occurred which result in previously treated storm water discharges no longer receiving treatment. If any such discharges are identified, the permittee shall request a modification of coverage under this permit within 30 days after the inspection unless such discharges meet the conditions of Special Condition 19. Records of the annual inspection shall be retained by the permittee for the term of this permit and shall be made available to the Illinois Environmental Protection Agency upon request.

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SPECIAL CONDITION 19: Storm Water Runoff and Storm Water Discharges: All storm water runoff from areas affected by mining activities such as earthen berms, aggregate processing plants, overburden stockpiles, and crushed stone stockpiles, sand and gravel stockpiles and industrial sand product stockpiles, shall be routed to non-coal outfalls except for the following identified in (a) and (b) below:

a. **Surface Runoff from Earthen Areas:** Surface runoff from earthen berms or other earthen areas using spoil from the mining operation is not required to be routed to the Non-Coal Outfall(s) when the earthen areas meet the following conditions:

i) The area is graded to an acceptable slope, covered with sufficient uncontaminated topsoil as needed to support vegetation, seeded at an adequate rate with an appropriate grass mixture to stabilize such areas, properly maintained with vegetation and other practices to minimize the potential for erosion and final stabilization has been completed for the area.

ii) For areas in which final stabilization under Special Condition 19 (a) (i) are incomplete, erosion control measures described in the Illinois Urban Manual (IEPA/USDA, NRCS;2016) are implemented.

iii) The earthen berms or areas are not contaminated by mine refuse, chemical spillage, other wastes or wastewaters from mining activities at the site.

iv) The earthen material does not contain acid producing material.

v) The earthen area has no contact with waters of the United States.

vi) Surface runoff from the earthen areas does not cause water quality violations.

vii) The area is identified in the storm water pollution prevention plan required in Special Condition 19 (b) below as meeting Special Condition 19 (a) (i-vi) above.

b. **Storm Water Discharges and Certain Non-storm Water Discharges.** Storm water runoff discharges and non-storm water discharges are allowed according to the following conditions and this permit provided that the discharges do not contain the following: industrial wastewater; mine process wastewater; pit pumpage; pit overflows; mine dewatering wastewaters; cooling waters, heated effluents or surface runoff from disturbed earthen areas that contain mine refuse, chemical spillage, other wastes, or acid producing material.

i) **Prohibition on Non-Storm Water Discharges**. All discharges covered by this special condition shall be composed entirely of storm water except for:

discharges from fire fighting activities; fire hydrant flushings; waters used to control dust on vehicle traffic areas outside the mine area and mined area; potable water sources including uncontaminated waterline flushings; irrigation drainages; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; condensate from refrigerants; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents. These non-storm water discharges must comply with Special Condition 19 (b) (ii) (D) (ii) (3).

ii) **Storm Water Pollution Prevention Plans**

A storm water pollution prevention plan shall be developed for surface runoff from each mining site covered by this special condition. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity at a mining site. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with industrial activity at a mining site and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

(A) **Deadlines for Plan Preparation and Compliance.**

The plan shall:

(i) Be completed prior to the start of the mining activities to be covered under this special condition and updated as appropriate; and

(ii) Provide for compliance with the terms and schedule of the plan beginning with the initiation of mining activities.

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(B) **Signature, Plan Review and Notification.**

(i) The plan shall be signed in accordance with Standard Condition 11 Attachment H (Signatory Requirements), and be retained on-site at the facility which generates the storm water discharge in accordance with Standard Condition 8 Attachment H (Duty to Provide Information) of this permit.

(ii) The permittee shall make plans available upon request from this Agency or a local agency approving sediment and erosion plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity at a mining site which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.

(iii) The Agency may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this special condition. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this part. Within 30 days from receipt of notification from the Agency, the permittee shall make the required changes to the plan and shall submit to the Agency a written certification that the requested changes have been made. Failure to comply shall terminate authorization under this special condition.

(iv) All storm water pollution prevention plans required under this permit are considered reports that shall be available to the public at any reasonable time upon request. However, the permittee may claim any portion of a storm water pollution prevention plan as confidential in accordance with 40 CFR Part 2, including any portion describing facility security measures.

(C) **Keeping Plans Current.** The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the United States and which has not otherwise been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Special Condition 19 (b) (ii) (D) (ii) below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with mining activities. Amendments to the plan may be reviewed by the Agency in the same manner as Special Condition 19 (b) (ii) (B) (ii) above.

(D) **Contents of Plan.** The storm water pollution prevention plan shall include the following items:

(i) **Site Description.** Each plan shall, provide a description of the following:

1. A description of the intended sequence of major activities which disturb soils for major portions of the site (e.g. grubbing, excavation, grading);

2. Estimates of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;

3. An estimate of the runoff coefficient of the site after mining activities are completed and existing data describing the soil or the quality of any discharge from the site;

4. A site map indicating drainage patterns and approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, an outline of storm water drainage areas for each storm water discharge point, paved areas and buildings, locations where storm water is discharged to a surface water, and identification of those areas where construction or mining activities will occur within 50 feet from Waters of the United States;

5. Description of the areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.

   a. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

   b. Surface water locations and/or municipal storm drain locations;

   c. Areas of existing and potential soil erosion;

   d. Vehicle service areas;

   e. Material loading, unloading, and access areas.

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6. A narrative description of the following:

   a. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;

   b. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

   c. Industrial storm water discharge treatment facilities;

   d. Methods of onsite storage and disposal of significant materials;

   e. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities;

   f. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings;

   g. A summary of existing sampling data describing pollutants in storm water discharges;

   h. The name of the receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site.

(ii) **Controls.** Each plan shall include a description of appropriate controls that will be implemented at the mining site. The plan will clearly describe for each major activity identified in Special Condition 19 (b) (ii) (D) (i) (1) above, appropriate controls and the timing during the mining process that the controls will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). All stormwater pollution controls shall be installed and operational prior to any construction or mining activities. If infeasible, controls shall be installed and operational as soon as practicable. All stormwater controls described in the SWPPP shall be installed and made operational as soon as conditions on each portion of the site allows. The description of controls shall address as appropriate the following minimum components:

1. Erosion and Sediment Controls.

   a. Stabilization Practices. A description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the plan. Except as provided in paragraphs i and ii below, stabilization measures shall be initiated as soon as practicable in portions of the site where mining activities have temporarily or permanently ceased, but in no case more than 7 days after the mining activities in that portion of the site has temporarily or permanently ceased.

      i. Where the initiation of stabilization measures by the 7th day after mining activities temporarily or permanently cease is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

      ii. Where mining activities will resume on a portion of the site within 14 days from when activities ceased, (e.g. the total time period that mining activities is temporarily ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after mining activities temporarily ceased.

   b. Structural Practices. A description of structural practices to the degree attainable, to divert flows from disturbed earthen areas, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

   c. Best Management Practices for Impaired Waters. For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing for suspended solids, turbidity, or siltation, the

storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations or the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

d. Dust Control. A description of how the generation of dust will be minimized through the appropriate application of water or other dust suppression techniques. If a permit for dust control is required from the Agency Bureau of Air (BOA), provide information regarding any dust control requirements to be utilized by the facility. You may contact the BOA Permit Section at 217-785-1705 regarding BOA requirements.

e. Steep Slopes. A description of how disturbances of steep slopes (slopes greater than 15%) are minimized. When disturbances of steep slopes are necessary, a description of the erosion and sediment controls used to minimize erosion.

2. Storm Water Management. A description of measures that will be installed during mining to control pollutants in storm water discharges that will occur after mining operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the mining activities have been completed and the site has undergone final stabilization. Permittees are responsible for only the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity at a mining site have been eliminated from the site.

a. Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The storm water pollution prevention plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed predevelopment levels.

b. Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of mining activities).

c. Unless otherwise specified in the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

d. For any storm water discharges from construction or mining activities within 50 feet of a Waters of the United States, except for activities for water-dependent structures authorized by a Section 404 permit, the permittee shall:

i. Provide a 50-foot undisturbed natural buffer between the construction or mining activity and the Waters of the United States; or

ii. Provide additional erosion and sediment controls within that area.

e. Other Controls.

i. No solid materials, including building materials, shall be discharged to Waters of the United States, except as authorized by a Section 404 permit.

ii. The plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

f. Pollution Prevention Practices

i. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.

ii. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and

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testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

iii. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.

iv. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

v. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;

Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;

Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;

Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges;

Storm Water Diversion - Storm water diversion away from mining excavation, materials processing, materials storage and other areas of potential storm water contamination;

Covered Storage, Processing or Mining Areas - Covered fueling operations; materials processing and storage areas to prevent contact with storm water.

vi. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

vii. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

3. Verification of Non-Storm Water Discharges - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include a description of any tests for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible. Except as provided in Special Condition 19 (b) (i), discharges not comprised entirely of storm water are not authorized by this Special Condition.

4. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

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5. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.

6. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

7. Facilities which discharge storm water associated with industrial activity at a mining site to municipal separate storm sewers may also be subject to additional requirements imposed by the operator of the municipal system.

8. Approved State or Local Plans.

   a. The management practices, controls and other provisions contained in the storm water pollution prevention plan must be at least as protective as the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, 2016. Facilities which discharge storm water associated with industrial activities at a mining site must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials. Requirements specified in sediment and erosion site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in a storm water pollution prevention plan required under this permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the mining site.

   b. Dischargers seeking alternative permit requirements are not authorized by this permit and shall submit an individual permit application in accordance with 40 CFR 122.26 and Subtitle D; Mine Related Pollution at the following address, along with a description of why requirements in approved local plans or permits should not be applicable as a condition of an NPDES permit:

      Illinois Environmental Protection Agency
      Division of Water Pollution Control
      Permit Section #15
      1021 North Grand Avenue East
      Post Office Box 19276
      Springfield, Illinois 62794-9276

(iii) **Maintenance.** A description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan. Whenever it is determined that a stormwater control requires maintenance to continue operating effectively, efforts to fix the problem shall be initiated immediately and such work shall be completed as soon as practicable.

(iv) **Inspections.** Qualified personnel (provided by the permittee) shall inspect disturbed areas of the mining site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site annually. Qualified personnel means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer or other knowledgeable person who possesses the skills to assess conditions at the mining site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the mining activities.

   1. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

   2. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with Special Condition 19 (b) (ii) (D) (i) (Site Description) of this permit and pollution prevention measures identified in the plan in accordance with Special Condition 19 (b) (ii) (D) (ii) (Controls) of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 30 calendar days following the inspection.

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3. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Special Condition 19 (b) (ii) (D) (iv) 2 above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. The report shall be signed in accordance with standard conditions Attachment H (Signatory Requirements) of this permit.

4. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

5. All reports of noncompliance shall be signed by a responsible authority as defined in standard conditions Attachment H (Signatory Requirements).

