

**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

PARKER'S GAS AND MORE, INC.,)	
Petitioner,)	
)	
v.)	PCB 2019-079
)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

NOTICE

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

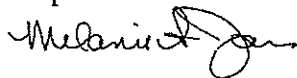
Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Patrick D. Shaw
Law Office of Patrick D. Shaw
80 Bellerive Road
Springfield, IL 62704
pdshaw1law@gmail.com

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board an **APPEARANCE**, the **ADMINISTRATIVE RECORD** and a **CERTIFICATE OF RECORD ON APPEAL**, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Melanie A. Jarvis
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Dated: October 22, 2020

**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

PARKER'S GAS AND MORE, INC.,)	
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ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

APPEARANCE

The undersigned, as one of its attorneys, hereby enters her Appearance on behalf of the Respondent, the Illinois Environmental Protection Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Melanie A. Jarvis
Assistant Counsel
Special Assistant Attorney General
Division of Legal Counsel
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Dated: October 22 2020

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

PARKER'S GAS AND MORE, INC.,)	
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v.)	PCB 2019-079
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ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

CERTIFICATE OF RECORD ON APPEAL

Pursuant to 35 Ill. Adm. Code 105.116(b) and 105.410, the following constitutes an index of documents comprising the record:

PAGES	DOCUMENT(S)	DATE
R0001-R0003	OSFM Eligibility Determination	July 18, 2007
R0004-R0214	Corrective Action Plan and Budget	February 13, 2015
R0215-R0217	IEPA Decision Letter	May 20, 2015
R0218-R0267	IEPA Reviewer Notes	September 28, 2018
R0268-R0356	Reimbursement Claim	August 13, 2018
R0357-R0482	Corrective Action Progress Report	August 21, 2018
R0483-R0489	IEPA Decision Letter	November 15, 2018

I, Brian Bauer, certify on information and belief that the entire record of the Respondent's decision, as defined in 35 Ill. Adm. Code 105.410(b), is hereby enclosed.

By: 
 Brian Bauer, Project Manager
 Leaking Underground Storage Tank Section
 Illinois Environmental Protection Agency

Date: 10-21-2020

This filing submitted on recycled paper.

CERTIFICATE OF SERVICE

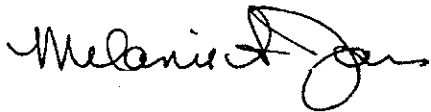
I, the undersigned attorney at law, hereby certify that on **October 22, 2020**, I served true and correct copies of an **APPEARANCE**, the **ADMINISTRATIVE RECORD** and a **CERTIFICATE OF RECORD ON APPEAL**, via the Board's COOL system and email, upon the following named persons:

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Patrick D. Shaw
Law Office of Patrick D. Shaw
80 Bellerive Road
Springfield, IL 62704
pdshaw1law@gmail.com

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Melanie A. Jarvis
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)



Office of the Illinois
State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

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JUL 23 2007

July 18, 2007

BY: DL

Parker's Gas and More
P.O. Box 236
Clayton, IL 62324

In Re: Facility No. 5-013158
IEMA Incident No. 95-1012
Parker Gas-N-More, Inc.
101 E Outerbelt Dr., Hwy. 24
P.O. Box 236
Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

- Tank 3 4,000 gallon Gasoline
- Tank 4 4,000 gallon Gasoline
- Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline
Tank 2 6,000 gallon Gasoline
Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

A handwritten signature in cursive script, appearing to read "Deanne Lock".

Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File



Environmental Group INC.

Waste Management and Remediation Services

0010105006 – Adams County
Parker's Gas & More Inc.
Incident # 951012
Leaking UST Technical File

February 13, 2015

Illinois Environmental Protection Agency
Bureau of Land
LUST Unit
P.O. Box 19276
Springfield, IL. 62794-9276

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

MAY 29 2015

REVIEWER: JKS

RE: LPC# 0010105006- Adams County
Parker's Gas & More/Clayton, IL
101 E Outer Belt Drive
IEMA # 951012

Ms. Valerie Davis:

Enclosed please find one original and one copy of the Corrective Action Plan & Budget for the above referenced site.

Should you have any questions or need additional information, please call Marvin Johnson of Chase Environmental Group, Inc. at 618.533.6740.

Sincerely,

Chase Environmental Group, Inc.

Kelly Tensmeyer, PG
Sr. Project Manager

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Corrective Action Plan & Free Product Removal Report

Parker's Gas & More
101 East Outer Belt Drive
Clayton, Illinois
Adams County
LPC# 0010105006
IEMA # 951012

CEG Project #F0908004

Prepared for:

Mr. Ted Parker
2970 North 2050th Ave
Clayton, IL 62324

By:

Chase Environmental Group, Inc.
PO Drawer AB
Centralia, IL 62801

January 2015

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0005



Electronic Filing: Received, Clerk's Office 10/23/2020
Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

**Leaking Underground Storage Tank Program
 Corrective Action Plan**

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
 Site Name: Parker's Gas & More
 Site Address (Not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams ZIP Code: 62324

B. Site Information

1. Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? Yes No
2. If yes, is the budget attached? Yes No
3. Is this an amended plan? Yes No
4. Identify the material(s) released: Gasoline, Diesel
5. This Corrective Action Plan is submitted pursuant to:
 - a. 35 Ill. Adm. Code 731.166
 The material released was:
 - petroleum
 - hazardous substance (see Environmental Protection Act Section 3.215)
 - b. 35 Ill. Adm. Code 732.404
 - c. 35 Ill. Adm. Code 734.335

C. Proposed Methods of Remediation

1. Soil Soil Abatement, Highway Authority Agreement, Land Use Restriction
2. Groundwater Existing Groundwater Ordinance

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
2. Analytical results, chain-of-custody forms, and laboratory certifications;
3. Tables comparing analytical results to applicable remediation objectives;

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4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls;
7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement).

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8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;
10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
11. A description of bench/pilot studies;
12. Cost comparison between proposed method of remediation and other methods of remediation;
13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a $\text{pH} \leq 2.0$ or ≥ 12.5 ; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.
2. A discussion of how any exposure pathways are to be excluded.

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G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Parker's Gas & More
Contact Ted Parker
Address 2970 North 2050th Avenue
City Clayton
State IL
Zip Code 62324
Phone 217-430-1130
Signature Ted Parker
Date 2/10/15

Consultant

Company Chase Environmental Group, Inc.
Contact Marvin Johnson
Address 418 South Poplar Street
City Centralia
State IL
Zip Code 62801
Phone 618/533-6740
Signature [Signature]
Date 2/11/15

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Kelly Tensmeyer
Company Chase Environmental Group, Inc.
Address 418 Soth Poplar Street
City Centralia
State IL
Zip Code 62801
Phone 618/533-6740
Ill. Registration No. 196-001293
License Expiration Date 03/31/2017
Signature Kelly L Tensmeyer
Date 2-12-15

L.P.E. or L.P.G. Seal



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Illinois Environmental Protection Agency

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The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

**Leaking Underground Storage Tank Program
 Free Product Removal**

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
 Site Name: Parker's Gas & More
 Site Address (Not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams ZIP Code: 62324

B. Information Provided

- 1. Free Product Removal Plan
- 2. Free Product Removal Budget
- 3. Free Product Removal Report

C. Free Product Removal

Provide the following:

- 1. The name(s) of the person(s) responsible for implementing the free product removal measures;
- 2. The estimated quantity, type, and thickness of free product observed or measured in boreholes, wells, excavation, etc.;
- 3. The type of free product recovery system used and technical justification for the method of recovery chosen;
- 4. Whether any discharge will take place on- or off-site during the recovery operation and where this discharge (point) will be located;
- 5. The type of treatment applied to, and the effluent quality expected from, any discharge;
- 6. The disposition of the recovered free product;
- 7. The steps that have been taken or that are being taken to obtain necessary permits for any discharge;
- 8. The steps taken to identify the source and extent of free product; and
- 9. A schedule of future activities necessary to complete the recovery of free product still exceeding one-eighth of an inch in depth.

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D. Supporting Documentation

Provide the following:

1. Site map meeting the requirements of 35 Ill. Adm. Code of 734.440 and showing:
 - a. Locations where free product was encountered including its estimated thickness;
 - b. Location of recovery points;
 - c. Location of the treatment unit; and
 - d. Location of discharge points;
2. A table showing the dates that free product recovery was conducted and the amount of free product recovered on each date; and
3. Copies of waste manifests.

E. Submission of a Free Product Removal Plan

In accordance with 35 Ill. Adm. Code 734.215, if free product removal activities will be conducted more than 45 days after confirmation of the presence of free product, the owner or operator must submit to the Illinois EPA for review a free product removal plan and budget, if applicable. The plan must include the information requested under Sections C and D of this form, as applicable.

F. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name Parker's Gas & More
 Contact Ted Parker
 Address 2970 North 2050th Avenue
 City Clayton
 State IL
 Zip Code 62324
 Phone 217-430-1130
 Signature *Ted Parker*
 Date 2-10-15

Consultant

Company Chase Environmental Group, Inc.
 Contact Marvin Johnson
 Address PO Box AB
 City Centralia
 State IL
 Zip Code 62801
 Phone 618-533-6740
 E-mail: mjohnson@chaseenv.com
 Signature *mj*
 Date 2/11/15

Continue onto next page.

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732, or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

L.P.E. or L.P.G. Seal

Name Kelly L. Tensmeyer
Company Chase Environmental Group, Inc.
Address PO Box AB
City Centralia
State IL
Zip Code 62801
Phone 618-533-6740
Ill. Registration No. 196-001293
License Expiration Date 03/31/2019
Signature Kelly L Tensmeyer
Date 2-12-15



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Corrective Action Plan & Free Product Removal Report
Parker's Gas & More, Inc.
101 E Outer Belt Drive
LPC# 0010105006
IEMA # 951012

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3. Tables comparing analytical results to applicable remediation objectives;..... 4

4. Boring logs; 4

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b. Monitoring well locations; and..... 5

c. Plumes of soil and groundwater contamination..... 5

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b. The scope of the problems to be addressed by the proposed corrective action; and 8

c. A schedule for implementation and completion of the plan;..... 9

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3. A description of the remedial technologies selected: 9

a. The feasibility of implementing the remedial technologies 11

b. Whether the remedial technologies will perform satisfactorily and reliable until the remediation objectives are achieved; and 12

c. A schedule of when the technologies are expected to achieve the applicable remediation objectives; 12

4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion; 13

5. A description of the current and projected future uses of the site; 13

6.	A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:	13
a.	An assessment of their long-term reliability;.....	13
b.	Operating and maintenance plans; and	14
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b.	Map(s) showing regulated recharge areas and wellhead protection areas;.....	14
c.	Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;.....	14
d.	Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;.....	14
e.	Tables listing the setback zone for each community water supply well and other potable water supply wells;.....	15
f.	A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and	15
g.	A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;.....	15
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12.	Cost comparison between proposed method of remediation and other methods of remediation;	16
13.	For the proposed Tier 2 or 3 remediation objectives, provide the following:	16
a.	The equations used;	16
b.	A discussion of how input variables were determined;.....	16
c.	Map(s) depicting distances used in equations; and.....	17
d.	Calculations; and	17
14.	Provide documentation to demonstrate the following for alternative technologies:	17

a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;..... 17

b. The proposed alternative technology will not adversely affect human health and safety or the environment; 17

c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;..... 17

d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met; 17

e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and 18

f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible..... 18

F. Exposure Pathway Exclusion 18

1. A description of the tests to be performed in determining whether the following requirements will be met:..... 18

a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants; 18

b. Soil saturation limit will not be exceeded for any of the organic contaminants..... 18

c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123; 19

d. Contaminated soils do not exhibit a pH ≤ 2.0 or ≥ 12.5 ; and 19

e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124. 19

2. A discussion of how any exposure pathways are to be excluded. 19

Tables

Table 1: Excavation Soil Analytical Summary

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**Corrective Action Plan & Free Product Removal Report
Parker's Gas & More, Inc.
101 E Outer Belt Drive
LPC# 0010105006
IEMA # 951012**

D. Soil and Groundwater Investigation Results

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;

The soil and groundwater investigation proposed in the Corrective Action Plan (CAP) approved by the Agency on May 14, 2009, was completed in March and April 2009. As a result of the investigation, the extent of petroleum contamination exceeding applicable Tier 1 Residential soil objectives and Class I Groundwater objectives resulting from IEMA #951012 has been delineated.

The 2009 investigation confirms soil and groundwater contamination exceeding applicable Tier 1 Residential soil objectives and Class I Groundwater Standards remains on-site, on adjoining properties east and south of the site and in the Outer Belt Drive Right of Way (ROW) adjoining the south property boundary.

Contaminant transport modeling (i.e., Leachate and R-26 modeling) included in the CAP submitted on November 11, 2011 indicated the potential migratory extent of groundwater contamination resulting from IEMA #951012 does not exceed the Clayton city limits. The models included in Appendix A have been revised to reflect various default values adjusted in 2013. As reported in 2011, revised contaminant transport modeling also indicates the potential migratory extent of groundwater contamination exceeding Class I Groundwater Standards will not exceed Clayton city limits. The City of Clayton groundwater ordinance (Ordinance No. 1-2009-2010) prohibiting the use of potable water supply wells within City Limits has been approved by the Illinois Environmental Protection Agency (IEPA) as appropriate for use as an Institutional Control. Upon completion of the soil abatement activities and the groundwater evaluation that will follow as proposed in this CAP, contaminant transport models will require revision to reflect the benefit to groundwater quality as a result of abating soil with contaminant concentrations exceeding applicable Soil Saturation Limits, site-specific soil objectives (Tier 2 Industrial/Commercial) and off-site (Tier 1 Residential) soil objectives.

In August 2013, an investigation was performed to identify areas in which soils with contaminant concentrations below applicable objectives overlie soils with contaminant concentrations exceeding the objectives (commonly referred to as overburden).

The investigation also included locating, reconditioning and sampling existing monitoring wells to determine current groundwater contaminant concentrations (the wells were last sampled on March 6, 2009).

The monitoring wells were located on August 12, 2013. It should be noted that monitoring wells MW-6, MW-7 and MW-8 have apparently been destroyed as a result of the 2006 soil abatement activities. These wells were not included in the March 6, 2009 groundwater sampling event and could not be located on August 12, 2013.

On August 13, 2013, fourteen (14) soil borings were advanced to investigate shallow soil within the area identified as the plume of soil contamination resulting from IEMA #951012. The August 13, 2013 boring locations are identified as OS-1 through OS-14 on the site maps included in this report. Based on the analytical results of soil samples collected during the August 2013 investigation, shallow soil in the vicinity of the OS-1 and OS-2 boring locations exceed site-specific Tier 2 Industrial/Commercial and/or Tier 2 Construction Worker Inhalation soil objectives. In addition, the total xylene concentration confirmed in the soil sample collected at boring location OS-2 exceeds the Tier 2 Soil Saturation Limit (Csat) for Outdoor Inhalation. Laboratory analyses confirmed contaminant concentrations below applicable soil objectives in samples collected at soil boring locations OS-3 through OS-14. As a result, overburden soil within 5' of the surface and with contaminant concentrations below applicable objectives has been confirmed adjacent to the Parker's Gas & More east property boundary and on the adjoining properties east (Residential) and south opposite Highway 24 (Clayton City Park).

In addition to the overburden investigation, monitoring wells were recondition on August 13, 2013 in preparation for groundwater sample collection. On this date, approximately 1" of free product was observed in the MW-21 monitoring well located off-site in the Clayton City Park. An absorbent sock was also found in monitoring well MW-5 located on-site adjacent to the south property boundary and down-gradient from soil boring OS-2 (area of total xylene soil contamination exceeding the Tier 2 Soil Saturation Limit). The absorbent sock was removed from MW-5 and found to be fully saturated. Although the presence and saturation of the absorbent sock indicates a history of free product in the MW-5 monitoring well, no free product was observed in the well upon removal of the sock. An absorbent sock was placed in the MW-21 monitoring well on August 15, 2013. Monitoring well MW-5 was inspected on August 15, 2013. There was no free product observed in the well on this date.

On August 26, 2013, the absorbent sock was removed from MW-21. The well was purged dry and allowed to recharge overnight. On August 27, 2013, approximately 1/8" of free product was observed in monitoring well MW-21. As a result, the absorbent sock was returned to the well.

On September 3, 2013, a 4" diameter recovery well (RW-1) was installed adjacent to monitoring well MW-21. The well was installed at a depth of approximately 15' below ground surface (bgs) and was constructed with Sch. 40 PVC materials consisting of a 10' slotted screen and 5' solid riser. A metal flush mount well protector was installed in concrete slightly above grade for protection and to divert surface run-off water.

On September 4, 2013, three (3) 2" diameter wells (FP-1 through FP-3) were installed in the Clayton City Park adjacent to the Highway 24 south ROW and up-gradient from the RW-1 recovery well. The purpose of the FP-1 through FP-3 monitoring wells was to identify the extent of free product observed at monitoring well location MW-21. IEPA representatives Valerie Davis and James Malcom were present during the September 4, 2013 free product investigation activities.

The RW-1 and FP-1 through FP-3 wells were developed on September 5, 2013 and purged on September 6, 2013. Free product was not observed in the RW-1 recovery well, FP-1 through FP-3 observation wells or any groundwater monitoring well during the September 2013 free product investigation. As a result, it is reasonable to conclude that the extent of free product underlying the Clayton City Park is limited to an isolated area in the immediate vicinity of the MW-21 and RW-1 wells. The absorbent sock was returned to the MW-21 monitoring well.

Recovery well RW-1, observation wells FP-1 through FP-3 and monitoring well MW-21 were inspected for the presence of free product on October 4, 2013 and January 24, 2014. Free product was not observed on either date and the absorbent sock was returned to MW-21 following each inspection.

While preparing the monitoring wells for groundwater sample collection on October 15, 2014, approximately 1/8" of free product was observed in the MW-5 monitoring well. The well was purged dry and allowed to recharge overnight. Approximately 1/16" of free product was observed in MW-5 on October 16, 2014. The well was again purged dry on October 16 and 17, 2014. Free product was not observed in the RW-1 recovery well, the FP-1 through FP-3 observation wells or the MW-21 monitoring well during the October 2014 activities. It should be noted that groundwater depth observed in the RW-1, FP-1 through FP-3 and MW-21 was extremely shallow (i.e., <1' bgs) on October 15-17, 2014.

Approximately 1/8" of free product was again observed in the MW-5 monitoring well on January 1, 2015. Free product was not present in the MW-21 monitoring well on this date.

Groundwater removed from monitoring wells with free product was placed in IDOT-approved 55-gallons drums and temporarily staged on-site pending proper disposal.

Laboratory analysis of groundwater samples collected on October 16, 2014 identify a significant reduction in contaminant concentrations since the March 6, 2009 sampling event. Contaminant concentrations exceeding Class I Groundwater Standards have been confirmed at just three (3) on-site monitoring well locations (MW-3 through MW-5) and two (2) off-site locations (MW-20 and MW-21).

2. Analytical results, chain-of-custody forms, and laboratory certifications;

Laboratory Reports, Chain of Custody forms and Laboratory Certifications relative to the analysis of soil and groundwater samples collected during the August 2013 overburden soil investigation and the October 2014 groundwater investigation are included in Appendix B.

3. Tables comparing analytical results to applicable remediation objectives;

Table 1 offers an analytical summary of soil samples collected from the excavation walls and floor during the 2006 soil abatement activities. The table includes applicable site-specific Tier 2 Industrial/Commercial and Construction Worker Inhalation soil objectives and Tier 2 Soil Saturation Limits.

Table 2 offers an analytical summary of samples collected from soil borings advanced to determine the vertical and lateral extent of soil contamination as a result of IEMA #951012. The table includes applicable on-site and off-site soil objectives.

Table 3 offers an analytical summary of soil samples collected during the August 2013 overburden soil investigation and applicable soil objectives.

Table 4 offers an analytical summary of samples collected during the October 2014 groundwater investigation.

4. Boring logs;

Boring Logs relative to the soil borings advanced during the overburden soil and free product investigations are included in Appendix C.

5. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:

a. Soil sample locations;

Soil sample locations are identified in Figure 1.

b. Monitoring well locations;

The locations of groundwater monitoring wells are also depicted in Figure 1. Well Construction Logs are included in Appendix D.

c. Plumes of soil and groundwater contamination;

The estimated extent of soil contamination resulting from IEMA #951012 exceeding Tier 1 Residential objectives is identified in Figure 2. The estimated extent of groundwater contamination is identified in Figure 3. The estimated potential migratory extent or groundwater contamination exceeding Class I Groundwater Standards as a result of IEMA #951012 based on contaminant transport models modeling is identified in Figure 4.

E. Technical Information – Corrective Action Plan

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;

Based on analytical results obtained to date, soil and groundwater quality has been impacted by IEMA #951012. The impact resulting from IEMA #951012 requiring remedial action extends off-site onto adjoining properties east and south of Parker's Gas & More and into the East Outer Belt Drive ROW adjoining the south property boundary. In addition, isolated areas of free product have been identified on and off-site and soil with contaminant concentrations exceeding the total xylene Tier 2 Soil Saturation Limit has been confirmed in the vicinity of soil boring OS-2. This CAP proposes the excavation, transportation, and disposal of petroleum contaminated soil on and off-site exceeding applicable soil objectives and Soil Saturation Limits.

Areas of proposed soil abatement are identified in Figure 5 as Areas A through D. Areas A and B are located on-site and are subject to site specific Tier 2 Industrial/Commercial and Construction Worker Inhalation soil objectives as well as Tier 2 Soil Saturation Limits. Based on the analysis of soil samples collected from boring locations OS-1 through OS-4, there will be no removal/replacement of overburden soil in Area A. Overburden soil from 0-5' bgs will be removed in Area B and returned to the excavated area upon abatement of the underlying contaminated soil. Based on the depth of the 2006 excavation, Areas A and B could be excavated to a maximum depth of 16' bgs. However, the depth of the excavation will ultimately be determined (and limited) by groundwater elevation. Given the significant seasonal fluctuation in groundwater elevation observed at the Parker's Gas & More site, on-site soil abatement activities may be halted as shallow as 12' bgs.

Area C (adjoining residential property east of the Parker's Gas & More site) and Area D (located in the City of Clayton Park south of the site), are subject to the

most stringent Tier 1 Residential soil objectives. Based on the August 2013 soil investigation, overburden soil from 0-5' bgs can be removed in each area and returned to the excavations upon abatement of underlying contaminated soil. Soil abatement activities in Area C could be limited as described relative to Areas A and B. However, due to a significantly lower surface elevation compared to Areas A, B and C, soil abatement activities in Area D are not likely to exceed a depth of 10' bgs.

Use of the City of Clayton groundwater ordinance as an Institution Control will control potential exposure to the Groundwater Ingestion Exposure Route and the on-site Soil Component of the Groundwater Ingestion Exposure Route. In accordance with the IEPA directive included in its January 25, 2012 decision letter, groundwater samples have been collected from all on-site and off-site monitoring wells for laboratory analysis to determine current groundwater contaminant concentrations. Contaminant transport models (i.e., Leachate and R26 Equations) have been revised based on the current contaminant levels to estimate the potential migratory extent of groundwater contamination resulting from IEMA #951012. Upon completion of the proposed soil abatement activities, eight (8) monitoring wells will be installed in the excavated areas. The wells will be constructed of 2" diameter Sch. 40 PVC and consist of a 10' slotted screen and 5' solid riser. The wells will be protected by a flush mount well protector placed in concrete slightly above-grade to divert surface water run-off. The proposed monitoring well locations are identified in Figure 6. Groundwater samples will be collected from the proposed monitoring wells and the existing MW-20 monitoring well (located in the Outer Belt Drive ROW) for BTEX and PNAs analysis. The analytical results will be used to determine the impact to groundwater quality as a result of the proposed soil abatement activities and to revise the contaminant transport models to ensure the potential migratory extent of groundwater contamination does not extend beyond the limits of the groundwater ordinance. The revised models will identify the impacted and/or potentially impacted properties such that the Property Owners (and the City of Clayton) can be notified of the Parker's Gas & More election to use the ordinance as an Institutional Control to exclude the Groundwater Ingestion and Soil Component of the Groundwater Ingestion Exposures Pathways. The notice will be structured similar to the Agency's template document included in Appendix E.

The revised contaminant transport models will also be used to define the extent of the Highway Authority Agreement between Parker's Gas & More and the Illinois Department of Transportation (IDOT) to control potential exposure to the soil and groundwater impact confirmed in the Outer Belt Drive (Highway 24) ROW.

Analytical results of the proposed soil and groundwater samples will be evaluated collectively to identify areas requiring evaluation/exclusion of the Indoor Inhalation Exposure Pathway. Upon completion of the proposed soil abatement activities and post-abatement groundwater investigation, the evaluation will identify areas within the remaining extent of groundwater contamination

exceeding Class I Groundwater Standards overlain by soil with contaminant concentrations exceeding the most stringent Tier 1 Residential soil objective (regardless of Groundwater Ingestion and Soil Component of the Groundwater Ingestion Exposure Pathway exclusion). Once these areas are identified, the evaluation will focus on identifying areas in which the Indoor Inhalation Exposure Pathway can be excluded based on the presence of at least five (5) vertical feet of soil with contaminant concentrations below Tier 1 Residential objectives between the contaminated groundwater and ground surface or any potential receptor. It is anticipated that the Indoor Inhalation Exposure Pathway will be excluded in the proposed excavation areas since the placement of backfill material will provide the required minimum vertical separation between ground surface (and/or potential receptor) and the underlying contaminated groundwater. The proposed Highway Authority Agreement will provide exclusion of the Indoor Inhalation Exposure Pathway in the Outer Belt Drive ROW. Since on-site unsaturated soil is subject to site-specific Tier 2 Industrial/Commercial and Construction Worker Outdoor Inhalation objectives, it is likely that exclusion of the Indoor Inhalation Exposure Pathway in on-site areas of overlapping groundwater and soil contamination will require further investigation. However, the proposed soil abatement and post-abatement groundwater investigation must be completed before a scope of work designed to investigate all on-site areas in which the pathway cannot be excluded based on the required vertical separation can be submitted to IEPA for review/approval.

a. The major components of the corrective action plan;

The major components proposed in this CAP consist of the following:

- Removal of overburden soil within the proposed on and off-site soil abatement areas and use of the same in the resulting excavations as backfill material,
- On and off-site abatement of soil exceeding applicable objectives,
- A post-abatement groundwater investigation to determine the impact on groundwater contaminant concentrations and if continued free product removal activities are necessary,
- Use of the City of Clayton groundwater ordinance to exclude the Groundwater Ingestion and Soil Component of the Groundwater Ingestion Exposure Pathways,
- Negotiation of a Highway Authority Agreement between Parker's Gas & More and IDOT to exclude all potential exposure pathways within the Outer Belt Drive ROW,

- Revising contaminant transport models to identify impacted and/or potentially impacted properties and the area of the Outer Belt Drive ROW that should be subject to the proposed Highway Authority Agreement,
- Notifying the City of Clayton and Owners of properties impacted, or potentially impacted, by IEMA #951012 of the Parker's Gas & More election to use the existing groundwater ordinance as an Institutional Control,
- An evaluation to determine if exclusion of the Indoor Inhalation Exposure Pathway requires additional investigation, and,
- Replacing the asphalt surface destroyed during the 2006 and proposed soil abatement activities.

Obviously, completion of the major components listed above will require the completion of multiple supporting tasks such as (but not necessarily limited to) negotiating access to off-site properties, coordinating/scheduling field activities and securing Contractors/service providers. It should be noted that a budget amendment may be necessary should IEPA demand the negotiation of Project Labor Agreements (PLAs) between Parker's Gas & More and its contractors/subcontractors. It should also be noted that the area subject to an IDOT Highway Authority Agreement is usually dictated by IDOT and is often exaggerated beyond the area identified as impacted, or potentially impacted, by laboratory analyses and/or contaminant transport modeling. In addition, IDOT Highway Authority Agreements have historically included conditions with associated potential liabilities and/or financial burdens that UST Owners/Operators are not comfortable accepting (i.e., unreasonable conditions as determined by the Owner/Operator). The proposal of a Highway Authority Agreement included in this CAP assumes IDOT will draft an agreement that is reasonable, mutually acceptable and that it (IDOT) will do so in a timely manner.

b. The scope of the problems to be addressed by the proposed corrective action;

The scope of work proposed in this CAP is designed to exclude all potential exposure pathways regarding the impact to soil and groundwater as a result of IEMA 951012 except the potential Indoor Inhalation Exposure Pathway. As previously addressed, exclusion of this potential pathway requires completion of the proposed scope of work and, depending upon the results, may require additional investigation.

c. A schedule for implementation and completion of the plan;

The proposed overburden removal and soil abatement will be scheduled upon IEPA approval of this CAP and securing access to the off-site properties. The proposed post-abatement groundwater investigation will be performed within 90 days following completion of the soil abatement activities. Contaminant transport models will be revised upon completion of the proposed groundwater analysis. A request to enter into a Highway Authority Agreement will be submitted to IDOT once revised contaminant transport models identify the area of the Outer Belt Drive ROW impacted and/or potentially impacted by IEMA #951012. Depending upon the results of the proposed evaluation of the Indoor Inhalation Exposure Pathway, a CAP proposing either the exclusion of the pathway, or the activities necessary to exclude the pathway, will be submitted for IEPA review/approval.

Once access to the adjoining properties is secured, it is anticipated that the proposed overburden removal and soil abatement activities will begin within the following 60 to 90 days and that the activities will require twenty (20) business days to complete.

2. Identification of the remediation objectives proposed for the site;

Tier 1 Residential objectives are applicable to off-site unsaturated soil and site-specific Tier 2 Industrial/Commercial and Construction Worker Inhalation objectives apply to on-site unsaturated soil.

Although Class I Groundwater objectives apply on and off-site, potential exposure to contaminated groundwater and saturated soil is controlled by the City of Clayton groundwater ordinance.

Indoor Inhalation objectives are not being proposed at this time. This potential exposure pathway cannot be fully evaluated until the scope of work proposed in this CAP is completed.

3. A description of the remedial technologies selected;

Accessible unsaturated soil with contaminant concentrations exceeding applicable objectives will be remediated by means of conventional soil abatement and off-site disposal.

Potential exposure to saturated soil and groundwater exceeding applicable remedial objectives as a result of IEMA #951012 will be controlled by the City of Clayton groundwater ordinance.

Based on the results of the June 2013 investigation of the overburden soil within the proposed areas of excavation, it appears that the upper 5' of soil in Areas B, C and D can be removed and returned to the excavations as backfill material.

The area within each proposed excavation has been calculated as follows:

Area A = 2,350 ft²
Area B = 3,940 ft²
Area C = 2,400 ft²
Area D = 5,400 ft²

Given the following factors:

- No overburden soil will be removed in Area A,
- Overburden soil from 0 – 5' bgs will be removed in Areas B, C and D and returned to the resulting excavations as backfill material,
- The maximum depths of the proposed excavations are estimated at 16' bgs in Areas A, B and C and 10' bgs in Area D (NOTE: Actual depths will be dictated by the depth at which groundwater is encountered)

The volume of contaminated soil excavated and transported for off-site disposal is estimated as follows:

Area A = 1,465 yds³
Area B = 1,685 yds³
Area C = 1,030 yds³
Area D = 1,000 yds³

Total 5,230 yds³

The volume of overburden soil to be removed and returned to the excavation as backfill material following abatement of contaminated soil is estimated as follows:

Area A = 0 yds³
Area B = 730 yds³
Area C = 445 yds³
Area D = 1,000 yds³

Total 2,175 yds³

The volume of backfill material obtained from an off-site source to be placed in the resulting excavations is estimated as follows:

Area A = 1,465 yds³

Area B = 1,685 yds³

Area C = 1,030 yds³

Area D = 1,000 yds³

Total 5,230 yds³

A Photoionization Detector (PID) will be used to guide the excavation activities in an effort to ensure only contaminated soils exceeding applicable objectives are abated.