6. All reports of noncompliance shall be mailed to the Agency at the following address:
   Illinois Environmental Protection Agency
   Compliance Assurance Section
   1021 North Grand Avenue East
   Post Office Box 19276
   Springfield, Illinois 62794-9276

(v) **Non-Storm Water Discharges** - Except for flows from fire fighting activities, sources of non-storm water listed in Special Condition 19 (b) (i) that are combined with storm water discharges associated with industrial activity at a mining site must be identified in the plan. The plan shall identify and insure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

iii) **Benchmark Monitoring.**

For Storm Water Discharges that are not directed to Non-Coal Outfalls, this permit specifies pollutant benchmark concentrations that are applicable to certain subsectors as specified Table 1 below. Benchmark monitoring data are primarily for the Permittee' s use to determine the overall effectiveness of specific control measures and to assist Permittees in knowing when additional corrective action(s) may be necessary to comply with the discharge limitations of this permit.

Table 1

Subsector (You may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
Subsector J1. Sand and Gravel Mining (SIC 1442, 1446)	Total Suspended Solids (TSS)	100 mg/L
Subsector J2. Dimension and Crushed Stone and Nonmetallic Minerals (except fuels) (SIC 1411, 1422-1429, 1481, 1499)	Total Suspended Solids (TSS)	100 mg/L

(A) The benchmark concentrations are not discharge limitations. However, corrective action is required as the result of a benchmark exceedance pursuant to Part (iv) "Corrective Actions" below.

(B) At the Permittee's discretion, more than four samples may be taken during separate runoff events and used to determine the average benchmark parameter concentration for facility discharges.

(C) Applicability of Benchmark Monitoring: The Permittee must monitor for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities, applicable to the discharge. Industry-specific benchmark concentrations are listed in Table 1 above.

(D) Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which sampling is required.

(E) Benchmark Monitoring Schedule. Benchmark monitoring must be conducted quarterly for the first four full quarters of permit coverage commencing no later than 180 days after the coverage letter date for this permit.

Special Conditions

(i) Data not exceeding benchmarks: After collection of four quarterly samples, if the average of the four monitoring values for any parameter does not exceed the benchmark, monitoring requirements for that parameter for the permit term have been fulfilled;

(ii) Data exceeding benchmarks: After the collection of four quarterly samples, if the average of the four monitoring values for any parameter exceeds the benchmark, the Permittee must, in accordance with Part (iv) "Corrective Actions" below, review the selection, design, installation and implementation of the control measures to determine if modifications are necessary to meet the discharge limitations in this permit, and either:

1. Make the necessary modifications and continue quarterly monitoring until the Permittee has completed four additional quarters of monitoring for which the average does not exceed the benchmark; or

2. Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology discharge limitations or are necessary to meet the discharge limitations of this permit, in which case the Permittee must continue monitoring once per year. The Permittee must also document the rationale for concluding that no further pollutant reductions are achievable, and retain all records related to this documentation with the SWPPP.

3. In accordance with Part (iv) "Corrective Actions" below, the Permittee must review the control measures and perform any required corrective action immediately (or document why no corrective action is required), without waiting for the full four quarters of monitoring data, if an exceedance of the four quarter average is mathematically certain. If after modifying its control measures and conducting four additional quarters of monitoring, the average still exceeds the benchmark (or if an exceedance of the benchmark by the four quarter average is mathematically certain prior to conducting the full four additional quarters of monitoring), the Permittee must again review its control measures and take one of the two actions above.

(iii) Natural background pollutant levels. Following the first four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data, see above), if the average concentration of a pollutant exceeds a benchmark value, and the Permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, the Permittee is not required to perform corrective action or additional benchmark monitoring provided that:

1. The average concentration of the benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background;

2. The Permittee document and maintain with the SWPPP, the supporting rationale for concluding that the benchmark exceedances are in fact attributable solely to natural background pollutant levels. The Permittee must include in the rationale any data previously collected by the Permittee or other sources (i.e., literature studies) that describe the level of natural background pollutants in the storm water discharge; and

3. Notify the Agency on the Permitee's final quarterly benchmark monitoring report that the benchmark exceedances are attributable solely to natural background pollutant levels.

4. Permittees may discontinue monitoring natural background pollutants that occur solely from run-on sources provided the Permittee analyzes the pollutant in the run-on source during the benchmark monitoring period.

(F) Representative Outfalls – If the Permittee's facility has two or more outfalls that are believed to discharge substantially identical effluents, based on similarities of the mining activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the Permittee may conduct benchmark monitoring of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).

iv) **Corrective Actions**. Conditions Requiring SWPPP Review and Revision.

(A) The Permittee must review the SWPPP when any of the following conditions occur:

(i) An unauthorized release or discharge (e.g., spill, leak, or discharge of non-storm water not authorized by this or another NPDES permit) occurs at the facility;

(ii) Control measures are not stringent enough for the discharge to meet applicable water quality standards or the conditions of this permit;

(iii) A required control measure was never installed, was installed incorrectly, or not in accordance with this permit or is not being properly operated or maintained;

(iv) Visual observations indicate signs of storm water pollution (e.g., unnatural color, odor, turbidity, floatable material, settled solids, suspended solids, foam, and oil sheen);

(v) The average of four quarterly sampling results exceeds any applicable benchmark monitoring concentration. If less than four samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than four times the benchmark monitoring concentration) this is considered a benchmark exceedance, triggering this review;

(vi) Construction or a change in design, operation, or maintenance at the facility that modifies the type or concentration of pollutants discharged in storm water from the facility, or increases the quantity of pollutants discharged.

(B) **Corrective Actions and Deadlines.**

(i) Immediate Actions. If any condition in Part (iv) "Corrective Actions" (A) above occurs, the Permittee must immediately take all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

(ii) Subsequent Actions. If the Permittee determines that additional changes are necessary beyond those implemented pursuant to this permit, it must install a new or modified control and make it operational, or complete the repair, before the next storm event if possible, and within 14 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 14 calendar days, the Permittee must document why it is infeasible to complete the installation or repair within the 14 day timeframe. The Permittee must also identify the schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery.

Where the Permittee's corrective actions result in changes to any of the controls or procedures documented in its SWPPP, the Permittee must modify its SWPPP accordingly within 14 calendar days of completing corrective action work.

(C) **Corrective Action Documentation.** The Permittee must document the existence of any of the conditions listed in Part (iv) "Corrective Actions" (A) above within 24 hours of becoming aware of such condition. The Permittee is not required to submit its corrective action documentation to Illinois EPA. Include the following information in the documentation:

(i) Identification and description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to Waters of the United States, through storm water or otherwise;

(ii) Date the condition was identified;

(iii) For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases; and

(iv) The Permittee must also document the corrective actions taken that occurred as a result of the conditions listed in Part (iv) "Corrective Actions" (A) above, within 14 days from the time of discovery of any of those conditions. Provide the dates when each corrective action was initiated and completed (or is expected to be completed). If applicable, document why it is infeasible to complete necessary installations or repairs within the 14-day timeframe and document the Permittee's schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe.

(D) **Substantially Identical Outfalls.** If the event triggering corrective action is similar to an outfall that represents other substantially identical outfalls, the Permittee's review must assess the need for corrective action for each outfall represented by the outfall that triggered the review. Any necessary changes to control measures that affect these other outfalls must also be made before the next storm event if possible, or as soon as practicable following that storm event. The SWPPP must be modified to include any additional control measures required pursuant to this paragraph.

SPECIAL CONDITION 20: Oil and Hazardous Substance Liability: Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the CWA.

Special Conditions

SPECIAL CONDITION 21: Prohibited Storm Water Discharges: This permit is not applicable to storm water discharges from the following facilities:

a. Hazardous waste treatment, storage or disposal facilities.

b. Storm water discharges associated with inactive mining occurring on Federal lands where an operator cannot be identified.

c. Storm water discharges that the Agency determines are not appropriately covered by this general permit.

SPECIAL CONDITION 22: Oil and Hazardous Substance Discharge Prohibition: This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill, and does not supersede any reporting requirements for spills or releases of hazardous substances or oil.

SPECIAL CONDITION 23: Bulk Storage and Hazardous Waste Containment Area: Provisions for handling storm water from bulk storage and hazardous waste containment areas.

a. This permit does not authorize the discharge of storm water collected in containment areas at bulk storage and hazardous waste facilities where the storm water becomes contaminated by direct contact with a spill or release of stored materials into the containment area. Such storm water should be handled properly by on-site treatment or hauling off-site for treatment and disposal.

b. Where a spill or release to a dry containment area occurs, the permittee shall institute procedures to clean up the spill in order to prevent contamination of any storm water, which subsequently collects in the containment area. Where these procedures are followed, collected storm water may be discharged; following visual inspection to assure that the storm water contains no unnatural turbidity, color, oil films, foams, settleable solids, or deposits.

c. Storage piles of salt used for deicing or other commercial or industrial purposes must be enclosed or covered to prevent exposure to precipitation (except for exposure resulting from adding or removing materials from the pile). Piles do not need to be enclosed or covered where storm water from the pile is not discharged to Waters of the United States or the discharges from the piles are authorized under another permit.

SPECIAL CONDITION 24: Discharges into Receiving Waters With an Approved Total Maximum Daily Load (TMDL):

a. Existing dischargers, new dischargers and new sources: you must carefully document the justifications for all BMP selections in your SWPPP, and install, implement and maintain BMPs that are consistent with all relevant TMDL allocations and with all relevant conditions in an implementation plan.

b. Discharges to waters for which there is a TMDL allocation for sediment or a parameter that addresses sediment (such as total suspended solids, turbidity, or siltation) are not eligible for coverage under this permit unless the owner/operator develops and certifies a SWPPP that is consistent with the assumptions and requirements in the approved TMDL. To be eligible for coverage under this general permit, operators must incorporate into their SWPPP any conditions and/or Best Management Practices applicable to their discharges necessary for consistency with the assumptions and requirements of the TMDL within any timeframes established in the TMDL. If a specific numeric wasteload allocation has been established that would apply to the facility's discharges, the operator must incorporate that allocation into its SWPPP and implement necessary steps to meet that allocation.

Please refer to the Agency website at:
http://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/pages/reports.aspx#cas

SPECIAL CONDITION 25: Reporting: The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection required by Special Condition 19 (b) (ii) (D) (ii) (4) and the results of the inspections required by (b) (ii) (D) (iv) and of the Storm Water Pollution Prevention Plan of this permit. The report shall include, at a minimum, a review and update of the SWPPP. The Permittee shall submit modifications of the requirements of the plan to the Agency with the Annual Report. Permittees have 180 days to update their SWPPP to comply with the new requirements and then submit with the following annual report. The report shall also include any benchmark monitoring data required by Special Condition 19(b)(iii) and discussion of any corrective actions taken as a result of the benchmark monitoring. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).

a. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

Special Conditions

b. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

c. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

d. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section, Mail Code #19
Annual Inspection Report
P.O. Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 26: Permit Applicability: This permit is not applicable to discharges to any receiving waters identified under 35 Ill. Adm. Code 302.105 (d) (6).

SPECIAL CONDITION 27: Reopener: This permit may be modified to include different discharge limitations or other requirements which are consistent with applicable laws, regulations, or judicial orders. The Agency will public notice the permit modification.

SPECIAL CONDITION 28: Water Quality: Discharges covered by this permit, alone or in combination with other sources, shall not cause or contribute to a violation of any applicable water quality standard.

SPECIAL CONDITION 29: Heated Effluents and Cooling Water Discharges: Discharges of heated effluents and cooling waters must meet the water quality provisions of 35 Ill. Adm. Code Subtitle C for temperature.

The permittee with heated effluents or cooling water discharges shall develop a heated effluent and cooling water plan. The plan is incorporated as a condition of this permit and shall contain the following:

i) Identification of each internal heated effluent and cooling water wastestream at the mining site,

ii) All temperature monitoring data of the cooling waters or heated effluents within the last five years or that represents proposed temperature conditions,

iii) The daily average flow (MGD) of each internal heated effluent and cooling water wastestream;

iv) The mean detention time of each heated effluent and cooling water wastestream in any impoundments on the mining site,

v) Description and identification of any facilities such as impoundments that attenuate or treat heated effluent and cooling water wastestreams,

vi) The daily average flow (MGD) for each outfall that contains heated effluent or cooling water, and

vii) The predicted temperature increase of the receiving stream caused by the discharge.

SPECIAL CONDITION 30: Acceptance of materials

The permittee shall comply with the requirements of Sections 3.160 and 22.51 of the Illinois Environmental Protection Act and regulations adopted thereunder for the acceptance of clean construction or demolition debris. Discharges of waters that contact clean construction or demolition debris shall be routed to the non-coal outfalls, meet the effluent limits, sampling and monitoring requirements of this permit for non-coal outfalls and the water quality provisions of Special Condition 28 of this permit. The abandonment plan shall conform to Sections 3.160 and 22.51 of the Illinois Environmental Protection Act and regulations thereunder and Bureau of Land (BOL) authorizations for the acceptance of clean construction or demolition debris. If the abandonment plan must be modified to meet the BOL requirements the modified abandonment plan shall be submitted to the Bureau of Water for approval prior to implementation.

SPECIAL CONDITION 31: Continuation of the permit

Special Conditions

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedures Act and remain in force and effect. Any permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

a. The Permittee submits a notice of termination and that notice is approved by the IEPA; or

b. The Permittee is authorized for coverage under an individual permit or the renewed or reissued General Permit; or

c. The Permittee's application for an individual NPDES permit for a discharge or Notice of Intent for coverage under the renewed or reissued General Permit is denied by the IEPA; or

d. IEPA issues a formal permit decision not to renew or reissue this General Permit at which time you must seek coverage under an alternative general permit or an individual permit.

The permittee shall submit a revised or updated NOI to the Agency no later than 180 days prior to the expiration date of this permit in order for permit coverage to be administratively continued.

SPECIAL CONDITION 32: Asphalt Concrete Plant Discharge Limitations:

There shall be no discharge of pollutants from asphalt concrete production to Waters of the United States.

SPECIAL CONDITION 33: Definitions:

"Asphalt Concrete Plant" means a facility that mixes aggregate and asphalt binder materials to form a composite material for construction projects.

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Commencement of Mining" - The initial disturbance of soils associated with clearing, grading, or excavating activities or other mining activities.

"Concrete Mix Plant" means a facility that mixes aggregate and binder materials to form a composite material for construction projects. Asphalt Concrete Plants are not concrete mix plants.

"Cooling water" means mine process wastewater that is used for cooling of mining operations and is contaminated with heat. Heated effluent and cooling water that contains cleaning chemicals, pesticides or treatment chemicals used to clean or treat the piping, equipment or discharge of the cooling system are not covered by this permit.

"Cooling water outfalls" means point sources that discharge cooling waters or heated effluents.

"CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.)

"Director" means the Director of the Illinois Environmental Protection Agency or an authorized representative.

"EPCRA" means the Emergency Planning and Community Right-to-Know Act (also known as Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986).

"Final Stabilization" means that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% cover for unpaved areas and areas not covered by permanent structures has been established or equivalent stabilization measures (such as the use of riprap, gabions or geotextiles) have been employed.

"Heated effluent" means mine process wastewater or industrial wastewater contaminated with heat from mining operations.

"Mine Area or Mined Area" means the surface and subsurface land where mining has occurred or is occurring. The term does not include the unmined surface land directly above underground mine workings which is not otherwise disturbed by mining activities.

"Mine Process Wastewater or Process Wastewater" means waters used for or generated from: cooling of mining and mine processing equipment; mineral processing plants; cleaning mining and mining processing equipment; air emission controls (e.g., dust control); pit pumpage; pit overflows; mine dewatering; sedimentation ponds; or surface runoff from disturbed areas that contain mine refuse; chemical spillage; other wastes or acid producing materials.

Special Conditions

"Mining" means the surface or underground extraction or processing of natural deposits of, gravel, sand or stone by the use of any mechanical operation or process. The term also includes the recovery or processing of the minerals from a mine refuse area. It does not include drilling for oil or natural gas.

"Mining Activities" means all activities on a facility which are directly in furtherance of mining, including activities before, during and after mining. The term does not include land acquisition, exploratory drilling, surveying and similar activities. The term includes, but is not limited to, the following:

a. Preparation of land for mining activities;

b. Construction of mine related facilities which could generate refuse, result in a discharge or have the potential to cause water pollution;

c. Ownership or control of a mine related facility;

d. Ownership or control of a coal storage yard or transfer facility;

e. Generation or disposal of mine refuse;

f. Mining;

g. Opening a mine;

h. Production of a mine discharge or non-point source mine discharge;

i. Surface drainage control; and

j. Use of acid-producing mine refuse.

"Municipal Separate Storm Sewer" means (as defined at 40 CFR 122.26(b)(8)) a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of the CWA that discharges to waters of the United States; (ii) Designed or used for collecting or conveying storm water; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

"NOI" means notice of intent to be covered by this permit (see special condition 14 of this permit).

"Non-coal Outfalls" means point sources that discharge mine dewatering waters, process wastewaters, industrial wastewater, pit pumpage or pit overflows.

"Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, mine discharge, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

"Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (see 40 CFR 302.4).

"Storm Water" means storm water runoff, snow melt runoff, surface runoff and drainage.

"Storm Water Discharges" means discharges that contain only storm water.

"Storm Water Associated with Industrial Activity at a Mining Site" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at a

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Special Conditions

"**Storm Water Associated with Industrial Activity at a Mining Site**" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at a mining site. The term does not include discharges from facilities or activities excluded from the NPDES program. For the categories of mining sites identified in subparagraphs (i), (ii), and (iii) of this subsection definition, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the purposes of this paragraph, material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally or municipally owned or operated) that meet the description of the facilities listed in this paragraph (i), (ii), and (iii) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity at a mining site" for purposes of this definition:

i) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(l)) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator;

ii) Construction activity including clearing, grading, and excavation activities that disturbs land area at a mining site.

iii) Asphalt concrete plant or concrete mix plant on the mining site.

"**Waters**" mean all accumulations of water, surface and underground, natural, and artificial, public and private, or parts thereof, which are wholly or partially within, flow through, or border upon the State of Illinois, except that sewers and treatment works are not included except as specially mentioned; provided, that nothing herein contained shall authorize the use of natural or otherwise protected waters as sewers or treatment works except that in-stream aeration under Agency permit is allowable.

Note that additional definitions are included in the permit Standard Conditions, Attachment H.

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Special Conditions

Construction Authorization

The facility is an existing, approximately 147.7 acre limestone quarry and processing plant, designated as Lafarge Aggregates Illinois, Inc., Conco Stone, located in Section 10, T38N, R8E of the 3rd P.M. in Kane County, Illinois near North Aurora. Quarry operations include the blasting, crushing, screening, sizing, washing and stockpiling of limestone aggregate. Process wastewater from the washing and dust separation system is recycled through a closed circuit system of settling ponds. Makeup water for the washing and dust separation system are obtained from the Fox River via a 700 GPM pump. Quarry operations result in a maximum discharge rate of 1.9 MGD, of groundwater seepage and stormwater runoff at Outfall 001 to an unnamed tributary of the Fox River.

Storm Water Pollution Prevention Plan: Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit. Discharging sedimentation ponds are not covered under the Storm Water Pollution Prevention Plan authorization, unless they discharge to a non-coal outfall specifically identified in a construction authorization under this permit.

This Authorization is issued subject to the following condition(s).

a. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.

b. Plans and specifications of all treatment equipment being included as a part of the storm water management practices shall be included in the SWPPP.

c. Any modification of or deviation from the plans and specifications in the initial SWPPP requires amendment of the SWPPP.

d. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of land area must meet the conditions of this permit.

Attachment H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) **Duty to comply**. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.

(2) **Duty to reapply**. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) **Need to halt or reduce activity not a defense**. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) **Duty to mitigate**. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) **Proper operation and maintenance**. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions**. This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights**. This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information**. The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry**. The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records

must be kept under the conditions of this permit;
(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**
(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.
(c) Records of monitoring information shall include:
(1) The date, exact place, and time of sampling or measurements;
(2) The individual(s) who performed the sampling or measurements;
(3) The date(s) analyses were performed;
(4) The individual(s) who performed the analyses;
(5) The analytical techniques or methods used; and
(6) The results of such analyses.
(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.
(a) **Application.** All permit applications shall be signed as follows:
(1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation:
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
(b) **Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:
(1) The authorization is made in writing by a person described in paragraph (a); and
(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and
(3) The written authorization is submitted to the Agency.
(c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
(d) **Certification.** Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(12) **Reporting requirements.**
(a) **Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.
Notice is required when:
(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or
(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).
(3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
(b) **Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
(c) **Transfers.** This permit is not transferable to any person except after notice to the Agency.
(d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
(e) **Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.
(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(f) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(2) Any upset which exceeds any effluent limitation in the permit.

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.

(g) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).

(h) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) **Bypass.**

(a) Definitions.

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

(b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).

(c) Notice.

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).

(d) Prohibition of bypass.

(1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(iii) The permittee submitted notices as required under paragraph (13)(c).

(2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).

(14) **Upset.**

(a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated; and

(3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).

(4) The permittee complied with any remedial measures required under paragraph (4).

(d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

(15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:

(a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

(b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically transferred to a new permittee if:

(1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(2) The notice includes a written agreement between the existing and new permittees containing a specified date

for transfer of permit responsibility, coverage and liability between the existing and new permittees; and

(3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;

(b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(Rev. 7-9-2010 bah)

(19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.
Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).