As a result of the 2006 soil abatement activities and those proposed in this CAP, approximately 5,700 ft² of a 4" asphalt surface will require replacement. The area requiring replacement of the asphalt surface is identified in Figure 7.

Since the monitoring wells hadn't been sampled in several years, many were no longer readily identifiable. As a result, the use of a metal detector designed to detect ferrous metals such as those used to construct flush mount man-ways was necessary to reduce the time required to locate the monitoring wells. Bailers were used to purge groundwater from each monitoring well in an effort to recondition the monitoring wells prior to sample collection. Bailers were used during sample collection to transfer groundwater samples from the monitoring wells to properly preserved sample containers. Bailers were also used to remove contaminated water and free product from monitoring wells MW-5 and MW-21.

All samples (soil and groundwater) were/will be shipped under proper chain of custody to a NELAP accredited laboratory for BTEX and PNA analyses.

a. The feasibility of implementing the remedial technologies;

This CAP proposes removal of contaminated soils utilizing excavation, transportation, and disposal in an effort to abate unsaturated soils impacted by the petroleum release. Conventional soil abatement offers a timely and cost effective remedial solution in regard to the soil impact resulting from IEMA #951012. The removal of uncontaminated overburden soil and placement of the same as backfill material improves the feasibility of the proposed remedial plan by insuring only soil exceeding applicable objectives is transported to a proper disposal facility and minimizes backfill costs.

The threat of exposure to groundwater and saturated soil contamination resulting from IEMA #951012 is controlled by the City of Clayton groundwater ordinance. Use of the ordinance as an Institutional Control

offers a timely and cost effective remedial solution in regard to groundwater contamination resulting from IEMA #951012.

The proposed Highway Authority Agreement between Parker's Gas & More and IDOT will provide the control necessary to exclude all potential pathways in the Outer Belt Drive ROW as a result of IEMA #951012.

b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved;

Contaminated soil abatement is the most reliable and timely technology available to address petroleum contamination exceeding applicable soil objectives and/or Soil Saturation Limits on and off-site. This technology provides immediate results while remaining cost effective.

The proposed Institutional Controls (i.e., City of Clayton groundwater ordinance and IDOT Highway Authority Agreement) will limit the threat of exposure to groundwater, saturated soil and inaccessible unsaturated soil with contaminant concentrations exceeding applicable objectives until it is proven such controls are no longer necessary.

As previously addressed, additional activities necessary to exclude the Indoor Inhalation Exposure Pathway (if any) cannot be determined until the scope of work proposed in this CAP is completed.

c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;

Soil abatement activities will be scheduled upon IEPA approval of this CAP, landfill acceptance of the waste stream and securing access to off-site properties.

The City of Clayton groundwater ordinance was recently approved by IEPA as appropriate for use as an Institutional Control.

Historically, negotiating a Highway Authority Agreement with IDOT has exhausted 1.5 – 2.0 years or more. As a result, or should IDOT attempt to impose conditions of entering into a Highway Authority Agreement that are not acceptable to Parker's Gas & More, an evaluation of alternative solutions may prove necessary.

4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;

Soil samples will be collected from the proposed excavations to confirm applicable remediation objectives have been met. Soil samples will be collected from the walls and floor of each excavation on 20 foot intervals. Soil samples will be collected from the lower third of the walls or from locations of obvious or suspected contamination. All samples will be transferred to properly preserved sample containers and shipped under standard chain of custody protocol to a NELAP accredited lab for BTEX and PNAs analysis.

5. A description of the current and projected future uses of the site;

Parker's Gas & More is currently an unoccupied commercial property. Given the proposed on-site use of Tier 2 Industrial/Commercial soil objectives, any future use of the property will also be Commercial at least until it can be proven that the Land Use Restriction prohibiting any Residential use (as is required when using Industrial/Commercial soil objectives) is no longer necessary.

6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives;

Institutional Controls proposed in this CAP consist of the existing City of Clayton groundwater ordinance, the proposed Highway Authority Agreement with IDOT, and a Land Use Restriction preventing Residential use of the property. Upon completion of the scope of work proposed in this CAP, should an evaluation of the Indoor Inhalation Exposure Pathway conclude Engineered Barriers or additional Institutional Controls are necessary, such barriers and/or controls will be proposed in a CAP submitted for IEPA review/approval.

a. An assessment of their long-term reliability;

IEPA approval of the City of Clayton groundwater ordinance as an Institutional Control confirms it (IEPA) considers the long-term reliability of the ordinance as capable of achieving the minimum requirements of Title XVI.

Controls such as the proposed Highway Authority Agreement typically provide the long-term reliability necessary to support the issue of a No Further Remediation (NFR) Letter.

Controls such as the proposed Land Use Restriction will remain conditional to the No Further Remediation (NFR) Letter issued by IEPA in response to its approval of a Corrective Action Completion Report

(CACR) and recorded as a permanent record attached to the property deed until it is proven the Control(s) is no longer necessary.

b. Operating and maintenance plans;

The remedial action and Institutional Controls proposed in this CAP do not require operation and/or maintenance plans.

c. Maps showing area covered by barriers and institutional controls;

Please refer to Figure 8: Institutional Controls Map.

7. The water supply well survey;

The IEPA Source Water Assessment Program (SWAP) was utilized to address the requirements of the water supply well survey requirements.

a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;

A private well is located west of the site. The well will be visually located and measured to determine the exact distance from the Parker's Gas & More leaking UST site. As a result of the City of Clayton groundwater ordinance, it is assumed the well is abandoned or inactive. Please refer to Figures 5 & 6 of the *Amended CAP* received by the Agency on March 4, 2009 for information regarding the potable water supply well survey.

b. Map(s) showing regulated recharge areas and wellhead protection areas;

Please refer to Figures 5 & 6 of the *Amended CAP* received by the Agency on March 4, 2009 for information regarding the potable water supply well survey.

c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

Refer to Figure 3.

d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;

Refer to Figure 4. Please refer to Appendix A for SSL modeling, SSL Input Parameter sheet, and the RBCA Input Parameter sheet.

- e. Tables listing the setback zone for each community water supply well and other potable water supply wells;**

Please refer to the *March 13, 2007 ACAP* submitted by USI.

- f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified;**

Please refer to the *March 13, 2007 ACAP* submitted by USI.

- g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey;**

The Professional Engineer certification by USI included in the previously submitted *CAP* satisfies this requirement.

8. Appendices:

- a. References and data sources report;**

Appendix A: TACO Equations
Appendix B: Laboratory Reports, Chain of Custody Forms & Laboratory Certifications
Appendix C: Boring Logs
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Appendix E: Property Owner Notification
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- b. Field logs, well logs, and reports of laboratory analyses;**

Please refer to Section 8.a. above.

9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;

Figure 1: Sample Locations
Figure 2: Estimated Soil Plume Map
Figure 3: Estimated Groundwater Plume Map
Figure 4: R-26 Modeling Map
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Figure 9: Groundwater Flow Map

Figure 10: Source Width & Source Length

10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;

Not applicable.

11. A description of bench/pilot studies;

Not applicable

12. Cost comparison between proposed method of remediation and other methods of remediation;

Not applicable

13. For the proposed Tier 2 or 3 remediation objectives, provide the following:

a. The equations used;

Equations utilized to calculate Tier 2 Objectives are S2, S3, S6, S7, S8, S10, S18, S19, S20, S21, S24, S25, and S29. Equations utilized to obtain modeled extent of groundwater are R16, R17, R18, R19, R21, R22, R23, and R26.

b. A discussion of how input variables were determined;

The following input variables were obtained by physical analyses of the Shelby Tube ST-1 soil core: bulk density (99.2 pcf), soil particle density (2.74), the sieve size analysis results plotted on the USDA Soil Classification Triangle to determine that the site specific soil type is a Silt Clay Loam, and a moisture content of 26.3%. Pursuant to IAC Section 742, Appendix C, Table K, a silt clay loam has a K_s value of 13 and a $1/(2b+3)$ value of 0.054.

Hydraulic gradient was determined by using the groundwater flow data from August 1, 2008. Iso-elevation lines of 96.5 ft and 91 ft were utilized with a distance of 195 ft for a hydraulic gradient, i , of 0.03 ft/ft.

The variable "source length parallel to groundwater flow", (L), of 265 ft was determined by utilizing a conservative distance of the soil plume based upon clean soil samples at soil boring BH-2 and BH-35.

The variable "source width perpendicular to groundwater flow", (S_d), was determined using the 293 ft. separating monitoring wells MW-13 and MW-16.

c. Map(s) depicting distances used in equations;

Refer to Figure 10.

d. Calculations;

Please refer to Appendix A for a copy of the calculations associated with calculating Tier 2 objectives.

14. Provide documentation to demonstrate the following for alternative technologies;

No alternative technologies are proposed.

a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;

Not applicable.

b. The proposed alternative technology will not adversely affect human health and safety or the environment;

Not applicable.

c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;

Not applicable.

d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;

Not applicable.

- e. **Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a);**

Not applicable.

- f. **Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.**

Not applicable.

F. Exposure Pathway Exclusion

Provide the following:

1. **A description of the tests to be performed in determining whether the following requirements will be met:**

- a. **Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;**

The concentration of any organic contaminant of concern shall not exceed the attenuation capacity of the soil as determined under Section 742.215 (742.305(a)). Based on the site specific natural organic carbon fraction (f_{oc}) analysis of a soil sample collected from soil boring location ST-1, the calculated site specific attenuation capacity value for the Parker's Gas & More site is 10,900 mg/kg. Each discrete sampling point contained a sum of the organic contaminant concentrations less than the site specific attenuation capacity. The soil attenuation capacity at the Parker's Gas & More site has not been exceeded.

- b. **Soil saturation limit will not be exceeded for any of the organic contaminants;**

As previously addressed, the total xylenes concentration confirmed at boring location OS-2 (at a depth of 3'- 4' bgs exceeds the site-specific Tier 2 Soil Saturation Limit.

c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;

Soil containing contaminants of concern shall not exhibit any of the characteristics of reactivity for hazardous waste as determined by 35 IAC 721.123 (742.305(c)).

The petroleum contaminated soil at this site does not exhibit any of the reactivity characteristics of hazardous waste.

d. Contaminated soils do not exhibit a pH \leq 2.0 or \geq 12.5;

Laboratory analysis has confirmed a soil pH of 5.86.

e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124;

Pursuant to 35 IAC 742, Subpart C, Section 742.30(e), soils shall not exhibit any of the characteristics of toxicity for hazardous waste as determined by 35 IAC 721.124 if they contain: arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver (or their salts). Please refer to the approved amended CAP (submitted by USI) received by the IEPA on March 4, 2009 for the demonstration eliminating lead as an indicator contaminant relative to IEMA #951012.

2. A discussion of how any exposure pathways are to be excluded;

The City of Clayton groundwater ordinance controls potential exposure to the Groundwater Ingestion and Soil Component to the Groundwater Ingestion pathways. Abatement of accessible unsaturated soil with contaminant concentrations exceeding applicable Inhalation and/or Construction Worker Inhalation objectives excludes the Outdoor Inhalation Exposure Pathways. The proposed Highway Authority Agreement excludes all potential exposure pathways in the area of the Outer Belt Drive ROW impacted by IEMA #951012. If necessary, additional investigation of the Indoor Inhalation Exposure Pathway will be proposed in a CAP submitted for IEPA review/approval once the scope of work proposed in this CAP is completed and the results are evaluated in regard to exclusion of this pathway.

A CAP reporting the results of the proposed soil abatement and post-abatement groundwater investigation and data supporting the exclusion of the Indoor Inhalation Exposure Pathway (or activities necessary to exclude the pathway) will be submitted for IEPA review prior to the submittal of an application requesting reimbursement of the costs incurred to complete these activities.

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Corrective Action Plan & Free Product Removal Report

Parker's Gas & More

LUST #951012

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A budget to complete the scopes of work reported and proposed in this CAP is included in Appendix F.

TABLE 1
Excavation Soil Analytical Summary
(Reported in ppm)

Sample_ID	Sample_Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
Tier 1 Residential Objectives			0.03	12	13	5.60	1.8
Tier 2 Industrial/Commercial Objectives			15.79	1034.07^{CW}	632.31^{CW}	279.78^{CW}	7.21^{CW}
Tier 2 Soil Saturation Limits (Csat)			1389	1034	632	502	NA
F-1	16'	1/24/2006	0.28	0.019	0.431	0.7	0.584
F-2	16'	1/25/2006	0.0035	0.0035	0.0035	0.0105	0.571
F-3	16'	1/26/2006	0.00339	0.00339	0.00339	0.0102	0.569
F-4	16'	1/26/2006	0.00354	0.00354	0.00354	0.0106	0.577
F-5	16'	1/27/2006	0.0033	0.0033	0.0033	0.0099	0.566
F-6	16'	2/2/2006	0.00316	0.00438	0.00316	0.00948	0.557
F-7	16'	2/2/2006	0.00367	0.00619	0.00324	0.00974	0.556
F-8	16'	1/31/2006	0.00332	0.00474	0.00332	0.0100	0.561
F-9	16'	1/31/2006	0.00330	0.00397	0.00330	0.00989	0.568
F-10	16'	2/3/2006	0.00397	0.00773	0.00362	0.0109	0.568
F-11	16'	2/3/2006	0.00378	0.00656	0.00344	0.0103	0.555
F-12	16'	2/6/2006	0.00352	0.00352	0.00352	0.0106	0.564
W-1	8'	1/24/2006	0.161	0.0034	4.05	0.35	0.565
W-2	8'	1/24/2006	1.21	0.0625	8.46	24.1	0.575
W-3	8'	1/25/2006	0.552	0.37	0.909	4.4	0.572
W-4	8'	1/25/2006	0.34	0.0379	1.66	0.933	4.24
W-5	8'	1/25/2006	1.02	0.0196	5.85	1.88	0.443
W-6	8'	1/26/2006	5.15	1.39	20.7	35.1	0.587
W-7	8'	1/27/2006	8.62	5.83	14.7	51.7	0.577
W-8	8'	1/27/2006	37.7	208	57	271	1.14
W-9	8'	1/27/2006	24.3	188	59.5	289	1.53
W-10	8'	2/2/2006	3.54	2.90	16.5	41.3	0.848
W-11	8'	2/2/2006	15.4	52.7	14.7	58.1	1.83
W-12	8'	2/2/2006	11.6	72.3	16.7	66.7	0.755
W-13	8'	2/2/2006	2.08	2.22	0.475	2.14	0.563
W-14	8'	2/3/2006	22.3	114	30.6	155	1.94
W-15	8'	2/3/2006	7.40	7.21	0.68	3.33	0.568
W-16	8'	2/6/2006	10.40	83.20	31.10	148	0.569
W-17	8'	2/6/2006	6.12	31.1	10	47.2	0.569
W-18	8'	2/6/2006	11.5	56.6	13.3	61.8	0.569

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective

CW - Construction Worker Outdoor Inhalation Objective

TABLE 2
Site Investigation Soil Analytical Summary
(Reported in ppm)

Sample ID	Location	Sample Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene	Naphthalene
Tier 1 Residential Soil Objective				0.03	12	13	5.6 [™]	0.09	1.8
Tier 2 Industrial/Commercial Soil Objective				15.79	1034.07 [™]	632.31 [™]	279.78 [™]	NA	7.21 [™]
Tier 2 Soil Saturation Limit (Csat)				1389	1034	632	502	NA	NA
BH-1A	Onsite	4'	12/18/2007	0.00372	0.00372	0.00372	0.0112	0.057	ND
BH-1B	Onsite	8'	12/18/2007	0.00352	0.00352	0.00352	0.0105	0.013	ND
BH-1C	Onsite	13'	12/18/2007	0.00394	0.00394	0.00394	0.0118	0.0131	ND
BH-2A	Onsite	4'	12/18/2007	0.00392	0.00392	0.00392	0.0118	0.0133	ND
BH-2B	Onsite	8'	12/18/2007	0.00341	0.00341	0.00341	0.0102	0.0129	ND
BH-2C	Onsite	14'	12/18/2007	0.00354	0.00354	0.00354	0.0106	0.013	ND
BH-6A	Onsite	3'	7/28/2008	0.00431	0.00431	0.00431	0.0129	0.0135	ND
BH-6B	Onsite	9'	7/28/2008	0.233	0.182	2.3	5.31	0.0133	ND
BH-6C	Onsite	13'	7/28/2008	0.146	0.00359	0.227	0.0385	0.0129	ND
BH-7A	Onsite	3'	7/28/2008	0.0033	0.0033	0.0033	0.00991	0.1000	ND
BH-7B	Onsite	12'	7/28/2008	8.42	68.5	27.4	142	0.0131	ND
BH-8A	Onsite	3'	7/28/2008	0.00368	0.00368	0.00368	0.011	0.0130	ND
BH-8B	Onsite	9'	7/28/2008	0.00449	0.00449	0.00449	0.0135	0.0146	ND
BH-8C	Onsite	13'	7/28/2008	0.0044	0.0044	0.0044	0.0132	0.0129	ND
BH-16A	Onsite	4-5'	3/4/2009	4.81	26.8	6.04	37.2	0.0128	ND
BH-16B	Onsite	7-8'	3/4/2009	5.81	45.8	10.2	99.1	0.0128	2.58
BH-16C	Onsite	12-13'	3/4/2009	7.45	37.2	12.4	65.9	0.0110	1.42
BH-17A	Onsite	4-5'	3/4/2009	0.00374	0.00374	0.00374	0.0112	0.0129	ND
BH-17B	Onsite	7-8'	3/4/2009	0.0037	0.0037	0.0157	0.0037	0.0124	ND
BH-17C	Onsite	13-14'	3/4/2009	0.00327	0.00327	0.0254	0.011	0.0119	ND
BH-18A	Onsite	4-5'	3/4/2009	0.00361	0.00361	0.00361	0.0108	0.0130	ND
BH-18B	Onsite	7-8'	3/4/2009	0.00368	0.00368	0.00368	0.011	0.0127	ND
BH-18C	Onsite	12-13'	3/4/2009	0.00351	0.00351	0.00351	0.0105	0.0127	ND
BH-19A	Onsite	4-5'	3/4/2009	0.00622	0.00428	0.00428	0.0129	0.0133	ND
BH-19B	Onsite	7-8'	3/4/2009	0.00366	0.00366	0.00366	0.011	0.0127	ND
BH-19C	Onsite	12-13'	3/4/2009	0.00325	0.00325	0.00325	0.00974	0.0128	ND
BH-20A	Onsite	4-5'	3/4/2009	0.00368	0.00368	0.00368	0.0116	0.0135	ND
BH-20B	Onsite	9-10'	3/4/2009	8.19	89.7	21.1	116	0.0129	ND
BH-20C	Onsite	11-12'	3/4/2009	7.64	23.5	6.72	35.2	0.0128	ND
BH-21A	Onsite	4-5'	3/4/2009	4.31	27.8	8.48	80.8	0.0129	0.9690
BH-21B	Onsite	7-8'	3/4/2009	17.6	43.5	24.1	124	0.0117	1.06
BH-21C	Onsite	12-13'	3/4/2009	0.0121	0.0796	2.68	0.372	0.0130	ND
BH-23A	Onsite	4-5'	3/4/2009	0.017	0.00381	0.00381	0.0114	0.0129	ND
BH-23B	Onsite	9-10'	3/4/2009	2.71	1.89	1.43	6.73	0.0125	ND
BH-23C	Onsite	12-13'	3/4/2009	2.56	0.0752	0.419	0.341	0.0119	ND
BH-24A	Onsite	4-5'	3/4/2009	0.00345	0.00352	0.00345	0.104	0.0124	ND
BH-24B	Onsite	7-8'	3/4/2009	0.00404	0.00404	0.00404	0.0121	0.0136	ND
BH-24C	Onsite	12-13'	3/4/2009	0.00357	0.00357	0.00357	0.013	0.0107	ND

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective

CW - Construction Worker Outdoor Inhalation Objective

TABLE 2 (continued)
Site Investigation Soil Analytical Summary
(Reported in ppm)

Sample ID	Location	Sample Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo(a)pyrene	Naphthalene
Tier 1 Residential Soil Objective				0.03	12	13	5.6^m	0.09	1.8
Tier 1 Soil Saturation Limit (Csat)				800	580	350	280	NA	NA
BH-3A	Right of way	4'	12/18/2007	0.00367	0.00367	0.00367	0.011	0.013	ND
BH-3B	Right of way	8'	12/18/2007	1.28	0.0936	0.0917	0.334	0.028	ND
BH-3C	Right of way	13'	12/18/2007	5.27	24.8	7.13	41.4	0.013	ND
BH-4A	Right of way	4'	12/18/2007	0.0038	0.0038	0.0038	0.0114	0.0134	ND
BH-4B	Right of way	9'	12/18/2007	0.03	0.004	1	2.2	0.013	ND
BH-4C	Right of way	14'	12/18/2007	0.09	0.00342	0.182	0.306	0.0131	ND
BH-5A	Right of way	4'	12/18/2007	0.00341	0.00341	0.00341	0.0102	0.0125	ND
BH-5B	Right of way	9'	12/18/2007	0.00335	0.00335	0.00335	0.0101	0.0128	ND
BH-5C	Right of way	14'	12/18/2007	0.00355	0.00355	0.00355	0.0107	0.0131	ND
BH-10A	Right of way	3'	7/28/2008	0.00401	0.00401	0.00401	0.012	0.0136	ND
BH-10B	Right of way	9'	7/28/2008	1.9	2.64	0.302	1.56	0.0127	ND
BH-10C	Right of way	13'	7/28/2008	7.38	20.9	4.01	20.1	0.0124	ND
BH-25A	Right of way	9-10'	3/5/2009	0.00366	0.00366	0.00366	0.011	0.0127	ND
BH-25B	Right of way	14-15'	3/5/2009	0.00549	0.00739	0.0269	0.0304	0.0130	ND
BH-14A	Offsite to East	4-5'	3/4/2009	0.00404	0.00404	0.00404	0.0121	0.0134	ND
BH-14B	Offsite to East	7-8'	3/4/2009	0.545	0.101	4.17	23.4	0.0128	ND
BH-14C	Offsite to East	12-13'	3/4/2009	0.00335	0.00335	0.00335	0.0101	0.0112	ND
BH-15A	Offsite to East	4-5'	3/4/2009	0.00385	0.00385	0.00385	0.0115	0.0129	ND
BH-15B	Offsite to East	7-8'	3/4/2009	0.00361	0.00361	0.00361	0.0108	0.0131	ND
BH-15C	Offsite to East	12-13'	3/4/2009	0.00377	0.00377	0.00377	0.0113	0.0124	ND
BH-22A	Offsite to East	4-5'	3/4/2009	0.0134	0.0373	0.0322	0.153	0.0139	ND
BH-22B	Offsite to East	7-8'	3/4/2009	0.012	0.00359	0.0411	0.0313	0.0129	ND
BH-22C	Offsite to East	12-13'	3/4/2009	0.00309	0.00309	0.0035	0.00927	0.0115	ND
BH-33A	Offsite to East	4-5'	3/5/2009	0.00391	0.00391	0.00391	0.0117	0.0130	ND
BH-33B	Offsite to East	7-8'	3/5/2009	0.00419	0.00419	0.00419	0.0126	0.0135	ND
BH-34A	Offsite to East	4-5'	3/5/2009	0.00384	0.00384	0.00384	0.0115	0.0130	ND
BH-34B	Offsite to East	7-8'	3/5/2009	0.00377	0.00377	0.00377	0.0113	0.0130	ND
BH-35	Offsite to East	7-8'	4/7/2009	0.00367	0.00367	0.00367	0.011	0.0132	ND
BH-13A	Offsite Park	3'	7/29/2008	0.00364	0.00364	0.00364	0.0109	0.0129	ND
BH-13B	Offsite Park	7'	7/29/2008	0.00401	0.00401	0.00401	0.012	0.0128	ND
BH-13C	Offsite Park	13'	7/29/2008	0.00354	0.00354	0.00354	0.0106	0.0128	ND
BH-26A	Offsite Park	4-5'	3/5/2009	0.106	0.305	0.00633	2.15	0.0125	ND
BH-26B	Offsite Park	7-8'	3/5/2009	4.64	18.7	3.1	15.9	0.0127	0.6310
BH-27A	Offsite Park	9-10'	3/5/2009	3.38	15	2.99	16.6	0.0121	ND
BH-27B	Offsite Park	12-13'	3/5/2009	0.00317	0.00317	0.00317	0.00951	0.0117	ND
BH-28A	Offsite Park	9-10'	3/5/2009	0.00312	0.00312	0.00312	0.00935	0.0122	ND
BH-28B	Offsite Park	12-13'	3/5/2009	0.00462	0.00273	0.00273	0.00818	0.0112	ND
BH-29	Offsite Park	7-8'	3/5/2009	0.00366	0.00366	0.00366	0.011	0.0129	ND
BH-30A	Offsite Park	7-8'	3/5/2009	0.00332	0.00332	0.00332	0.00996	0.0122	ND
BH-30B	Offsite Park	12-13'	3/5/2009	0.00281	0.00281	0.00281	0.00843	0.0120	ND
BH-31A	Offsite Park	7-8'	3/5/2009	0.00291	0.00291	0.00291	0.00872	0.0120	ND
BH-31B	Offsite Park	12-13'	3/5/2009	0.00353	0.00353	0.00353	0.0106	0.0121	ND
BH-32A	Offsite Park	7-8'	3/5/2009	0.0035	0.0035	0.0035	0.0105	0.0126	ND
BH-32B	Offsite Park	10-11'	3/5/2009	0.0036	0.0036	0.0036	0.0108	0.0125	ND
BH-36	Offsite Park	4-5'	4/7/2009	0.146	0.176	7.31	34.1	0.0129	ND
BH-37	Offsite Park	7-8'	4/7/2009	0.00383	0.00383	0.00383	0.0115	0.0130	ND
Sample ID		Date	pH	FOC%					
ST-1	Onsite	12/18/2007	5.86	1.09					

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Sample location exceeding applicable objective but collected at or below depth of groundwater

CW - Construction Worker Outdoor Inhalation Objective

TABLE 3
Overburden Soil Analytical Summary
(Reported in ppm)

Sample_ID	Sample_Depth	Date	Benzene	Toluene	Ethylbenzene	Total_Xylenes	Naphthalene
Tier 1 Residential Soil Objective			0.03	12	13	5.60	1.8
Tier 2 Industrial/Commercial Oil Objective			15.79	1034.07^{CW}	632.31^{CW}	279.78^{CW}	7.21^{CW}
Tier 2 Soil Saturation Limit (C_{sat})			1389	1034	632	502	NA
On-Site							
OS-1	3' - 4'	8/13/2013	18.1	160	41.2	235	0.1
OS-2*	3' - 4'	8/13/2013	37.9	367	117	653*	0.162
OS-3	4' - 5'	8/13/2013	ND	0.0016	ND	0.0013	0.007
OS-4	3' - 4'	8/13/2013	ND	0.0011	ND	ND	ND
OS-5	4' - 5'	8/13/2013	ND	ND	ND	ND	ND
Off-Site							
OS-6	4' - 5'	8/13/2013	ND	ND	ND	ND	ND
OS-7	4' - 5'	8/13/2013	ND	0.0011	ND	ND	ND
OS-8	4' - 5'	8/13/2013	ND	ND	ND	ND	ND
OS-9	4' - 5'	8/13/2013	ND	ND	ND	ND	ND
OS-10	4' - 5'	8/13/2013	ND	0.0014	ND	ND	ND
OS-11	4' - 5'	8/13/2013	ND	0.0009	ND	ND	ND
OS-12	4' - 5'	8/13/2013	ND	ND	ND	ND	ND
OS-13	8' - 9'	8/13/2013	ND	ND	ND	ND	ND
OS-14	4' - 5'	8/13/2013	ND	0.0009	ND	ND	ND

Bold - Exceeds Tier 1 Residential Soil Objective

Shading - Exceeds Applicable Tier 2 Industrial/Commercial Soil Objective

* - Exceeds Applicable Tier 2 Soil Saturation Limit (C_{sat})

CW - Construction Worker Outdoor Inhalation Objective

TABLE 3 (continued)
 Overburden Soil Analytical Summary
 (Reported in ppm)

Sample ID	Sample Depth	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
TACO Tier I Residential Most Stringent Cleanup Objectives			570	85	12,000	0.90	0.09	0.90	23,000	9.00	88	0.09	3,100	560	0.90	1.80	200	2,300
OS-1	3' - 4'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.1	0.014	0.006
OS-2	3' - 4'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.162	ND	ND
OS-3	4' - 5'	8/13/2014	ND	ND	ND	0.004	ND	0.003	ND	ND	ND	ND	0.004	ND	ND	0.007	ND	0.004
OS-4	3' - 4'	8/13/2014	ND	ND	ND	0.006	0.004	0.006	0.004	ND	0.004	ND	0.012	ND	ND	ND	0.004	0.01
OS-5	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-6	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-7	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-8	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-9	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-10	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-11	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-12	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-13	8' - 9'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OS-14	4' - 5'	8/13/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 4
October 2014 Groundwater Analytical Summary
(Reported in ppm)

Sample_ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
Class I Groundwater Standard		0.005	1	0.7	10
MW-1	10/16/2014	ND	ND	ND	ND
MW-2	10/16/2014	ND	ND	ND	ND
MW-3	10/16/2014	0.342	ND	0.014	0.0904
MW-4	10/16/2014	0.809	0.011	0.019	0.048
MW-5	10/16/2014	7	16.4	2.54	15.2
MW-9	10/16/2014	ND	ND	ND	ND
MW-10	10/16/2014	ND	ND	ND	ND
MW-11	10/16/2014	ND	ND	ND	ND
MW-12	10/16/2014	ND	ND	ND	ND
MW-13	10/16/2014	ND	ND	ND	ND
MW-14	10/16/2014	ND	ND	ND	ND
MW-15	10/16/2014	ND	ND	ND	ND
MW-16	10/16/2014	ND	ND	ND	ND
MW-17	10/16/2014	ND	ND	ND	ND
MW-18	10/16/2014	ND	ND	ND	ND
MW-19	10/16/2014	ND	ND	ND	ND
MW-20	10/16/2014	0.0658	ND	0.044	0.056
MW-21	10/16/2014	0.38	0.634	0.343	3.58
MW-22	10/16/2014	0.002	ND	0.0015	ND
MW-23	10/16/2014	0.0006	ND	ND	ND
MW-24	10/16/2014	ND	ND	ND	ND
MW-25	10/16/2014	ND	ND	ND	ND
MW-26	10/16/2014	ND	ND	ND	ND