(23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

(24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

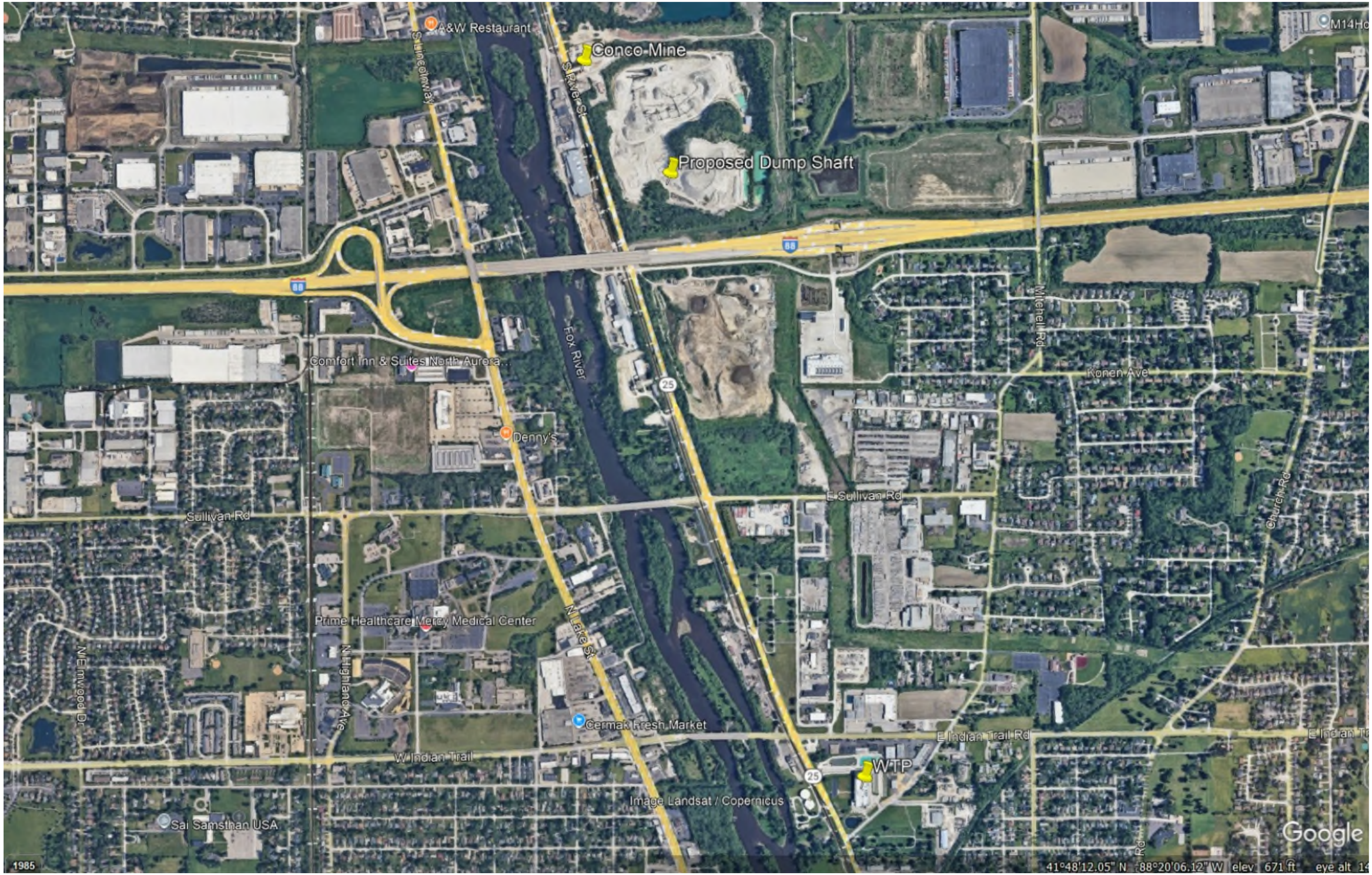
(25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.

(28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

EXHIBIT 13



LRM1464

EXHIBIT 13

EXHIBIT 14

CHEMICAL ANALYSIS 2023

	ANALYTE	UNITS	DRINK. WATER REGULATORY LIMIT	JANUARY 10			FEBRUARY			MARCH			APRIL			MAY			JUNE		
				RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED
1	ALKALINITY, TOTAL (CaCO3)	mg/L		270	292	110							219	266	61						
2	ALUMINUM, ICP *	mg/L	0.05 - 0.2	<0.10	<0.10	<0.10							1.23	<0.10	<0.10						
3	ANTIMONY ED 1/17/94	mg/L	0.006	<0.006	<0.006	<0.006							<0.006	<0.006	<0.006						
4	ARSENIC, AA SDWA 1/23/2006	mg/L	0.01	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
5	BARIUM, ICP	mg/L	2.0	0.113	0.120	0.012							0.078	0.161	0.013						
6	BERYLLIUM, ICP ED 1/17/94	mg/L	0.004	<0.004	<0.004	<0.004							<0.004	<0.004	<0.004						
7	BORON, ICP P	mg/L	0.6/1.0	0.08	0.27	0.180							<0.05	0.45	0.18						
8	CADMIUM, ICP SDWA 7/30/92	mg/L	0.005	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
9	CALCIUM, AA	mg/L		85.2	80.6	13.2							79.0	63.5	16.5						
10	CHLORIDE	mg/L	250.0	107.0	65.9	106.0							103.0	75.3	103.0						
11	CHROMIUM, ICP SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
12	COBALT, ICP	mg/L		<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
13	CONDUCTIVITY	umhos/cm		779	494	527							717	540	437						
14	COPPER, ICP SDWA 7/30/92	mg/L	1.3	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
15	CYANIDE,TOTAL (AS FREE CYANIDE)	mg/L	0.2	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
16	FLUORIDE (4.OO PPM)	mg/L	0.70	0.30	0.67	0.72							0.19	0.92	0.62						
17	HARDNESS Ca	mg/L		204	166	48							155	141	41						
18	HARDNESS, TOTAL	mg/L		370	264	172							300	250	108						
19	IRON, ICP S	mg/L	0.3	0.10	0.66	<0.05							1.88	<0.05	<0.05						
20	LEAD, GFAA SDWA 7/30/92	mg/L	0.015	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
21	MAGNESIUM, AA	mg/L		45.9	33.9	30.7							32.5	24.6	15.3						
22	MANGANESE, ICP S	mg/L	0.05	0.016	0.028	<0.005							0.11	0.008	<0.005						
23	NICKEL, ICP ED 1/17/94	mg/L	0.10	<0.005	<0.005	<0.005							0.008	<0.005	<0.005						
24	NITROGEN - AMMONIA	mg/L		0.04	0.48	0.67							0.09	0.58	0.81						
25	NITRATE + NITRITE , AS NITROGEN	mg/L	10	2.47	0.17	0.510							2.03	0.17	1.64						
26	pH	UNITS		8.25	7.29	9.15							8.18	7.44	9.21						
27	POTASSIUM, AA	mg/L		6.0	9.9	7.700							4.2	13.7	7.5						
28	SELENIUM, AA SDWA 7/30/92	mg/L	0.05	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
29	SILICA	mg/L		6	4	5							3	8	2						
30	SILVER, ICP * SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
31	SODIUM, AA	mg/L		109	40.7	82.300							59	29.9	53.2						
32	SOLIDS, TOTAL DISSOLVED	mg/L	500	444	282	300							409	308	249						
33	STRONTIUM, ICP	mg/L		0.700	1.49	0.240							0.310	2.23	0.270						
34	SULFATE	mg/L	250	58	49	43							34	35	33						
35	THALLIUM	mg/L	0.002	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
36	TOC	mg/l		4.70		1.40							6.5		1.5						
37	TURBIDITY	NTU	0.3	4.1	0.68	0.020							19.7	1.55	0.03						
38	UV254	cm-1		0.161	0.004	0.040							0.250	0.006	0.04						
39	VANADIUM, ICP	mg/L		<0.01	<0.01	<0.01							<0.01	<0.01	<0.01						
40	ZINC, ICP P	mg/L	5	<0.010	<0.010	<0.010							0.013	<0.010	<0.010						
41	TOTAL TRIHALOMETHANES (FW)	ug/L	80.0			27.2			21.7			26.0			23.8			41.1			41.5
42	Bromodichloromethane	ug/L				7.9			6.2			6.6			8.1			9.7			8.5
43	Bromoform	ug/L				0.6			1.0			2.1			0.8			2.8			4.8
44	Dibromochlormethane	ug/L				4.0			4.4			6.3			5.2			9.3			10.0
45	Chloroform	ug/L				14.7			10.1			11.0			17.8			19.3			18.2
46	TOTAL TRIHALOMETHANES (MPS)	ug/L	80.0			22.6			24.6			29.0			23.1			33.3			28.1
47	Bromodichloromethane	ug/L				6.8			7.2			7.7			6.1			8.2			7.0
48	Bromoform	ug/L				0.8			2.1			2.3			0.8			2.6			1.7
49	Dibromochlormethane	ug/L				4.0			5.7			8.5			4.4			8.6			6.4
50	Chloroform	ug/L				11.0			9.6			10.5			11.8			13.9			13.0

TESTING LAB- EUROFINS

*Secondary Maximum Contaminant Level

D-Deferred
ED-Effective Date
P-Proposed

S-State of Illinois Only
**IN-HOUSE
Total THM FW (MPS)