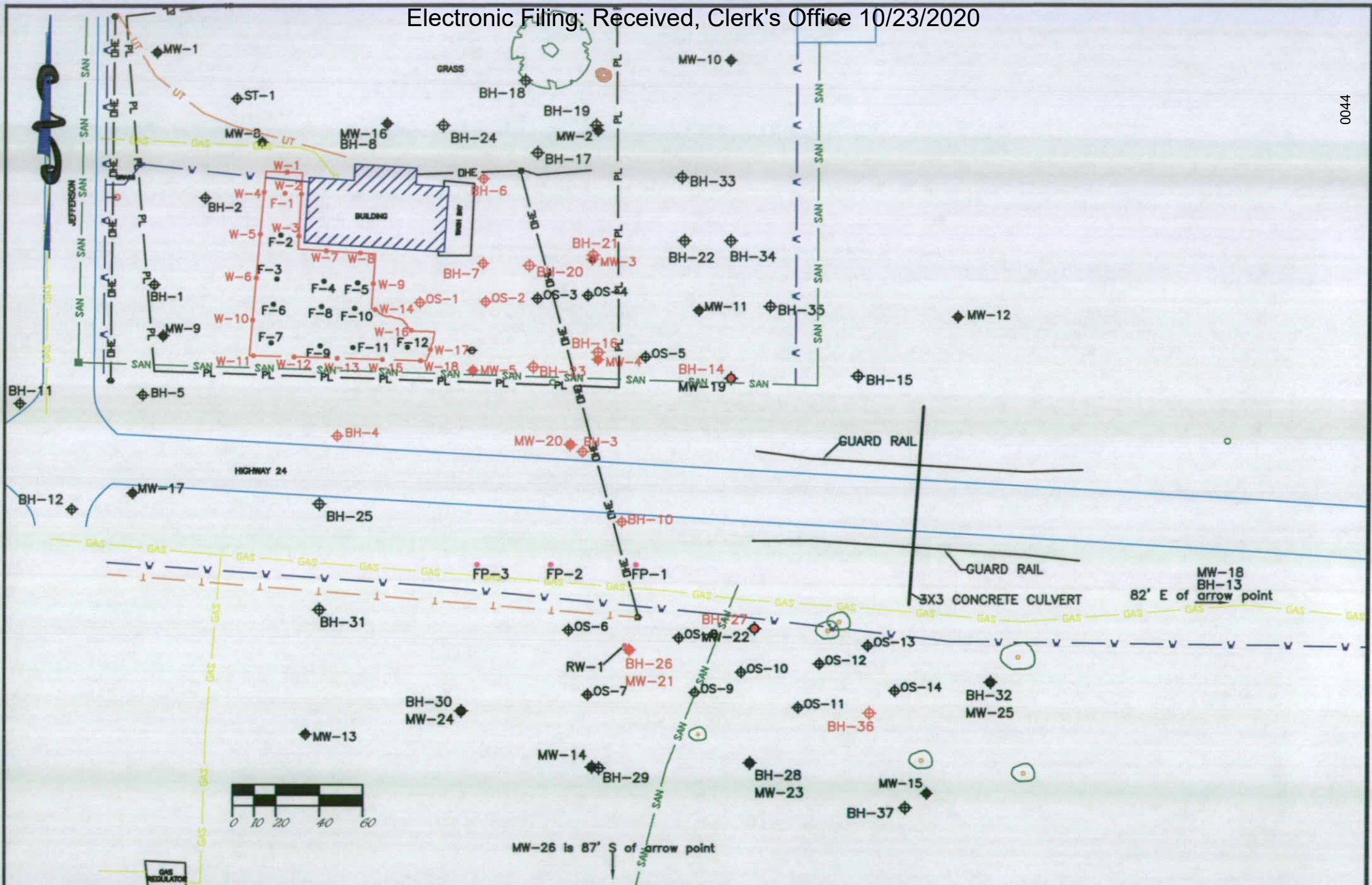
BOLD: Exceeds Class I Groundwater Standard

ND -- Not Detected

TABLE 4 (continued)
 GW PNA Analytical Summary
 (Reported in ppm)

Sample ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Class I Groundwater Standard		0.42	0.21	2.1	0.00013	0.0002	0.00018	0.21	0.00017	0.0015	0.0003	0.28	0.28	0.00043	0.14	0.21	0.21
MW-1	10/16/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	ND	ND
MW-4	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035	ND	ND
MW-5	10/16/14	ND	ND	0.0069	0.00094	0.00058	0.00055	0.00082	0.00012	0.0007	ND	0.0025	0.023	0.00015	3	0.0211	0.007
MW-9	10/16/14	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00019	ND	0.0145	0.00024	ND
MW-10	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-17	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-18	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-19	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-20	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	ND	ND
MW-21	10/16/14	0.0007	ND	0.0003	0.00009	ND	ND	ND	ND	ND	ND	ND	0.00078	ND	0.13	0.00078	0.0003
MW-22	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-23	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-24	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-25	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-26	10/16/14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold -- Exceeds Class I Groundwater Standard

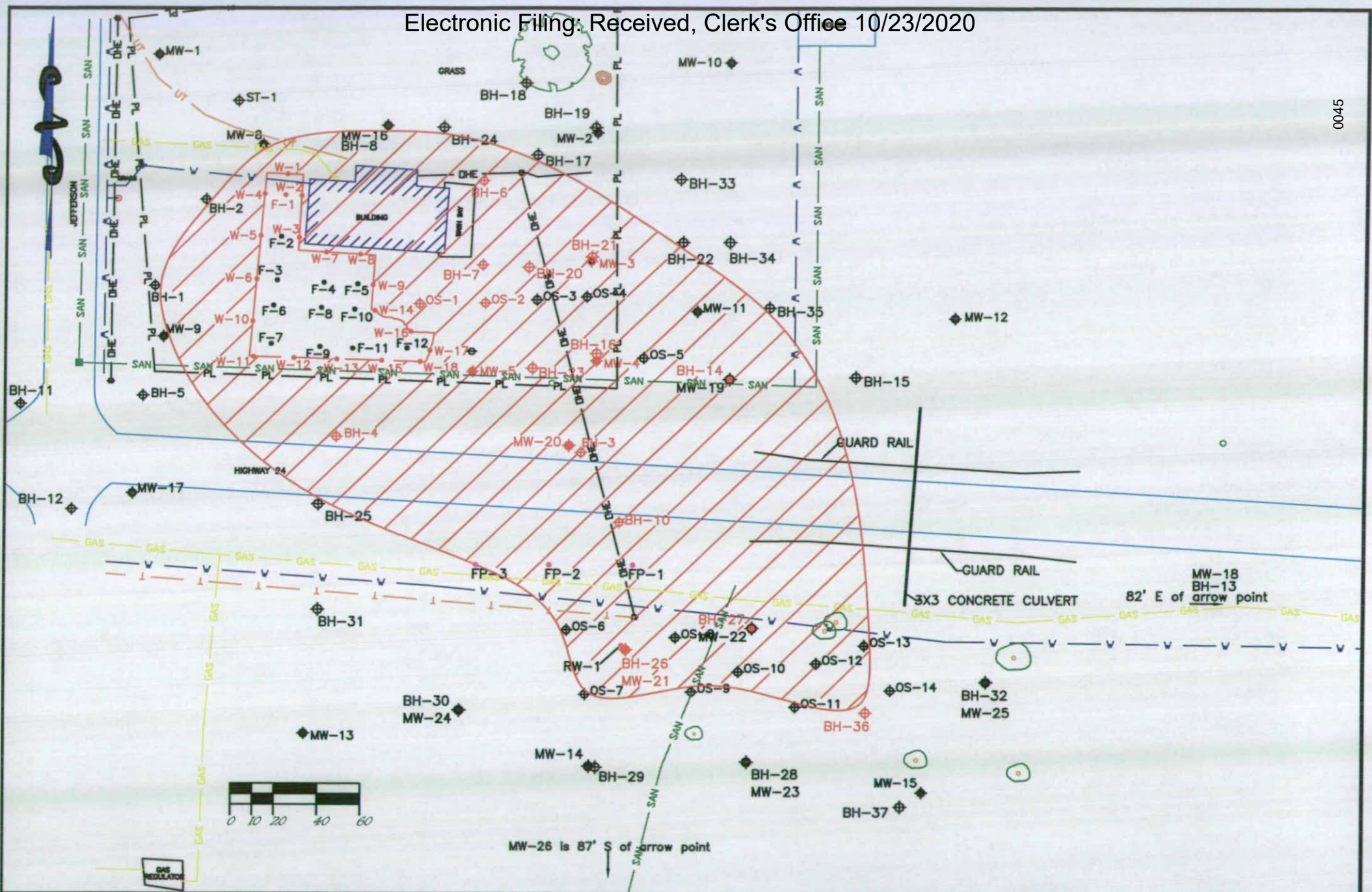


LEGEND	
SS	STORM SEWER
SAN	SANITARY SEWER
W	WATER LINE
GAS	GAS LINE
T	TELEPHONE LINE
PL	PROPERTY LINE
DHE	OVERHEAD ELECTRIC
UE	UNDERGROUND ELECTRIC
◆	SOIL BORING—BH
◆	MONITORING WELL—MW
◆	MONITORING WELL WITH SOIL SAMPLING—BH/MW
●	EARLY ACTION SAMPLE
●	RED FONT > TIER I RO

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO.: F0908004
CHECKED BY:	TITLE SITE MAP
DATE: JAN 2015	SAMPLE LOCATIONS
SCALE: SCALE 1"=60'	DWG. NO. FIGURE 1

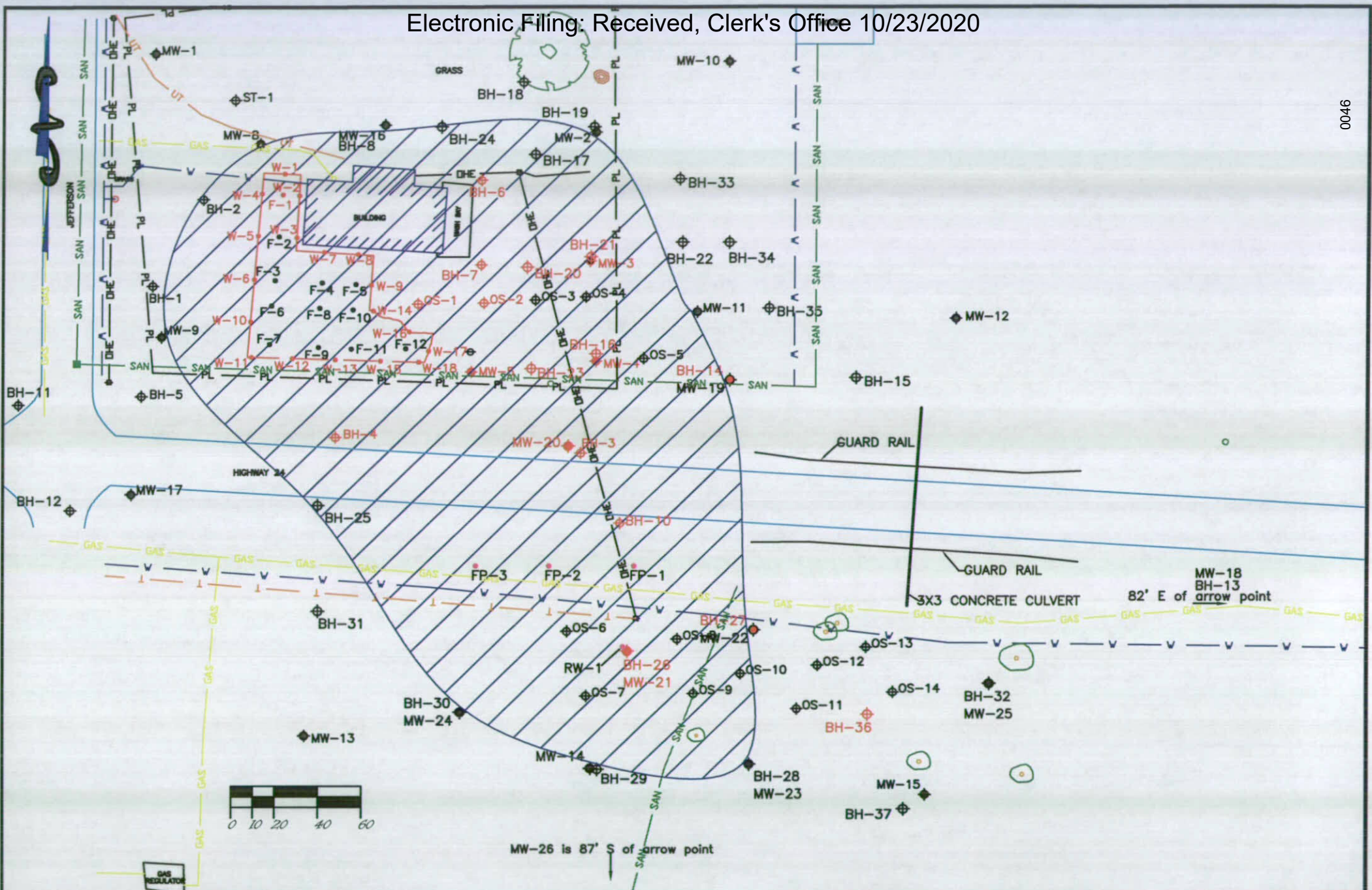


LEGEND	
	STORM SEWER
	SANITARY SEWER
	WATER LINE
	GAS LINE
	TELEPHONE LINE
	PROPERTY LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	SOIL BORING—BH
	MONITORING WELL—MW
	MONITORING WELL WITH SOIL SAMPLING—BH/MW
	EARLY ACTION SAMPLE
	SOIL PLUME
	RED FONT > TIER I RO

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO. F0908004
CHECKED BY:	TITLE SITE MAP
DATE JAN 2015	SOIL PLUME
SCALE SCALE 1"=60'	DWG NO. FIGURE 2

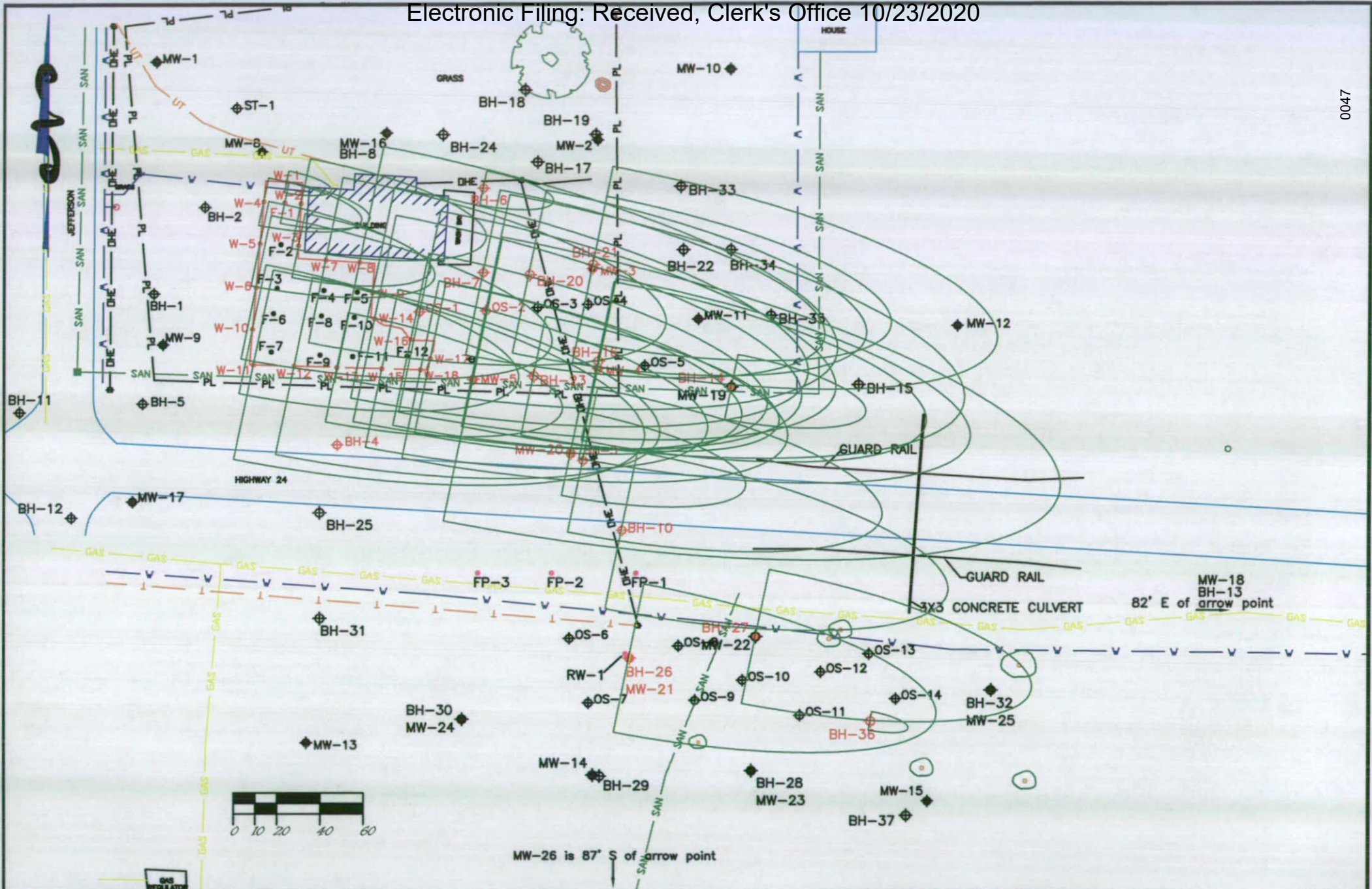


LEGEND	
—SS—	STORM SEWER
—SAN—	SANITARY SEWER
—W—	WATER LINE
—GAS—	GAS LINE
—T—	TELEPHONE LINE
—PL—	PROPERTY LINE
—OHS—	OVERHEAD ELECTRIC
—UE—	UNDERGROUND ELECTRIC
◆	SOIL BORING—BH
◆	MONITORING WELL—MW
◆	MONITORING WELL WITH SOIL SAMPLING—BH/MW
●	EARLY ACTION SAMPLE
● (Red)	RED FONT > TIER I RO
[Hatched Box]	GROUNDWATER PLUME

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO. F0908004
CHECKED BY:	TITLE SITE MAP
DATE JAN 2015	GW PLUME
SCALE SCALE 1"=60'	DWG NO. FIGURE 3

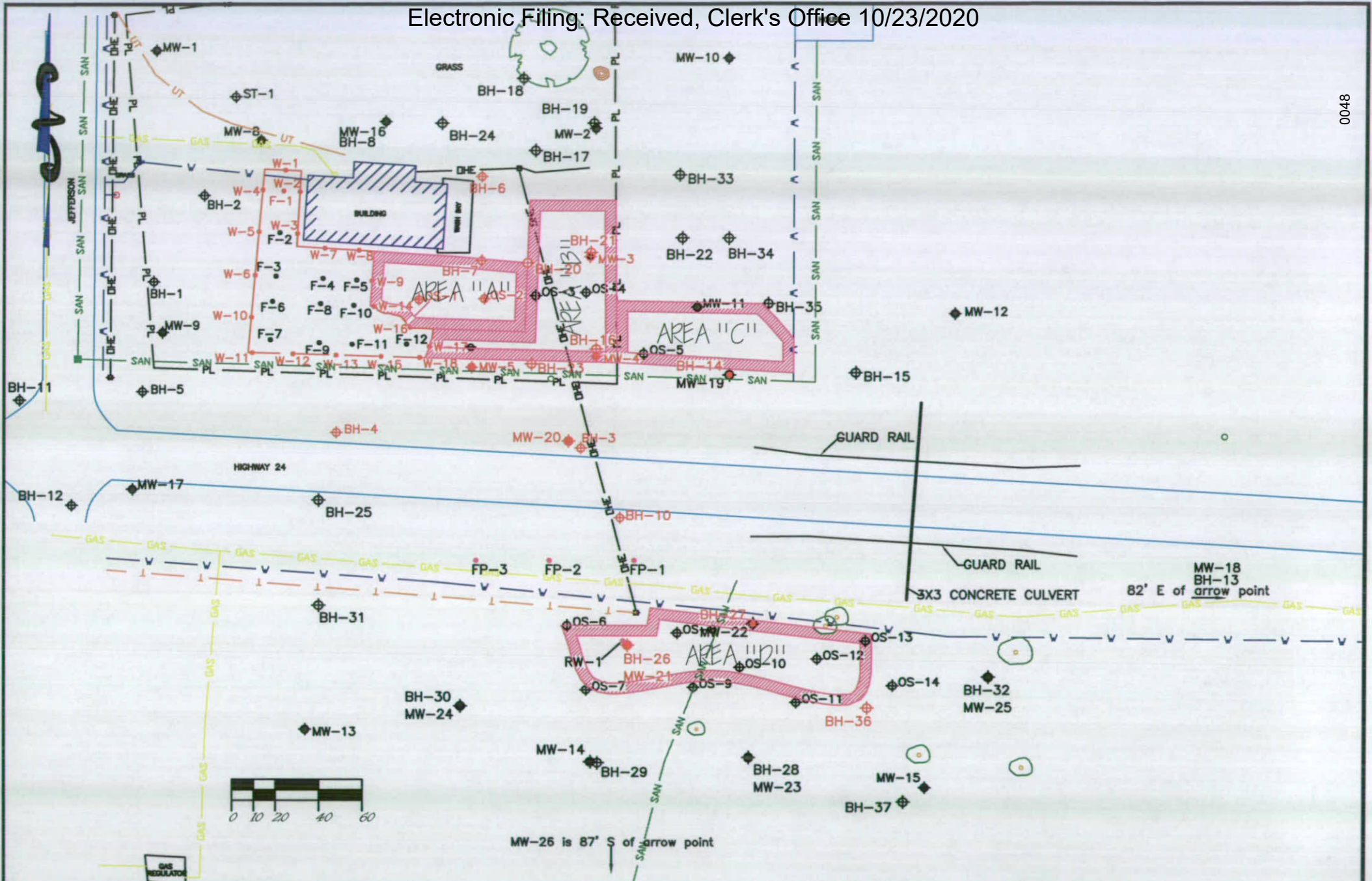


LEGEND	
—SS	STORM SEWER
—SAN	SANITARY SEWER
—W	WATER LINE
—GAS	GAS LINE
—T	TELEPHONE LINE
—PL	PROPERTY LINE
—OHE	OVERHEAD ELECTRIC
—UE	UNDERGROUND ELECTRIC
◆	SOIL BORING—BH
◆	MONITORING WELL—MW
◆	MONITORING WELL WITH SOIL SAMPLING—BH/MW
●	EARLY ACTION SAMPLE
●	RED FONT > TIER I RO

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO.: F0908004
CHECKED BY:	TITLE: SITE MAP
DATE: JAN 2015	R-26 MODELING
SCALE: SCALE 1"=60'	DWG. NO. FIGURE 4

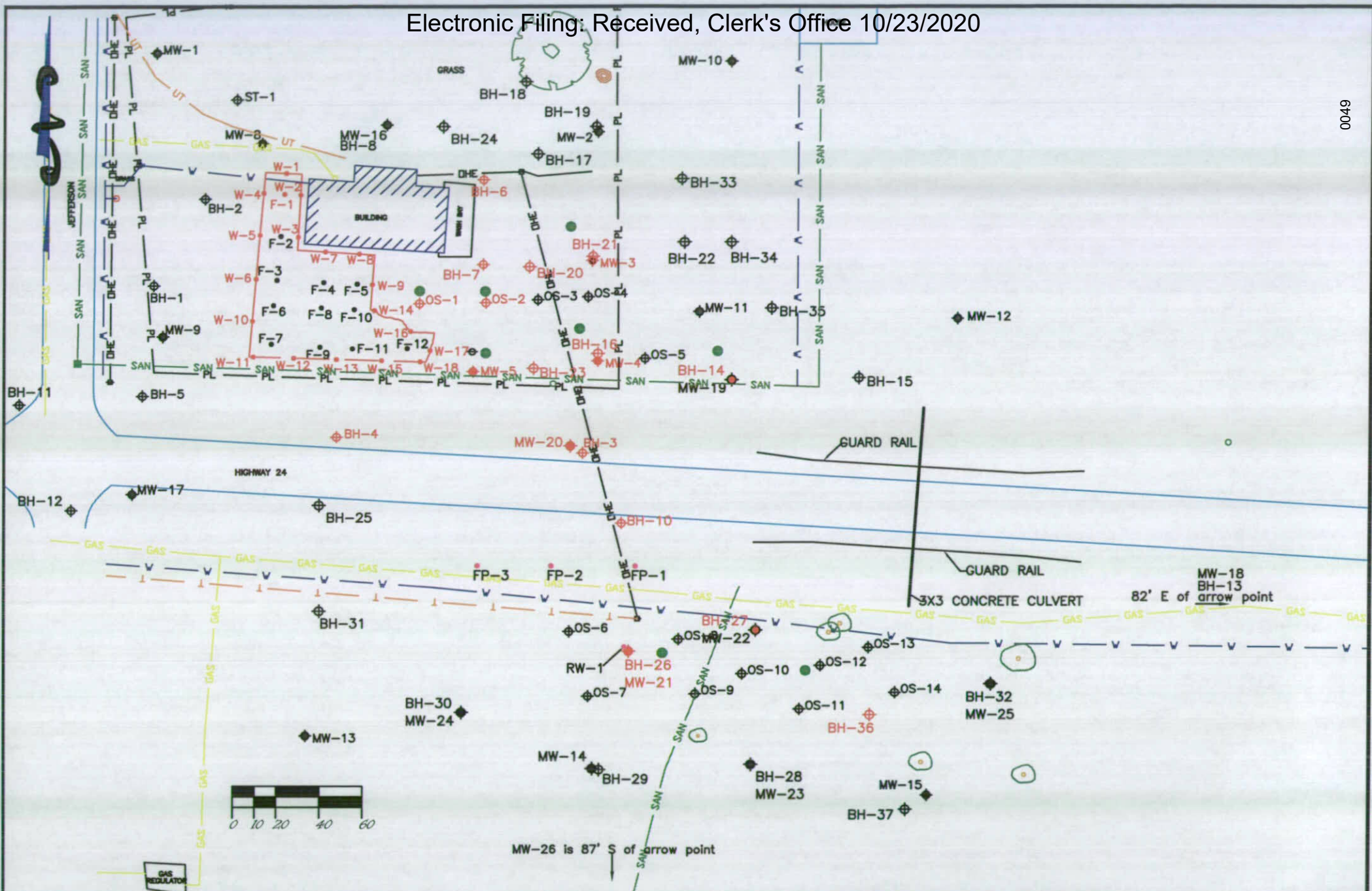


SS	STORM SEWER	◆	SOIL BORING-BH	◆	MONITORING WELL-MW
SAN	SANITARY SEWER	◆	MONITORING WELL WITH SOIL SAMPLING-BH/MW	◆	
W	WATER LINE	●	EARLY ACTION SAMPLE	●	RED FONT > TIER I RO
GAS	GAS LINE	□	PROPOSED DIG AREAS		
T	TELEPHONE LINE				
PL	PROPERTY LINE				
OHE	OVERHEAD ELECTRIC				
UE	UNDERGROUND ELECTRIC				

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 95101Z



PROJECT NAME: Parker's Gas N More	
DRAWN BY: K.T.	PROJECT NO. F0908004
CHECKED BY:	TITLE: SITE MAP
DATE: JAN 2015	PROPOSED EXCAVAT.
SCALE: SCALE 1"=60'	DWG. NO. FIGURE 5

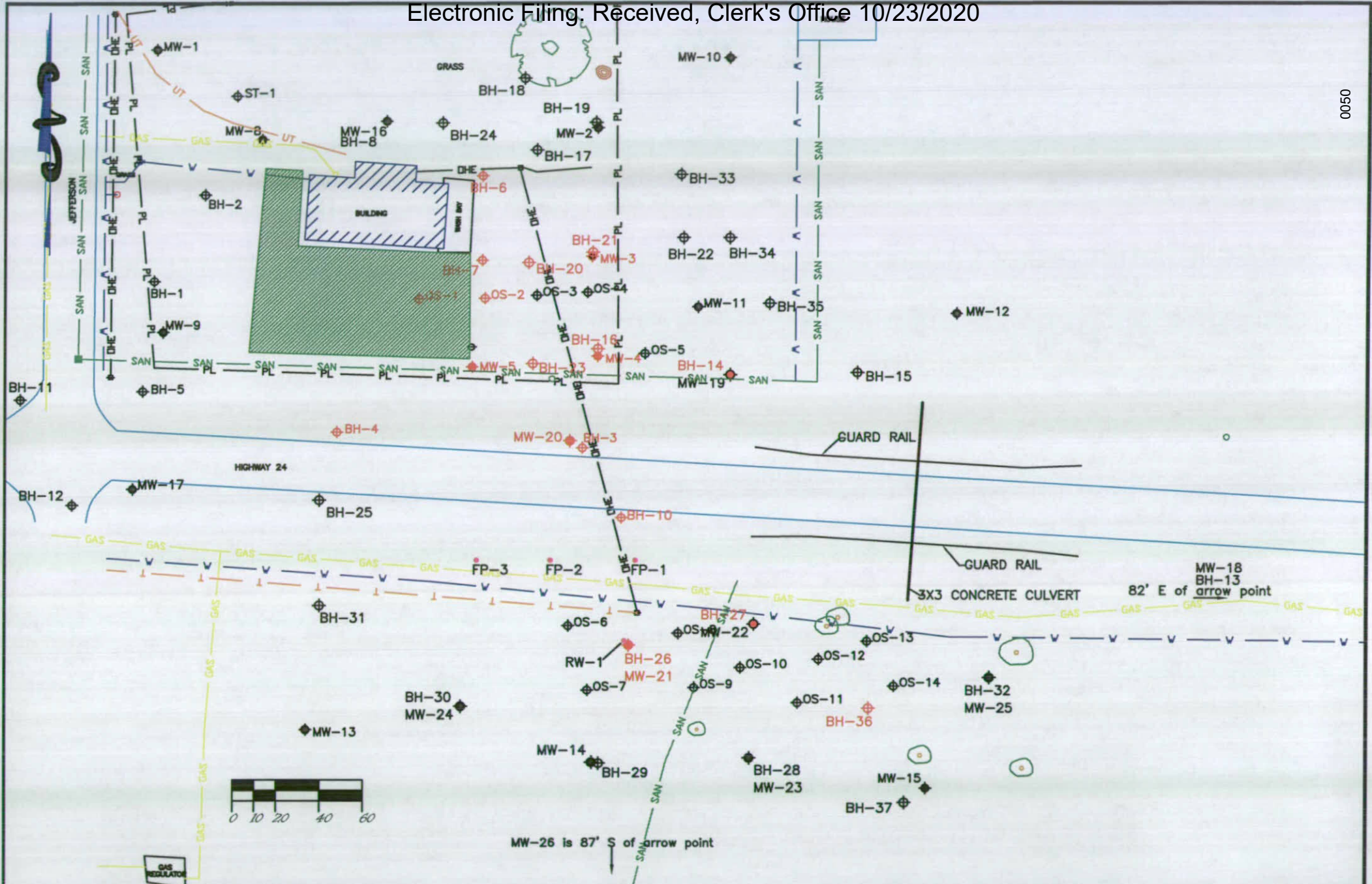


LEGEND	
—OS—	STORM SEWER
—SAN—	SANITARY SEWER
—W—	WATER LINE
—GAS—	GAS LINE
—T—	TELEPHONE LINE
—PL—	PROPERTY LINE
—OHE—	OVERHEAD ELECTRIC
—UE—	UNDERGROUND ELECTRIC
◆	SOIL BORING—BH
◆	MONITORING WELL—MW
◆	MONITORING WELL WITH SOIL SAMPLING—BH/MW
●	EARLY ACTION SAMPLE
●	PROPOSED MW WELLS
●	RED FONT > TIER I RO

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO. F0908004
CHECKED BY:	TITLE: SITE MAP
DATE: JAN 2015	PROPOSED WELLS
SCALE: SCALE 1"=60'	DWG. NO. FIGURE 6