EXHIBIT 14

PG 2 OF 2 JULY THRU DECEMBER

CHEMICAL ANALYSIS 2023

	ANALYTE	UNITS	DRINK. WATER REGULATORY LIMIT	11-Jul			AUGUST			SEPTEMBER			10-Oct			NOVEMBER			DECEMBER		
				RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED
1	ALKALINITY, TOTAL (CaCO3)	mg/L		207	307	53							225	269	60						
2	ALUMINUM, ICP *	mg/L	0.05 - 0.2	0.15	<0.10	<0.10							<0.10	<0.10	<0.10						
4	ANTIMONY ED 1/17/94	mg/L	0.006	<0.006	<0.006	<0.006							<0.006	<0.006	<0.006						
5	ARSENIC, AA SDWA 1/23/2006	mg/L	0.01	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
6	BARIUM, ICP	mg/L	2.0	0.105	0.172	0.025							0.114	0.150	0.014						
7	BERYLLIUM, ICP ED 1/17/94	mg/L	0.004	<0.004	<0.004	<0.004							<0.004	<0.004	<0.004						
8	BORON, ICP P	mg/L	0.6/1.0	0.07	0.36	0.13							0.1	0.37	0.22						
10	CADMIUM, ICP SDWA 7/30/92	mg/L	0.005	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
11	CALCIUM, AA	mg/L		59.9	61.4	19.1							55.8	57.2	10.8						
12	CHLORIDE	mg/L	250	133	96.5	119							115	70.3	111						
13	CHROMIUM, ICP SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
14	COBALT, ICP	mg/L		<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
15	CONDUCTIVITY	umhos/cm		1035	922	682							951	533	504						
16	COPPER, ICP SDWA 7/30/92	mg/L	1.3	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
17	CYANIDE,TOTAL (AS FREE CYANIDE)	mg/L	0.2	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
18	FLUORIDE (4.OO PPM)	mg/L	0.7	0.29	0.91	0.63							0.251	0.912	0.667						
19	HARDNESS Ca	mg/L		139	178	51							163	144	29						
20	HARDNESS, TOTAL	mg/L		271	328	109							309	250	105						
21	IRON, ICP S	mg/L	0.3	0.31	0.07	<0.05							0.50	<0.25	<0.25						
22	LEAD, GFAA SDWA 7/30/92	mg/L	0.015	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
23	MAGNESIUM, AA	mg/L		32.9	22.7	10.2							39.9	23	18.8						
24	MANGANESE, ICP S	mg/L	0.05	0.053	0.007	<0.005							0.031	0.006	<0.005						
26	NICKEL, ICP ED 1/17/94	mg/L	0.10	<0.005	<0.005	<0.005							0.006	<0.005	<0.005						
27	NITROGEN - AMMONIA	mg/L		0.04	0.48	0.70							0.08	0.55	0.6						
	FREE AMMONIA	mg/L				0.04									0						
28	NITRATE + NITRITE, AS NITROGEN	mg/L	10	0.48	<0.10	<0.10							<0.10	<0.10	<0.10						
29	pH	UNITS		8.39	7.34	8.94							8.21	7.58	9.05						
30	POTASSIUM, AA	mg/L		4.9	13.2	7.5							6.1	12.1	9.8						
31	SELENIUM, AA SDWA 7/30/92	mg/L	0.05	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
32	SILICA	mg/L		15.0	3	10							14	5	11						
33	SILVER, ICP * SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
34	SODIUM, AA	mg/L		80.5	26.1	65.4							99.0	25.0	65.2						
35	SOLIDS, TOTAL DISSOLVED	mg/L	500	590	526	389							655	368	324						
36	STRONTIUM, ICP	mg/L		0.360	2.30	0.350							0.590	2.16	0.310						
37	SULFATE	mg/L	250	42	30	31							43	28	37						
38	THALLIUM	mg/L	0.002	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
39	TOC	mg/l		6.4		1.1							6		1.2						
40	TURBIDITY	NTU	0.3	7.54	5.19	0.03							3.77	0.22	0.02						
41	UV254	cm-1		0.192	0.054	0.039							0.165	0.005	0.032						
42	VANADIUM, ICP	mg/L		<0.01	<0.01	<0.01							<0.01	<0.01	<0.01						
43	ZINC, ICP P	mg/L	5	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
44	TOTAL TRIHALOMETHANES (FW)	ug/L	80			43.3			33.1			38.8			28.3			30.0			25.4
45	Bromodichloromethane	ug/L				10.2			7.2			8.9			6.1			7.6			6.6
46	Bromoform	ug/L				1.7			1.4			2.6			2.8			2.7			1.0
47	Chlorodibromomethane	ug/L				7.6			5.7			7.5			5.9			7.1			4.3
48	Chloroform	ug/L				23.8			18.8			19.8			13.5			12.6			13.5
49	TOTAL TRIHALOMETHANES (MPS)	ug/L	80			24.0			20.2			36.8			25.7			25.3			19.1
50	Bromodichloromethane	ug/L				6.1			4.7			8.7			5.5			6.0			5.2
51	Bromoform	ug/L				1.3			1.2			2.9			3.9			4.0			1.1
52	Chlorodibromomethane	ug/L				5.2			4.3			8.2			6.8			7.1			4.4
53	Chloroform	ug/L				11.4			10			17			9.5			8.2			8.4
	TESTING LAB-																				

*Secondary Maximum Contaminant Level

D-Deferred

ED-Effective Date

P-Proposed

S-State of Illinois Only

**IN-HOUSE pH

Total THM FW (MPS)

LRM1467

EXHIBIT 15

2024 Page 1 of 2, Jan. thru June

CHEMICAL ANALYSIS 2024

	ANALYTE	UNITS	DRINK. WATER REGULATORY LIMIT	JANUARY 9			FEBRUARY			MARCH			APRIL			MAY			JUNE		
				RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED
1	ALKALINITY, TOTAL (CaCO3)	mg/L		266	288	80							200	297	57						
2	ALUMINUM, ICP *	mg/L	0.05 - 0.2	0.17	<0.10	<0.10							1.05	<0.10	<0.10						
3	ANTIMONY ED 1/17/94	mg/L	0.006	<0.006	<0.006	<0.006							<0.006	<0.006	<0.006						
4	ARSENIC, AA SDWA 1/23/2006	mg/L	0.01	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
5	BARIUM, ICP	mg/L	2.0	0.134	0.131	0.007							0.06	0.112	0.012						
6	BERYLLIUM, ICP ED 1/17/94	mg/L	0.004	<0.004	<0.004	<0.004							<0.004	<0.004	<0.004						
7	BORON, ICP P	mg/L	0.6/1.0	0.07	0.3	0.220							<0.05	0.27	0.17						
8	CADMIUM, ICP SDWA 7/30/92	mg/L	0.005	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
9	CALCIUM, AA	mg/L		80.0	76.6	9.4							58.9	75.3	13.8						
10	CHLORIDE	mg/L	250.0	115.0	102.0	118.0							84.0	84.0	84.0						
11	CHROMIUM, ICP SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
12	COBALT, ICP	mg/L		<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
13	CONDUCTIVITY	umhos/cm		955	699	576							696	868	478						
14	COPPER, ICP SDWA 7/30/92	mg/L	1.3	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
15	CYANIDE,TOTAL (AS FREE CYANIDE)	mg/L	0.2	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
16	FLUORIDE (4.OO PPM)	mg/L	0.70	0.26	0.80	0.69							0.26	0.88	0.63						
17	HARDNESS Ca	mg/L		144	173	50							164	177	41						
18	HARDNESS, TOTAL	mg/L		320	311	159							276	340	115						
19	IRON, ICP S	mg/L	0.3	0.41	0.12	<0.05							1.48	<0.05	<0.05						
20	LEAD, GFAA SDWA 7/30/92	mg/L	0.015	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
21	MAGNESIUM, AA	mg/L		44.8	35.6	32.2							25.7	32.6	<0.005						
22	MANGANESE, ICP S	mg/L	0.05	0.083	0.022	<0.005							0.067	0.026	<0.005						
23	NICKEL, ICP ED 1/17/94	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
24	NITROGEN - AMMONIA	mg/L		0.00	0.68	0.59							0.08	0.55	0.61						
25	NITRATE + NITRITE , AS NITROGEN	mg/L	10	3.04	<0.10	1.300							<0.10	<0.10	<0.10						
26	pH	UNITS		8.29	7.21	9.04							8.11	7.32	9.05						
27	POTASSIUM, AA	mg/L		6.0	11.3	9.400							3.1	9.6	6.9						
28	SELENIUM, AA SDWA 7/30/92	mg/L	0.05	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
29	SILICA	mg/L		0	9	4							0	7	2						
30	SILVER, ICP * SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
31	SODIUM, AA	mg/L		96.2	45.6	64.100							44.5	53.3	50.7						
32	SOLIDS, TOTAL DISSOLVED	mg/L	500	544	398	328							397	495	273						
33	STRONTIUM, ICP	mg/L		0.540	1.54	<0.10							0.200	1.24	0.220						
34	SULFATE	mg/L	250	53	45	46							46	40	29						
35	THALLIUM	mg/L	0.002	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
36	TOC	mg/l		5.00		1.10							6.7		1.1						
37	TURBIDITY	NTU	0.3	2.21	3.71	0.030							14.1	2.24	0.03						
38	UV254	cm-1		0.163	0.031	0.046							0.280	0.038	0.039						
39	VANADIUM, ICP	mg/L		<0.01	<0.01	<0.01							<0.01	<0.01	<0.01						
40	ZINC, ICP P	mg/L	5	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
41	TOTAL TRIHALOMETHANES (FW)	ug/L	80.0			28.7			32.4			42.1			25.9			36.2			43.0
42	Bromodichloromethane	ug/L				7.1			8.5			10.3			6.6			9.2			11.3
43	Bromoform	ug/L				3.2			0.9			4.2			2.8			1.4			<0.5
44	Dibromochlormethane	ug/L				7.0			4.4			10.4			6.9			6.3			5.9
45	Chloroform	ug/L				11.4			18.6			17.2			16.2			19.3			25.8
46	TOTAL TRIHALOMETHANES (MPS)	ug/L	80.0			31.1			28.8			41.6			24.9			37.9			41.6
47	Bromodichloromethane	ug/L				7.4			7.4			9.5			6.7			8.9			9.5
48	Bromoform	ug/L				3.9			2.2			6.2			<0.5			<0.5			<0.5
49	Dibromochlormethane	ug/L				7.8			6.7			11.3			5.2			4.9			5.8
50	Chloroform	ug/L				12.0			12.5			14.6			13.0			24.1			26.3

TESTING LAB- EUROFINS

*Secondary Maximum Contaminant Level

D-Deferred
ED-Effective Date
P-Proposed

S-State of Illinois Only
**IN-HOUSE
Total THM FW (MPS)