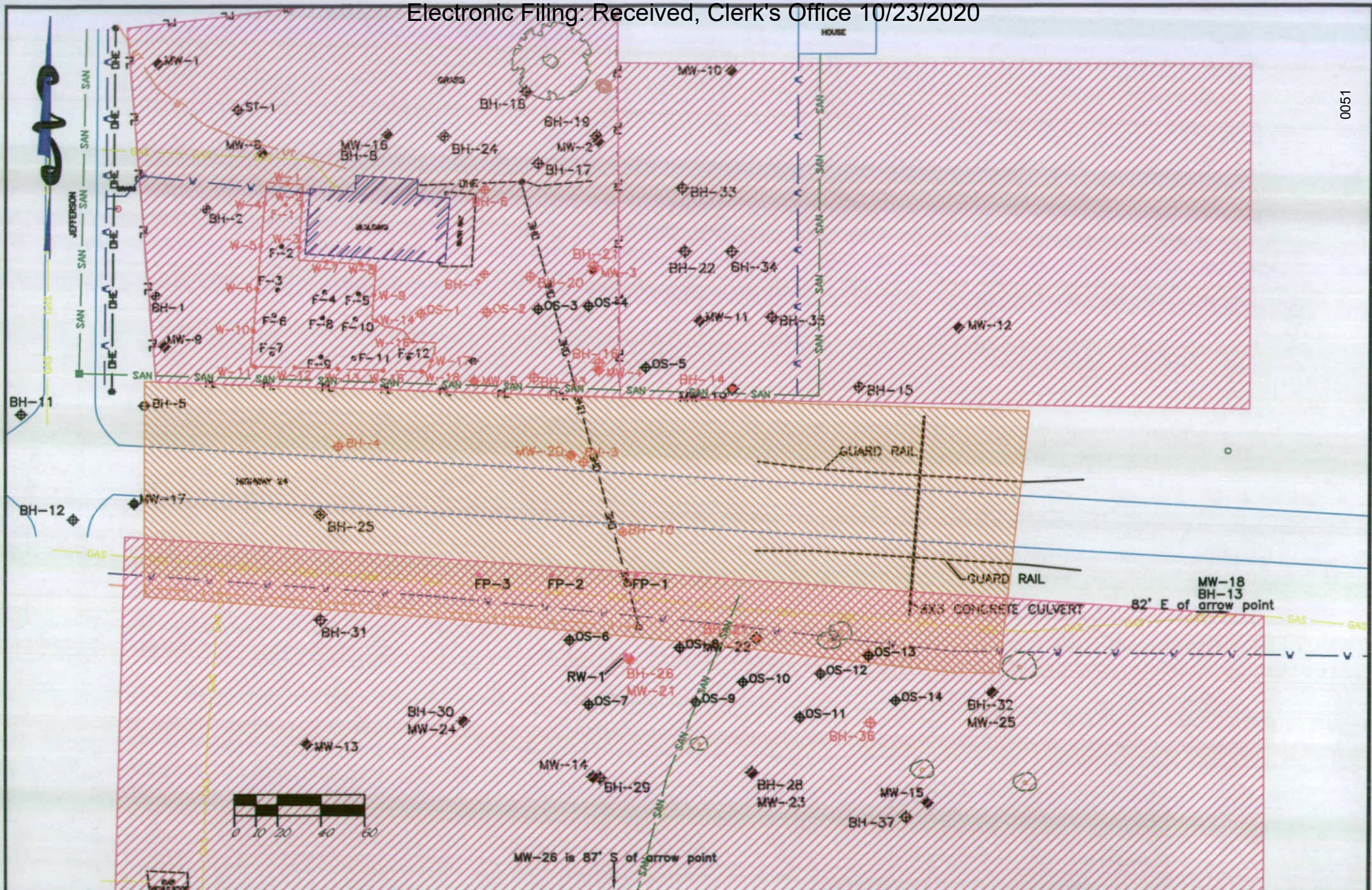


SS	STORM SEWER	◆	SOIL BORING-BH	◆	MONITORING WELL-MW
SAN	SANITARY SEWER	◆	MONITORING WELL WITH SOIL SAMPLING-BH/MW	◆	
W	WATER LINE	●	EARLY ACTION SAMPLE	●	RED FONT > TIER I ROe
Gas	GAS LINE	■	PROPOSED ASPHALT REPLACEMENT (5,700 SQ. FT.)		
T	TELEPHONE LINE				
PL	PROPERTY LINE				
OHE	OVERHEAD ELECTRIC				
UE	UNDERGROUND ELECTRIC				

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 95101Z



PROJECT NAME Parker's Gas N More	
DRAWN BY: K.T.	PROJECT NO. F0908004
CHECKED BY:	TITLE SITE MAP
DATE JAN 2015	REPLACEM'T ASPHALT
SCALE SCALE 1"=60'	DWG NO. FIGURE 7

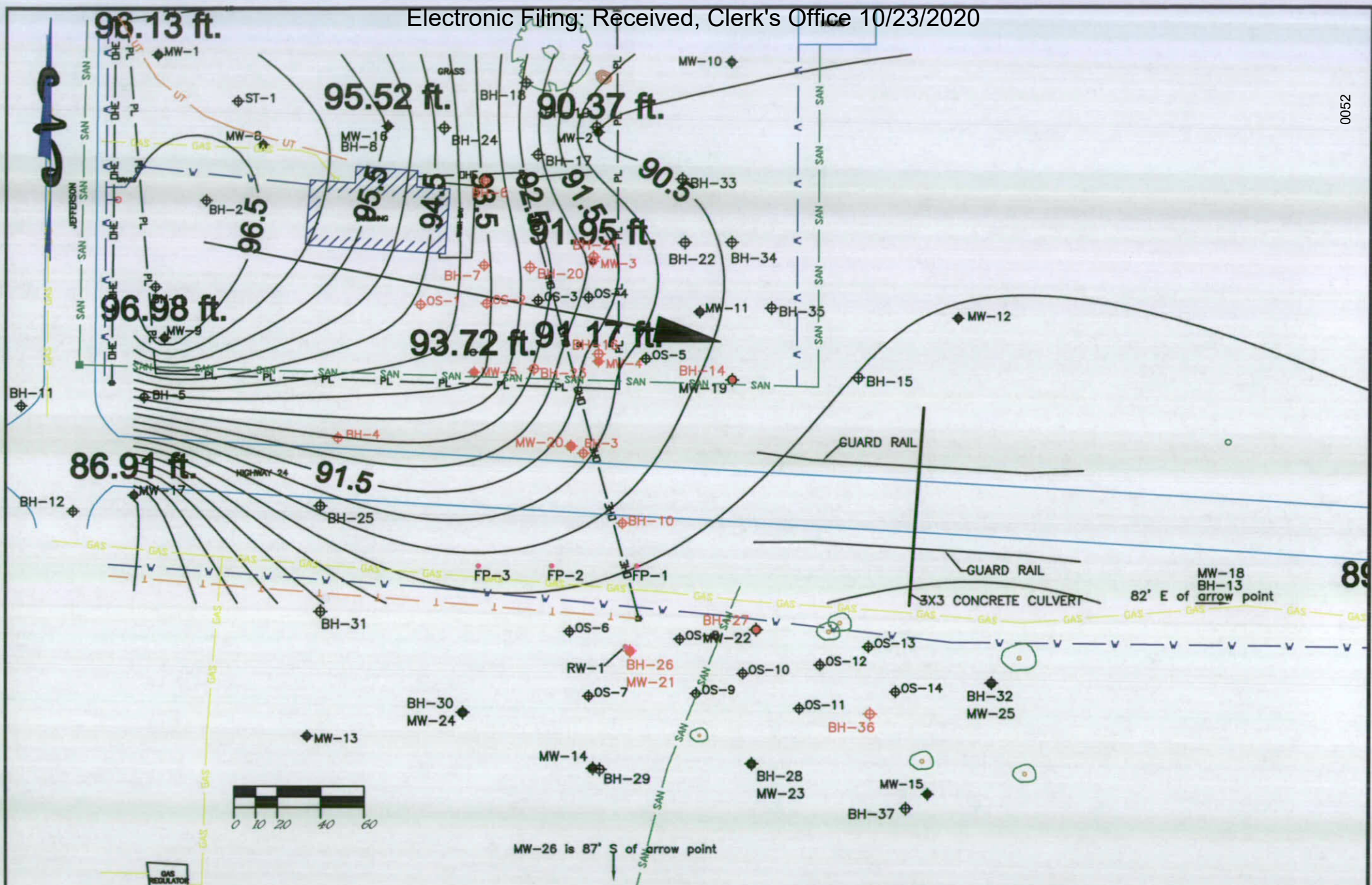


—SS—	STORM SEWER	◆	SOIL BORING—BH	◆	MONITORING WELL—MW
—SAN—	SANITARY SEWER	◆	MONITORING WELL WITH SOIL SAMPLING—BH/MW	◆	
—W—	WATER LINE	●	EARLY ACTION SAMPLE	●	RED FONT > TIER I RO
—G—	GAS LINE	▨	PROPOSED HMA	▨	
—T—	TELEPHONE LINE	▨	PROPERTIES COVERED BY CLAYTON GWO	▨	
—PL—	PROPERTY LINE				
—OHE—	OVERHEAD ELECTRIC				
—UE—	UNDERGROUND ELECTRIC				

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO.: F0908004
CHECKED BY:	TITLE: SITE MAP
DATE: JAN 2015	INST CONTROL MAP
SCALE: SCALE 1"=60'	DWG NO.: FIGURE 8

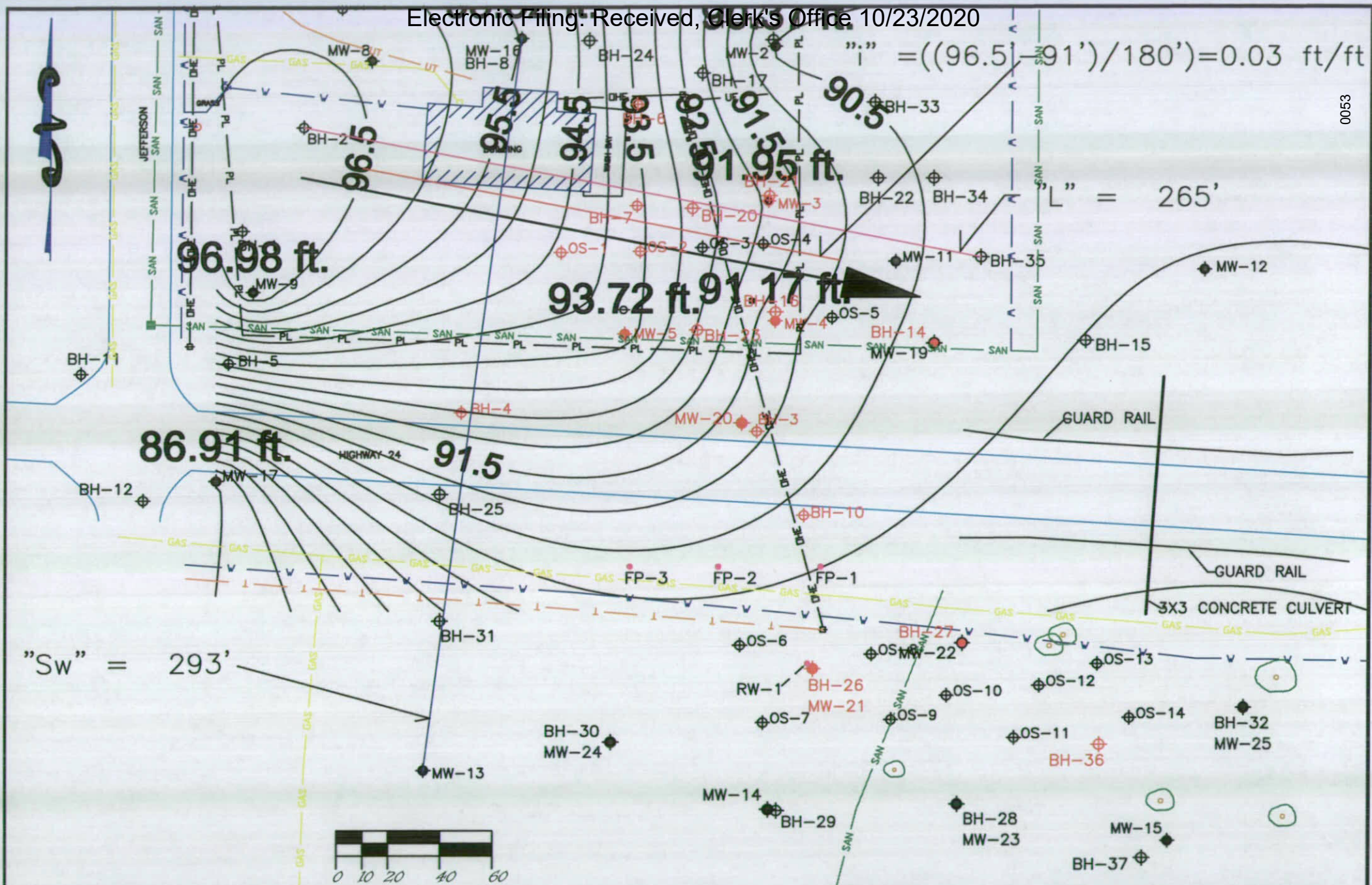


LEGEND	STORM SEWER	SOIL BORING-BH	MONITORING WELL-MW
	SANITARY SEWER	MONITORING WELL WITH SOIL SAMPLING-BH/MW	
	WATER LINE	EARLY ACTION SAMPLE	RED FONT > TIER I RO ₂
	GAS LINE		
	TELEPHONE LINE		
	PROPERTY LINE		
	OVERHEAD ELECTRIC		
	UNDERGROUND ELECTRIC		

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY KT	PROJECT NO. F0908004
CHECKED BY.	TITLE SITE MAP
DATE JAN 2015	GW FLOW MAP
SCALE SCALE 1"=60'	DWG NO. FIGURE 9



LEGEND	
	STORM SEWER
	SANITARY SEWER
	WATER LINE
	GAS LINE
	TELEPHONE LINE
	PROPERTY LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	SOIL BORING-BH
	MONITORING WELL-MW
	MONITORING WELL WITH SOIL SAMPLING-BH/MW
	EARLY ACTION SAMPLE RED FONT > TIER 1 RO

LPC# 0010105006
 Adams County
 101 East Outer Belt Drive
 Clayton, IL
 LUST Incident No. 951012



PROJECT NAME Parker's Gas N More	
DRAWN BY: KT	PROJECT NO.: F0908004
CHECKED BY:	TITLE: SITE MAP
DATE: JAN 2015	MODEL PARAMETER MAP
SCALE: SCALE 1"=50'	DWG NO.: FIGURE 10

APPENDIX A
TACO Equations

TACO TIER 2 SSL EQUATIONS

Electronic Filing: Received, Clerk's Office 10/23/2020

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006

Site Name: Parker's Gas & More

Site Address (not a P.O. Box): 101 East Outer Belt Drive

City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equation(s) Used: S6 S7 S8 S9 S10 S17 S18 S19 S20 S21 S22 S24 S25 S29

Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740

Land Use: Industrial/Commercial - Benzene Soil Type: Silt Clay Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: 0.5 1 2 5 10 30

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Input Value	Unit	Symbol	
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation (CW)
--	yr	AT	- Average time for noncarcinogens in Inhalation equation
--	yr	AT	- Average time for noncarcinogens in Inhalation equation (CW)
70	yr	AT _c	- Averaging time for Carcinogens
--	kg	BW	- Body Weight (noncarcinogens)
70	kg	BW	- Body Weight (carcinogens)
70	kg	BW	- Body Weight (CW)
1389.38	mg/kg	C _{soil}	- Soil Saturation Concentration
0.1000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
1.99E-05	cm ² /s	D _a	- Apparent Diffusivity
8.80E-02	cm ² /s	D _i	- Diffusivity in Air
1.02E-05	cm ² /s	D _w	- Diffusivity in Water
20	unitless	DF	- Dilution Factor
--	yr	ED	- Exposure duration for ingestion of carcinogens
--	yr	ED	- Exposure duration for ingestion of carcinogens (CW)
--	yr	ED	- Exposure duration for ingestion of noncarcinogens
--	yr	ED	- Exposure duration for ingestion of noncarcinogens (CW)
25	yr	ED	- Exposure duration for inhalation of carcinogens
1	yr	ED	- Exposure duration for inhalation of carcinogens (CW)
--	yr	ED	- Exposure duration for inhalation of noncarcinogens
--	yr	ED	- Exposure duration for inhalation of noncarcinogens (CW)
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
1	yr	ED	- Exposure duration for the direct ingestion of groundwater (CW)
--	yr	ED _{ML}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
--	unitless	F(x)	- Function dependent on U _w /U _i
0.0109	g/g	foc	- Fractional Organic Carbon
0.00500	mg/L	GW _{obj}	- Groundwater remediation objective
0.23000	unitless	H'	- Henry's Law Constant (25 C)
0.13400	unitless	H	- Henry's Law Constant (13 C) for Indoor Inh Exp.
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	i	- Infiltration Rate
--	m/yr	i _{ML}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
--	(mg-yr)/(kg-d)	IF _{adj-cg}	- Age adjusted Soil Ingestion Factor for Carcinogens
50	mg/d	IR _{soil}	- Soil Ingestion Rate
480	mg/d	IR _{sw}	- Soil Ingestion Rate (Construction Worker)
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
0.545	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Inorganics)
50.00000	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow 265
--	m ³ /kg	PEF	- Particulate Emission Factor
--	m ³ /kg	PEF'	- Particulate Emission Factor adjusted for Agitation (construction worker)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF CW equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF CW equations)
3.00E-02	mg/m ³	RfC	- Inhalation Reference Concentration
8.00E-02	mg/m ³	RfC	- Inhalation Reference Concentration (CW)