EXHIBIT 15

PG 2 OF 2 JULY THRU DECEMBER

CHEMICAL ANALYSIS 2023

	ANALYTE	UNITS	DRINK. WATER REGULATORY LIMIT	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
				RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED	RIVER	WELL	FINISHED
1	ALKALINITY, TOTAL (CaCO3)	mg/L		237	262	52							206	261	57						
2	ALUMINUM, ICP *	mg/L	0.05 - 0.2	0.15	<0.10	<0.10							0.13	<0.10	<0.10						
4	ANTIMONY ED 1/17/94	mg/L	0.006	<0.006	<0.006	<0.006							<0.006	<0.006	<0.006						
5	ARSENIC, AA SDWA 1/23/2006	mg/L	0.01	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
6	BARIUM, ICP	mg/L	2.0	0.084	0.18	0.017							0.107	0.112	0.018						
7	BERYLLIUM, ICP ED 1/17/94	mg/L	0.004	<0.004	<0.004	<0.004							<0.004	<0.004	<0.004						
8	BORON, ICP P	mg/L	0.6/1.0	0.06	0.39	0.11							0.08	0.24	0.11						
10	CADMIUM, ICP SDWA 7/30/92	mg/L	0.005	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
11	CALCIUM, AA	mg/L		57.3	57.8	16.2							52.2	82.7	17.8						
12	CHLORIDE	mg/L	250	109	8.63	94.9							179	33.8	155						
13	CHROMIUM, ICP SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
14	COBALT, ICP	mg/L		<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
15	CONDUCTIVITY	umhos/cm		849	603	497							905	600	622						
16	COPPER, ICP SDWA 7/30/92	mg/L	1.3	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
17	CYANIDE,TOTAL (AS FREE CYANIDE)	mg/L	0.2	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
18	FLUORIDE (4.OO PPM)	mg/L	0.7			0.70							0.298	0.689	0.663						
19	HARDNESS Ca	mg/L		151	145	42							167	144	46						
20	HARDNESS, TOTAL	mg/L		284	260	88							287	276	115						
21	IRON, ICP S	mg/L	0.3	0.29	<0.05	<0.05							0.50	<0.25	<0.25						
22	LEAD, GFAA SDWA 7/30/92	mg/L	0.015	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
23	MAGNESIUM, AA	mg/L		31.4	22.3	9.5							39	37.1	17.3						
24	MANGANESE, ICP S	mg/L	0.05	0.041	<0.005	<0.005							0.094	0.023	<0.005						
26	NICKEL, ICP ED 1/17/94	mg/L	0.10	<0.005	<0.005	<0.005							0.018	<0.005	<0.005						
27	NITROGEN - AMMONIA	mg/L		0.03	0.28	0.63							0.03	0.55	0.82						
	FREE AMMONIA	mg/L				0.06									0.04						
28	NITRATE + NITRITE, AS NITROGEN	mg/L	10	0.89	<0.10	0.93							0.45	0.12	0.19						
29	pH	UNITS		8.05	7.35	8.91							8.29	7.4	8.98						
30	POTASSIUM, AA	mg/L		3.5	13.0	5.7							5.7	8.2	6.8						
31	SELENIUM, AA SDWA 7/30/92	mg/L	0.05	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
32	SILICA	mg/L											9	7	6						
33	SILVER, ICP * SDWA 7/30/92	mg/L	0.10	<0.005	<0.005	<0.005							<0.005	<0.005	<0.005						
34	SODIUM, AA	mg/L		56.8	23.4	49.4							86.2	45.5	71.4						
35	SOLIDS, TOTAL DISSOLVED	mg/L	500	485	344	283							515	342	354						
36	STRONTIUM, ICP	mg/L		0.320	2.29	0.250							0.390	1.20	0.260						
37	SULFATE	mg/L	250			20							40	57	42						
38	THALLIUM	mg/L	0.002	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
39	TOC	mg/l		6.2		1.7							6		1.4						
40	TURBIDITY	NTU	0.3	10.45	4.58	0.03							18.8	1.23	0						
41	UV254	cm-1		0.249	0.007	0.048							0.171	0.011	0.041						
42	VANADIUM, ICP	mg/L		<0.01	<0.01	<0.01							<0.01	<0.01	<0.01						
43	ZINC, ICP P	mg/L	5	<0.010	<0.010	<0.010							<0.010	<0.010	<0.010						
44	TOTAL TRIHALOMETHANES (FW)	ug/L	80			50.2			53.4			35			33.1			34.5			29.4
45	Bromodichloromethane	ug/L				11.8			13			8.4			8.2			8.9			7.7
46	Bromoform	ug/L				<0.5			1			1.1			0.9			2.9			1.0
47	Chlorodibromomethane	ug/L				5.1			7.2			5.2			5.0			9.4			4.9
48	Chloroform	ug/L				33.3			32.2			20.3			19.0			13.3			15.8
49	TOTAL TRIHALOMETHANES (MPS)	ug/L	80			36.5			38.1			34.2			23.1			42.0			31.2
50	Bromodichloromethane	ug/L				8.6			9.3			8.5			8.0			10.4			7.5
51	Bromoform	ug/L				<0.05			0.7			1.3			1.0			5.9			1.6
52	Chlorodibromomethane	ug/L				4			5.7			5.3			5.4			10.9			5.7
53	Chloroform	ug/L				23.9			22.4			19.1			8.7			14.8			16.4
	TESTING LAB-		No inhouse samples were collected.																		

*Secondary Maximum Contaminant Level

D-Deferred

ED-Effective Date

P-Proposed

S-State of Illinois Only

**IN-HOUSE pH

Total THM FW (MPS)

LRM1470

EXHIBIT 16

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2025-72329 **PERMIT NO.:** 2025-SC-72329

BUREAU ID: W0890050002

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:** APR 18 2025

PREPARED BY: City of Aurora

SUBJECT: CITY OF AURORA - Land application of Water Treatment Plant Lime Sludge

PERMITTEE TO OPERATE

City of Aurora
44 East Downer Pl.
Aurora, Illinois 60505-3302

Permit is hereby granted to the above designated permittee(s) to operate water pollution control facilities described as follows:

Application of approximately 15,200 dry tons per year of water treatment plant sludge to agricultural lands at rates necessary for the pH adjustment of the soil.

This operating permit expires on March 31, 2030.

This permit renews and replaces Permit Number 2020-SC-65501 which was previously issued for the herein permitted facilities.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: Sludge applied to land under this permit shall comply with 32 Ill. Adm. Code 330.40(d).

SPECIAL CONDITION 2: Sludge, which is to be land applied shall be sampled for radium on an annual basis. The resulting data shall be submitted to both the Illinois Environmental Protection Agency and the Illinois Emergency Management Agency. Data shall be submitted to the Illinois Emergency Management Agency at the following address:

Illinois Emergency Management Agency
Attn: Treatment Residuals Exemption
1035 Outer Park Drive
Springfield, Illinois 62704

SPECIAL CONDITION 3: For the duration of this permit, the permittee shall determine the quantity of sludge produced by the treatment facility in dry tons or gallons with a percent total solids analysis. The permittee shall maintain adequate records of the quantities of sludge produced and have said records available for Agency inspection. The permittee shall submit to the Agency a semi-annual summary report of the quantities of sludge generated and disposed (in units of dry tons) by different disposal methods including but not limited to application on farmland, application on reclamation land,

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

DEL:KPM:MEL:2025-72329.docx

DIVISION OF WATER POLLUTION CONTROL

cc: Illinois Emergency Management Agency
Records - Industrial

Darin E. LeCrone, P.E.
Manager, Permit Section

LRM1472

EXHIBIT 16

LOG NUMBERS: 2025-72329 **PERMIT NO.:** 2025-SC-72329

BUREAU ID: W0890050002

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:** APR 18 2025

PREPARED BY: City of Aurora

SUBJECT: CITY OF AURORA - Land application of Water Treatment Plant Lime Sludge

landfilling, public distribution, dedicated land disposal, sod farms, storage lagoons or any other specified disposal method. Said reports shall be submitted to the Agency by January 31 and July 31 of each year reporting the preceding July through December and January through June sludge disposal operations respectively. The permittee shall submit the semi-annual sludge management report to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Mail Code #19
2520 West Iles Avenue
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 4: The permittee shall chemically analyze the water treatment plant sludge on an annual basis (or at the time of lagoon clean out) for the parameters specified below. A current sample of the water treatment plant sludge to be land applied must be chemically analyzed in accordance with the latest edition of Standard Methods for the Examination of Water and Wastewater for the following parameters pursuant to the Design Criteria for Sludge Application on Land, Section 391.501(d) and (e):

Metals (dry weight basis)	Other
Arsenic	% Total Solids
Barium	pH
Cadmium	% Calcium Carbonate Equivalent
Chromium (total)	
Copper	
Mercury	
Nickel	
Selenium	
Silver	
Zinc	

SPECIAL CONDITION 5: Water treatment plant sludge shall be managed and land applied as follows.

A. Sludge shall be applied to sites within the following guidelines:

1. Sludge shall not be applied to sites during precipitation.

2. Sludge shall not be applied to sites which are saturated or with ponded water.

3. Sludge shall not be applied to ice or snow covered sites.

4. Frozen land, which is not ice or snow covered and has a slope of 5% or less, may be used for land application of sludge provided a 200 foot grassy area exists between the sludge applied land and any surface water or potable water supply well.

LOG NUMBERS: 2025-72329 **PERMIT NO.:** 2025-SC-72329
BUREAU ID: W0890050002
FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:** APR 1 3 2025
PREPARED BY: City of Aurora

SUBJECT: CITY OF AURORA - Land application of Water Treatment Plant Lime Sludge

B. It is not recommended that sludge be applied to sites:

1. When precipitation is imminent,

2. Which have received greater than 1/4 inch rainfall within the 24-hour period preceding the intended sludge application time.

C. Sludge shall not be applied to land which lies within 200 feet from a community water supply well, potable water supply well, surface waters or intermittent streams or within one-fourth of a mile of any potable water supply wells located in consolidated bedrock such as limestone or sinkhole areas unless a 50 foot depth of non-sandy or non-gravelly unconsolidated material exists. In no case shall sludge be applied within 400 feet of a community water supply well deriving water from an unconfined shallow fractured or highly permeable bedrock formation or from an unconsolidated and unconfined sand and gravel formation.

D. Sludge shall not be applied any closer than 100 feet to an occupied dwelling.

E. Sludge shall be applied and incorporated into the site soils within the following guidelines:

1. Sludge may be surface applied without incorporation only if the site slope is less than 8% and the annual soil loss does not exceed 5 tons/acre as determined by the Universal Soil Loss Equation.

2. Sludge shall be incorporated if:

A) Site slope exceeds 8% but the annual soil loss is less than 5 tons/acre, or

B) Site slope is less than 8% but the annual soil loss exceeds 5 ton/acre.

3. Sludge shall not be applied to a site with slope greater than 8% with annual soil loss in excess of 5 ton/acre.

4. Unless surface application is allowed pursuant to this condition, or otherwise specified in this permit, sludge shall be incorporated within 48 hours of application or prior to any rainfall whichever is more restrictive.

F. Sludge application shall not exceed the following maximum metal loading rates over the lifetime of a site (pounds per acre).

1. Soils with 5-15 meq/100 grams Cation Exchange Capacity (CEC):

Metal	Total Loading	Annual Loading
Cadmium	10	2
Nickel	100	-
Copper	250	-
Zinc	500	-
Manganese	900	-
Lead	1000	

LOG NUMBERS: 2025-72329 **PERMIT NO.:** 2025-SC-72329

BUREAU ID: W0890050002

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:** APR

PREPARED BY: City of Aurora

SUBJECT: CITY OF AURORA - Land application of Water Treatment Plant Lime Sludge

2. Soils with 0-5 meq/100 grams CEC shall apply only half the metal loading rates set forth in item F(1) above.

3. Soils with 15 or greater meq/100 grams CEC may apply double the total metal loading rates set forth in item F(1) above, however a supplemental permit shall be required for that specific site.

G. Sludge stored off the treatment plant site shall be performed within the following guidelines:

1. Off-site interim storage of liquid sludge shall not be allowed.

2. Off-site interim storage of dried sludge in excess of 2 months shall not be allowed. In addition, measures shall be taken to contain runoff and leachate from any dried sludge that is stored.

3. Off-site stockpiling of sludge is prohibited from November 15 to March 1, unless such stockpiling occurs on sites specifically identified in an effective State Operating Permit as suitable for application on ice and/or snow covered ground.

4. Sludge stockpiled on sites not approved for winter application after November 15 shall be returned to the generating facility or moved to a site approved for application on ice and/or snow covered ground.

H. Users applying sludge to sites greater than 300 acres under common ownership or control or users of more than 1500 dry tons per year shall obtain a sludge user permit from this Agency unless the site is specifically identified in the permittee's application.

I. User information sheets, in conformance with the Design Criteria for Sludge Application on Land (Title 35, Subtitle C, Chapter II, Part 391), shall be provided by the permittee to all sludge users and shall be signed by sludge users requesting more than 25 cubic yards. Records regarding sludge users shall be retained by the permittee for the duration of this permit and 2 years after the expiration date of this permit.

J. No sooner than 90 days and no later than 7 days prior to the application of sludge to land written notice shall be provided to the owner(s) of the land receiving the sludge, the owners of land adjacent to the land receiving the sludge and the Township and County officials whose jurisdiction encompasses the sludge application site.

K. The permittee shall retain agronomic calculations and supporting sludge analyses for a period of not less than 5 years. Said sludge analyses shall be in compliance with 40 CFR 503.8 and 35 Ill. Adm. Code 391.501. Such records shall be available to any person or party upon request.

REDLINE OF PROPOSED RULE LANGUAGE

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER b: PERMITS

PART 706
PLACEMENT OF LIMESTONE RESIDUAL MATERIALS

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AUTHORITY: Implementing Section 22.63 and authorized by Sections 22.63, 27, and 28 of the Environmental Protection Act [415 ILCS 5/22.63, 27, and 28].

SOURCE: Adopted in R ___-___ at ___ Ill. Reg. ___, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 706.100 Purpose and Scope

a) The regulations in this Part set forth the requirements for the placement of limestone residual materials generated from the treatment of drinking water by a municipal utility in an underground limestone mine located in whole or in part within the municipality that operates the municipal utility. These rules are intended to implement the requirements of Section 22.63 of the Act.

b) This Part sets forth authorization requirements for a facility that receives limestone residual material generated from the treatment of drinking water by a municipal utility~~a publicly owned drinking water treatment plant~~ and permanently places the limestone residual material in the facility, which must be located in whole or in part within the municipality that operates the municipal utility.

Section 706.110 Definitions

Except as stated in this Section, the definition of words or terms in this Part shall be the same as those used in the Act.

"Act" means the Illinois Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Application" means the Agency forms for applying for authorization for permanent placement of LRM in a facility.

"Applicant" means the operator of the facility who applies for the authorization for placement of LRM as authorized by this Part.

"Authorization" means the approval by the Agency for the permanent placement of LRM in the facility.

"Board" means the Illinois Pollution Control Board.

"Environmental Protection Agency" or "EPA" or "USEPA" means the United States Environmental Protection Agency.

"Facility" means the location where any placement of LRM for permanent storage occurs (including land or appurtenances thereto) that is subject to this Part.

"Generator of LRM" or "generator" means the person who generates the LRM material, resulting from the treatment of drinking water at a publicly owned drinking water treatment plant.

"Limestone residual materials" or "LRM" means limestone residual generated from the treatment of drinking water at a publicly owned drinking water treatment plant [415 ILCS 5/22.63].

"Operator" means a person that operates the facility where the permanent placement of the LRM occurs.

"Person" means any individual, partnership, co-partnership, firm, company, corporation, association, joint stock company, trust, estate, political subdivision, municipality, state agency, or any other legal entity, or their legal representative, agency, or assigns.

"State" means the State of Illinois.

"Underground source of drinking water" or "USDW" has the same meaning as 35 Ill. Adm. Code 702.110.

Section 706.120 Incorporations by Reference

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions.

a) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," USEPA, SW-846 Update V, Revision 8 (July 2014)

b) "Handbook for Sampling and Sample Preservation of Water and Wastewater," USEPA, EPA-600/4-82-029 (Sept. 1982)

c) EML, DOE (EML is currently part of the DHS). 1997. "HASL-300 Method Ga-01-R: Gamma Radioassay." EML Procedures Manual, HASL-300, 28th Edition.

Section 706.130 Applicability of Other Regulations

Compliance with this Part does not affect the need for the operator to comply with all other applicable federal, state, tribal, or local laws or other requirements.

Section 706.140 Appeals and Review of Agency and Board Decisions

~~a)~~ Any final Agency decision on an application for authorization made pursuant to this Part, and any final Agency decision made as to modification or revocation of an issued authorization made pursuant to this Part, may be appealed to the Board pursuant to Section 40 of the Act and 35 Ill. Adm. Code 105.

~~b) Any final Board decision for review of a final Agency decision made pursuant to this Part may be appealed to the circuit court pursuant to Section 41 of the Act.~~

SUBPART B: PROHIBITIONS

Section 706.200 Prohibition Against Unauthorized Placement

a) Nothing in this Part prohibits otherwise authorized placement of LRM, including via land application as authorized by a permit pursuant to 35 Ill. Adm. Code 309.208.

b) Permanent ~~P~~placement ~~for permanent storage~~ of LRM in ~~the~~ a facility is prohibited unless an authorization has been issued pursuant to this Part.

SUBPART C: APPLICATION FOR AUTHORIZATION FOR PLACEMENT OF LRM

Section 706.300 Applying for Authorization

Any person that is required to have an authorization for permanent placement ~~for permanent storage~~ of LRM in a facility must complete, sign, and submit an application to the Agency as described in this Subpart.

Section 706.310 Who Applies

Any operator of the facility seeking an authorization under this Part must submit an application for authorization for placement of LRM to the Agency. The generator of LRM does not need to obtain an authorization for the placement of the LRM.

Section 706.320 Completeness

The Agency must not issue an authorization under this Part before receiving a complete application for authorization under this Part. An application for authorization under this Part is complete when the Agency receives an application ~~form~~ that contains the~~and any supplemental~~ information required by Section 706.340 ~~that is completed to its satisfaction~~.

Section 706.330 Time to Apply

Any person that applies for an authorization must submit an application to the Agency within a reasonable time before permanent placement of LRM is expected to begin.

Section 706.340 Information Requirements

An application for authorization for placement of LRM must provide the following information to the Agency, using the application form provided by the Agency. The application form shall require:

a) The activities to be conducted by the operator that require it to obtain an authorization, including a description of the planned means of conveyance by which the LRM is to be placed underground before being placed in the facility.

b) The name, mailing address, and location of the facility for which the application is submitted. This includes the name and address of a legal contact person for the facility owner, operator, and the generator of the LRM.

c) The operator's and generator's name, address, telephone number, ownership status, and status as Federal, State, private, public, or other entity.

d) An application for authorization must contain a facility location map on the most recent United States Geological Survey (USGS) quadrangle of the area from the 7 ½ minute series (topographic) that clearly shows the following information:

1) The facility boundaries and all adjacent property extending at least 1000 meters (3300 feet) beyond the facility boundaries;

2) All surface waters within 1000 meters (3300 feet) of the facility boundaries;

3) All potable water supply wells and community water supply wells within 1000 meters (3300 feet) of the facility boundaries;

4) All potable water supply well and community water supply well setback zones established pursuant to Section 14.1, 14.2 or 14.3 of the Act;

5) Any wellhead protection areas pursuant to Section 1428 of the Safe Drinking Water Act (SDWA) (42 USC 300f) and any sole source aquifer designated by the USEPA pursuant to Section 1424(e) of SDWA; and

6) All main service corridors, transportation routes, and access roads to the facility.

e) A brief description of the nature of the business of the operator and the planned placement of LRM.

f) A demonstration that the authorization will not endanger drinking water sources. A demonstration may include any monitoring or other information which indicates that the permanent placement of LRM in the facility will not cause an endangerment to underground sources of drinking water; and

g) A list with the names and addresses for all owners of record of land within one-quarter mile (401 meters) of the facility boundary. This requirement may be waived by the Agency where the facility is located in a populous area such that the requirement would be impracticable.

h) ~~A copy of all analytical data of the LRM to be placed for permanent storage in the facility that is the subject of the authorization.~~Analytical testing data for the LRM that is representative of the material to be placed, consistent with the parameters identified in Section 706.470.

i) A certification, signed by the operator, certifying that the design of the facility complies with applicable state and federal mining regulations.

Section 706.350 Recordkeeping

An applicant must keep records of all data used to complete an application for authorization and any supplemental information submitted pursuant to this Part for a period of at least three years from the date the application is submitted to the Agency.

Section 706.360 Signatories to Applications for Authorization and Reports

a) An application for authorization must be signed as follows:

1) For a corporation: an application for authorization must be signed by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means either of the following persons:

A) A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person that performs similar policy or decision-making functions for the corporation; or

B) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

2) For a partnership or sole proprietorship: an application for authorization must be signed by a general partner or the proprietor, respectively; or

3) For a municipality, State, federal, or other public agency: an application for authorization must be signed by either a principal executive officer or ranking elected official. For purposes of this Section, a principal executive officer of a federal agency includes either of the following persons:

A) The chief executive officer of the agency, or

B) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA).

b) All reports required by an application for authorization or other information requested by the Agency must be signed by a person described in subsection (a), or by a duly authorized representative of that person. A person is a duly authorized representative only if each of the following conditions are fulfilled:

1) The authorization is made in writing by a person described in subsection (a);

2) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

3) The written authorization is submitted to the Agency.

c) Any person signing a document pursuant to subsection (a) or (b) must make the following certification:

> I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons that manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SUBPART D: CONDITIONS IN AN AUTHORIZATION FOR PLACEMENT OF LRM

Section 706.400 Conditions Applicable to all Authorizations

The conditions of this Subpart apply to authorizations for placement of LRM in a facility as authorized by this Part. All conditions applicable to authorizations must be incorporated into the authorizations either expressly or by reference. If incorporated by reference, a specific citation to these regulations must be given in the authorization.

Section 706.410 Duty to Comply

The operator must comply with all conditions of its authorization.

Section 706.420 Need to Halt or Reduce Activity Not a Defense

It will not be a defense for the operator in an enforcement action that it would have been necessary to halt or reduce the permanent placement of LRM in the facility in order to maintain compliance with the conditions of its authorization.

Section 706.430 Duty to Mitigate

The operator must take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with its authorization.

Section 706.440 Operation and Maintenance

The operator must at all times operate and maintain the facility in accordance with the authorization.

Section 706.450 Duty to Provide Information

The operator must furnish to the Agency, upon request, copies of records required to be kept by the authorization.

Section 706.460 Inspection and Entry

The operator must allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to do any of the following:

a) Enter at reasonable times upon the facility where permanent placement of LRM is located or conducted, or where records must be kept under the conditions of this authorization;

b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this authorization; and

c) Inspect at reasonable times the facility, facility equipment (including monitoring and control equipment), or practices or operations of the facility as regulated or required under this authorization.

Section 706.470 Annual Testing

The LRM to be placed in the facility shall be sampled and analyzed by the generator on an annual basis, following these procedures:

a) Radium 226 and Radium 228 shall be sampled in accordance with USEPA/USDOE radiochemical method GA-01-R, and the resulting data shall be submitted to both the Agency and the Illinois Emergency Management Agency.

b) TCLP Volatiles, TCLP Semi-Volatiles, TCLP Pesticides, TCLP Herbicides, and TCLP Metals, including Mercury, shall be sampled in accordance with paragraph (1) below and the resulting data shall be submitted to the Agency.

1) The generator shall perform annual testing of ~~Toxicity Characteristic Leaching Procedure (~~TCLP~~)~~ Volatiles, Semi-Volatiles, Pesticides, Herbicides and Metals in a manner consistent with USEPA publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" and "Handbook for Sampling and Sample Preservation of Water and Wastewater," USEPA, EPA-600/4-82-029 (incorporated by reference in Section 706.120).

c) The results of the testing required by paragraphs (a) and (b) of this Section must be submitted to the Agency in the annual report required by Section 706.500.

Section 706.480 Maintenance and Submission of Records

The Agency must include, as a condition to an authorization under this Part, a requirement that the operator must establish and maintain such records, make such reports, conduct such

monitoring, and provide such other information as the Agency deems necessary to determine whether the operator has ~~acted or is acting in compliance~~complied or is complying with the Act and Board regulations.

Section 706.490 Signature Requirements

All applications and reports submitted to the Agency must be signed and certified in accordance with Section 706.360.

Section 706.500 Reporting Requirements

a) The operator shall promptly notify the Agency within 14~~30~~ days of deviations from the conditions of the authorization. The deviation report shall contain at a minimum the following information:

1) Date and time of the deviation;

2) Nature of the deviation;

3) Duration of the event;

4) Probable cause of the deviation; and

5) Corrective actions or preventative measures taken.

b) By March 1st of each year, the operator must submit an annual report, for the prior year, to the Agency. The annual report must include:

1) ~~shall be submitted detailing~~ the annual quantity of LRM, in wet tons, placed into the facility; ~~and~~

2) ~~any~~ the results of chemical analyses required by the authorization, including the results of the annual testing pursuant to Section 706.470;~~.~~

3) ~~The annual report shall also include~~ a summary of the number of loads of LRM accepted and the number of loads rejected during the calendar year; and

4) ~~. Further, the annual report shall include~~ the annual facility map required pursuant to Section 706.710.

c) The authorization is not transferable to any person, except after notice to the Agency. The Agency may require modification of the authorization to change the name of the operator and incorporate such other requirements as may be necessary in accordance with the Act or this Part.

d) If the operator becomes aware that it failed to submit any relevant facts in an application for authorization or that it submitted incorrect information in an application for authorization or in any report to the Agency, the operator must promptly submit such facts or information to the Agency.

Section 706.510 Operating Requirements

The authorization must establish an estimated maximum volume of LRM to be placed for permanent storage in the facility, any requirements necessary to ensure that the LRM does not migrate into any USDW, and any other operating requirements necessary to ensure compliance with this Part.

Section 706.520 Duration of Authorization

The authorization for placement of LRM as authorized by this Part shall have an indefinite term.

Section 706.530 Procedures for Cessation of Placement of LRM at an Authorized Facility

a) An operator may cease placement of LRM in the facility at any time. Cessation of placement of LRM does not mean that the operator needs to cease other operations at the facility, only that the operator needs to cease placement of LRM in the facility.

b) Notice of cessation of placement of LRM at the facility by the operator shall be given to the Agency within 14 days after cessation of placement of LRM at the facility, which shall include a description of the operator's future use or abandonment of the conveyance.

Section 706.540 Financial Responsibility

a) The operator is required to demonstrate and maintain financial responsibility and resources to cease the underground placement of LRM in the facility in a manner prescribed by the Agency until one of the following occurs:

1) The facility has followed the procedures for cessation of placement of LRM in accordance with Section 706.530; or

2) The transferor of an authorization has received notice from the Agency that the operator receiving transfer of the authorization (the new operator) has demonstrated financial responsibility for the facility.

b) The operator must show evidence of financial responsibility to the Agency by the submission of a surety bond or other adequate assurance, such as financial statements or other materials acceptable to the Agency. The Agency may on a periodic basis require the holder of an authorization to submit an estimate of the

resources needed to cease placement of LRM revised to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary.

SUBPART E: ISSUED AUTHORIZATION FOR PLACEMENT OF LRM

Section 706.600 Effect of an Authorization

a) The existence of an authorization does not constitute a defense to a violation of the Act, except for violations alleging operation without an authorization.

b) The issuance of an authorization does not authorize injury to persons or property or invasion of other private rights, nor does issuance authorize any infringement of State or local law or regulations.

Section 706.610 Modification

a) An operator may seek to modify its authorization by submitting a modification request to the Agency.

b) The Agency shall approve any modification to an authorization that ~~is consistent~~ complies with this Part, including, but not limited to, a transfer of an authorization to a new operator.

c) The Agency shall take final action on a complete request for modification within 90 days, unless additional time is reasonably necessary due to the complexity of the request, in which case the Agency shall notify the operator in writing and provide an estimated timeline for final action.

Section 706.620 Revocation

The Agency may seek revocation of an authorization and the Board will revoke an authorization in accordance with Title VIII of the Environmental Protection Act for the following causes: ~~if it determines that~~

a) T~~t~~he permanent placement of LRM in the facility endangers human health or the environment and can only be regulated to acceptable levels by authorization modification, reissuance, or revocation;~~.~~

b) The operator's or generator's violation of Part 706;

c) Noncompliance by the operator with any condition of the authorization; or

d) The operator's failure in the application or during the authorization issuance process to disclose fully all relevant facts, or the operator's misrepresentation of any relevant facts at any time.

SUBPART F: DESIGN AND OPERATIONAL REQUIREMENTS

Section 706.700 Design of the Facility

The design of the facility should comply with relevant mining regulations, as applicable.

Section 706.710 Annual Facility Map

The operator must maintain an annual facility map that indicates where the LRM has been placed within the facility in the proceeding calendar year.

Section 706.720 Operational Standards

a) Acceptance of LRM. The operator may only accept LRM generated by a generator included within the authorization granted by the Agency or any modification to the authorization.

b) Placement of LRM. LRM must be placed in a safe manner that protects human health and the environment in ~~conformance with the provisions of the Act and the regulations adopted under the Act~~ compliance with the requirements of this Part.

c) Size of Working Face. The working face of the facility must be no larger than is necessary, based on the underground mine and equipment used in LRM placement, to conduct operations in a manner in ~~conformance with the provisions of the Act and the regulations adopted under the Act~~ compliance with the requirements of this Part.

d) Quantity of LRM. The quantity of LRM, in wet tons, received and placed into the mine shall be recorded daily.

~~e) Sampling of LRM. The LRM to be placed in the facility shall be sampled and analyzed by the generator on an annual basis, following these procedures:~~

~~1) Radium 226 and Radium 228 shall be sampled in accordance with USEPA/USDOE radiochemical method GA-01-R, and the resulting data shall be submitted to both the Agency and the Illinois Emergency Management Agency.~~

~~2) TCLP Volatiles, TCLP Semi-Volatiles, TCLP Pesticides, TCLP Herbicides, and TCLP Metals, including Mercury, shall be sampled in accordance with Section 706.470 of this Part and the resulting data shall be submitted to the Agency.~~

~~e~~f) Equipment. Equipment must be maintained and available for use at the facility during all hours of operation, so as to achieve and maintain compliance with the requirements of this Part.

~~f~~g) Utilities. ~~All utilities, including, but not limited to, heat, lights, power, and communications equipment, necessary for safe operation in compliance with the requirements of this Part must be available at the facility at all times.~~The operator must ensure that utilities necessary for the safe placement of LRM are operational during all periods of active placement. If such utilities become unavailable, the operator must cease placement until service is restored.

~~g~~h) Maintenance. The operator must maintain and operate all systems and related appurtenances and structures in a manner that facilitates proper operations in compliance with this Part. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, adequate laboratory and process controls, and appropriate quality assurance procedures. This subsection requires the operation of backups, auxiliary facilities, or similar systems used only when necessary to achieve compliance with the condition of the ~~permit~~authorization.

~~h~~i) Dust Control. The operator must implement methods for controlling dust to minimize off-site wind dispersal of particulate matter.

~~i~~j) Noise Control. The facility must be designed, constructed, and maintained to minimize the level of equipment noise audible outside the site. The facility must not cause or contribute to a violation of the Board's noise regulations or Section 24 of the Act.

~~j~~k) LRM Placement Area. The operator must place the LRM in the mine cavity below the ground surface.

~~k~~l) Mud Tracking. The operator must implement methods to minimize tracking of mud by hauling vehicles onto public roadways.

~~l~~m) Odor and Nuisance. The permanent storage of LRM in the facility shall be performed in a manner which minimizes the emission of foul odors or other nuisances to any nearby residents.

~~m~~n) Visual Inspection. The operator shall visually inspect the working face where LRM has been placed as well as any lower chambers, if any, immediately below where LRM has been placed in the facility.

~~n~~o) Integrity and Structural Stability of Facility. The operator shall ensure the integrity of the mine prior to, during, and after placement of LRM in the mine.

~~o~~p) Unintentional Off-Site Migration. The operator shall ensure that the placement of LRM in the mine does not result in unintentional off-site migration.

pq) Groundwater Monitoring. Monitoring of groundwater is not required, unless the Agency subsequently determines after an authorization has been granted any of the following:

1) The LRM is deemed to be hazardous pursuant to federal Resource, Conservation, and Recovery Act (RCRA),

2) The Agency acquires new information on the geology of the facility that may cause or contribute to an adverse impact on groundwater quality, or

Section 706.730 Load Verification

a) In each load delivered to the facility, the operator must determine the quantity of LRM, in wet tons, and verify that the LRM has been generated by the generator approved from the authorization.

b) If material other than LRM is found in the delivery of loads of LRM, the operator must reject the load and ensure the proper disposal of the material.

c) The operator shall maintain records documenting the load verifications and shall retain these records for a period of at least three years from the date they are first created.

Section 706.740 Boundary Control

a) Unauthorized vehicular access to the working face of all active units and to all other areas within the boundaries of the facility must be restricted.

b) A permanent sign must be posted at the entrance to the facility or storage area stating that only LRM is accepted at the facility.