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

4.00E-03	mg/(kg-d)	RfD _o	-	Oral Reference Dose
1.00E-02	mg/(kg-d)	RfD _o	-	Oral Reference Dose (CW)
1.80E+03	mg/L	S	-	Solubility in Water
5.50E-02	(mg/kg-d) ¹	SF _o	-	Oral Slope Factor
7.90E+08	s	T	-	Exposure Interval
3.60E+06	s	T	-	Exposure Interval (Construction Worker)
--	yr	T _{ML}	-	Exposure Interval for Mass-Limit Volatilization Factor Equation S26
--	unitless	THQ	-	Target Hazard Quotient
0.000001	unitless	TR	-	Target Cancer Risk
0.000001	unitless	TR	-	Target Cancer Risk (Construction Worker)
--	m/s	U _m	-	Mean Annual Wind speed
7.80E-06	(ug/m ³) ⁻¹	URF	-	Inhalation Unit Risk Factor
--	m/s	U _i	-	Equivalent Threshold Value of Wind speed at 7m
--	unitless	V	-	Fraction of Vegative Cover
30120.35	m ³ /kg	VF	-	Volatilization Factor
203.33	m ³ /kg	VF'	-	Volatilization Factor adjusted for Agitation
--	m ³ /kg	VF _{ML}	-	Mass-Limit Volatilization Factor
--	m ³ /kg	VF _{ML} '	-	Mass-Limit Volatilization Factor adjusted for Agitation
0.420	L _{porv} /L _{soil}	η	-	Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	-	Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	-	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	-	Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	-	Soil Particle Density
1	unitless	ρ _w	-	Water Density
0.054	unitless	1/(2b+3)	-	Exponential in Equation S20

Equation	Result	Unit(s)
S1 =	--	mg/kg
S1 (CW) =	--	mg/kg
S2 =	--	mg/kg
S3 =	--	mg/kg
S3 (CW) =	--	mg/kg
S4 =	--	mg/kg
S5 =	--	mg/kg
S6 =	15.786	mg/kg
S7 =	22.201	mg/kg
S17 =	0.077	mg/kg
S28 =	--	mg/kg
S29 =	1389.38	mg/kg
S30 =	--	mg/m ³
S30 (CW) =	--	mg/m ³

Industrial/Commercial Ingestion Tier II Objective for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Residential Ingestion Tier II Benzene Carcinogenic Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot IR_{soil-eg}} = \frac{-- \cdot -- \cdot --}{-- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Ingestion Tier II Benzene Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Benzene Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Inhalation Non-Carcinogenic Tier II Remediation Objective

$$S-4 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{-- \cdot -- \cdot --}{-- \cdot -- \cdot (-- \cdot --)} = -- \text{ mg/kg}$$

Construction Worker Inhalation Non-Carcinogenic Tier II Remediation Objective

$$S-5 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{-- \cdot -- \cdot --}{-- \cdot -- \cdot (-- \cdot --)} = -- \text{ mg/kg}$$

Industrial/Commercial Inhalation Tier II Benzene Carcinogenic Objective

$$S-6 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{0.000001 \cdot 70 \cdot 365}{7.80E-06 \cdot 1000 \cdot 250 \cdot 25 \cdot 3.32E-05} = 15.79 \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Construction Worker Inhalation Tier II Benzene Carcinogenic Objective

$$S-7 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{0.000001 \cdot 70 \cdot 365}{7.80E-06 \cdot 1000 \cdot 30 \cdot 1 \cdot 0.004918} = 22.20 \text{ mg/kg}$$

Industrial/Commercial VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 1.99E-05 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 1.99E-05} = 3.01E+04 \text{ m}^3/\text{kg}$$

Construction Worker VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 1.99E-05 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 1.99E-05} = 2.03E+03 \text{ m}^3/\text{kg}$$

Equation for Derivation of Volatilization Factor - Construction Worker VF

$$S-9 = \frac{VF}{10} = \frac{2033.28}{10} = 203.33 \text{ m}^3/\text{kg}$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = \frac{(\theta_a^{3.33} \cdot D_i \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_a \cdot H')}$$

$$= \frac{(0.000199 \cdot 8.80E-02 \cdot 2.30E-01) + (2.83E-02 \cdot 1.02E-05)}{0.176461319} \cdot \frac{1}{(1.589 \cdot 0.545) + 0.342718 + (0.077 \cdot 2.30E-01)} = 1.99E-05$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-11 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{- \cdot - \cdot -} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{- \cdot - \cdot -} = - \text{ mg/kg}$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-13 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{- \cdot - \cdot - \cdot - \cdot 25 \cdot -} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-14 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{- \cdot - \cdot - \cdot - \cdot 1 \cdot -} = - \text{ mg/kg}$$

Industrial/Commercial Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_i)^3 \cdot F(x)} = \frac{-}{- \cdot (- \cdot - \cdot -) \cdot (-)^2} = - \text{ m}^3/\text{kg}$$

Construction Worker Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_i)^3 \cdot F(x)} = \frac{-}{- \cdot (- \cdot - \cdot -) \cdot (-)^2} = - \text{ m}^3/\text{kg}$$

Equation for Derivation of Particulate Emission Factor, PEF CW

$$S-16 = \frac{PEF}{10} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot [K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b}] = 0.1 \cdot [0.545 + \frac{0.342718 + 0.077 \cdot 2.30E-01}{1.589}] = 0.077 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{dq} = 20.00 \cdot 0.005 = 0.100$$

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 50.00 \cdot 0.0109 = 0.545$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{1(2p+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - S-20 = 0.42007 - 0.34272 = 0.077355$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot I \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$$

Tier II Class I Groundwater Ingestion

$$S-23 = \frac{TR \cdot BW \cdot A_c \cdot 365}{SF_a \cdot IR_w \cdot EF \cdot ED} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/L}$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_w \cdot (1 - \exp \frac{(-L \cdot I)}{(K \cdot I \cdot d_w)}) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot (1 - \exp \frac{(-80.772 \cdot 0.3)}{(42.889 \cdot 0.02979 \cdot 3.048)}) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_s \cdot 10^9} = -- \cdot \frac{-- \cdot (-- \cdot --)}{-- \cdot -- \cdot 10^9} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_s \cdot 10^9} = -- \cdot \frac{-- \cdot (-- \cdot --)}{-- \cdot -- \cdot 10^9} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-27 = VF_{ML} = \frac{VF_{ML}}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_s} = \frac{-- \cdot -- \cdot --}{-- \cdot --} = -- \text{ mg/kg}$$

Soil Saturation Limit

$$S-29 = \frac{S}{\rho_s} \cdot [(K_d \cdot \rho_b) + \theta_w + (H' \cdot \theta_a)] = \frac{1800}{1.589} \cdot [(0.545 \cdot 1.589) + 0.343 + (0.230 \cdot 0.077)] = 1,389 \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- \cdot -- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

Construction Worker Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- \cdot -- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006

Site Name: Parker's Gas & More

Site Address (not a P.O. Box): 101 East Outer Belt Drive

City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S4 S5 S8 S9 S10 S17 S18 S19 S20 S21 S22 S24 S25 S29

Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740

Land Use: Industrial/Commercial - Toluene Soil Type: Silt Clay Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: 0.5 1 2 5 10 30

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Input Value	Unit	Symbol	
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation (CW)
25	yr	AT	- Average time for noncarcinogens in Inhalation equation
0.115	yr	AT	- Average time for noncarcinogens in Inhalation equation (CW)
--	yr	AT _c	- Averaging time for Carcinogens
70	kg	BW	- Body Weight (noncarcinogens)
--	kg	BW	- Body Weight (carcinogens)
70	kg	BW	- Body Weight (CW)
1034.07	mg/kg	C _{sat}	- Soil Saturation Concentration
20.0000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
9.02E-06	cm ² /s	D _A	- Apparent Diffusivity
8.70E-02	cm ² /s	D _i	- Diffusivity in Air
8.60E-06	cm ² /s	D _w	- Diffusivity in Water
20	unitless	DF	- Dilution Factor
--	yr	ED	- Exposure duration for ingestion of carcinogens
--	yr	ED	- Exposure duration for ingestion of carcinogens (CW)
--	yr	ED	- Exposure duration for ingestion of noncarcinogens
--	yr	ED	- Exposure duration for ingestion of noncarcinogens (CW)
--	yr	ED	- Exposure duration for inhalation of carcinogens
--	yr	ED	- Exposure duration for inhalation of carcinogens (CW)
25	yr	ED	- Exposure duration for inhalation of noncarcinogens
1	yr	ED	- Exposure duration for inhalation of noncarcinogens (CW)
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
1	yr	ED	- Exposure duration for the direct ingestion of groundwater (CW)
--	yr	ED _{MLL}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
--	unitless	F(x)	- Function dependent on U _n /U _i
0.0109	g/g	foc	- Fractional Organic Carbon
1.00000	mg/L	GW _{obj}	- Groundwater remediation objective
0.27100	unitless	H'	- Henry's Law Constant (25 C)
0.14900	unitless	H	- Henry's Law Constant (13 C) for Indoor Inh Exp.
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	I	- Infiltration Rate
--	m/yr	I _{MLL}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
--	(mg-yr)/(kg-d)	IF _{adj-carc}	- Age adjusted Soil Ingestion Factor for Carcinogens
50	mg/d	IR _{soil}	- Soil Ingestion Rate
480	mg/d	IR _{soil}	- Soil Ingestion Rate (Construction Worker)
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
1.7222	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _{ow}	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _v	- Soil-Water Partition Coefficient (Inorganics)
158.00000	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow 265
--	m ³ /kg	PEF	- Particulate Emission Factor
--	m ³ /kg	PEF'	- Particulate Emission Factor adjusted for Agitation (construction worker)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF CW equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF CW equations)
5.00E+00	mg/m ³	RfC	- Inhalation Reference Concentration
5.00E+00	mg/m ³	RfC	- Inhalation Reference Concentration (CW)

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

8.00E-02	mg/(kg-d)	RfD _o	-	Oral Reference Dose
8.00E-01	mg/(kg-d)	RfD _c	-	Oral Reference Dose (CW)
5.30E+02	mg/L	S	-	Solubility in Water
--	(mg/kg-d) ⁻¹	SF _o	-	Oral Slope Factor
7.90E+08	s	T	-	Exposure Interval
3.60E+06	s	T	-	Exposure Interval (Construction Worker)
-	yr	T _{Mt}	-	Exposure Interval for Mass-Limit Volatilization Factor Equation S26
1	unitless	THQ	-	Target Hazard Quotient
--	unitless	TR	-	Target Cancer Risk
--	unitless	TR	-	Target Cancer Risk (Construction Worker)
--	m/s	U _m	-	Mean Annual Wind speed
--	(ug/m ³) ⁻¹	URF	-	Inhalation Unit Risk Factor
-	m/s	U _i	-	Equivalent Threshold Value of Wind speed at 7m
-	unitless	V	-	Fraction of Vegative Cover
44784.68	m ³ /kg	VF	-	Volatilization Factor
302.32	m ³ /kg	VF [*]	-	Volatilization Factor adjusted for Agitation
-	m ³ /kg	VF _{Mt}	-	Mass-Limit Volatilization Factor
-	m ³ /kg	VF _{Mt} [*]	-	Mass-Limit Volatilization Factor adjusted for Agitation
0.420	L _{porf} /L _{soil}	η	-	Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	-	Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	-	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _p	-	Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	-	Soil Particle Density
1	unitless	ρ _w	-	Water Density
0.054	unitless	1/(2b+3)	-	Exponential in Equation S20

Equation	Result	Unit(s)
S1 =	--	mg/kg
S1 (CW) =	--	mg/kg
S2 =	--	mg/kg
S3 =	--	mg/kg
S3 (CW) =	--	mg/kg
S4 =	1034.070	mg/kg
S5 =	1034.070	mg/kg
S6 =	--	mg/kg
S7 =	--	mg/kg
S17 =	39.021	mg/kg
S28 =	--	mg/kg
S29 =	1034.07	mg/kg
S30 =	--	mg/m ³
S30 (CW) =	--	mg/m ³

Industrial/Commercial Ingestion Tier II Toluene Objective for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Toluene Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Residential Ingestion Tier II Carcinogenic Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot IR_{soil}} = \frac{-- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Inhalation Non-Carcinogenic Tier II Toluene Remediation Objective

$$S-4 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 25 \cdot 365}{250 \cdot 25 \cdot (2.00E-01 \cdot 2.23E-05)} = 326928.18 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 1034.07 mg/kg.

Construction Worker Inhalation Non-Carcinogenic Tier II Toluene Remediation Objective

$$S-5 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 0.115 \cdot 365}{30 \cdot 1 \cdot (2.00E-01 \cdot 0.003308)} = 2114.98 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 1034.07 mg/kg.

Industrial/Commercial Inhalation Tier II Carcinogenic Objective

$$S-6 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-- \cdot -- \cdot 365}{-- \cdot 1000 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Construction Worker Inhalation Tier II Carcinogenic Objective

$$S-7 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{--}{--} = -- \text{ mg/kg}$$

Industrial/Commercial VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 9.02E-06 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 9.02E-06} = 4.48E+04 \text{ m}^3/\text{kg}$$

Construction Worker VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 9.02E-06 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 9.02E-06} = 3.02E+03 \text{ m}^3/\text{kg}$$

Equation for Derivation of Volatilization Factor - Construction Worker VF'

$$S-9 = \frac{VF}{10} = \frac{3023.20}{10} = 302.32 \text{ m}^3/\text{kg}$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = \frac{(\theta_a^{3.33} \cdot D_l \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_a \cdot H')}$$

$$= \frac{(0.000199 \cdot 8.70E-02 \cdot 2.71E-01) + (2.83E-02 \cdot 8.60E-06)}{0.176461319} \cdot \frac{1}{(1.589 \cdot 1.7222) + 0.342718 + (0.077 \cdot 2.71E-01)} = 9.02E-06$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-11 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RfC} \cdot \frac{1}{PEF}} = \frac{--}{--} = -- \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RfC} \cdot \frac{1}{PEF}} = \frac{--}{--} = -- \text{ mg/kg}$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-13 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{--}{--} = -- \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-14 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{--}{--} = -- \text{ mg/kg}$$

Industrial/Commercial Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U)^3 \cdot F(x)} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Construction Worker Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U)^3 \cdot F(x)} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

$$S-16 = \frac{PEF}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot [K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b}] = 20 \cdot [1.7222 + \frac{0.342718 + 0.077 \cdot 2.71E-01}{1.589}] = 39.021 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{dl} = 20.00 \cdot 1 = 20.000$$

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 158.00 \cdot 0.0109 = 1.7222$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{1^{1(2b+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - \dots = 0.42007 - 0.34272 = 0.077355$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot I \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$$

Tier II Class I Groundwater Ingestion

$$S-23 = \frac{TR \cdot BW \cdot A_{Tc} \cdot 365}{SF_a \cdot IR_w \cdot EF \cdot ED} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/L}$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_o \cdot (1 - \exp\left(\frac{-L \cdot I}{K \cdot I \cdot d_o}\right)) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot (1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right)) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_o \cdot 10^3} = \frac{--}{--} \cdot \frac{-- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^3} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_o \cdot 10^3} = \frac{--}{--} \cdot \frac{-- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^3} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-27 = VF_{ML} = \frac{VF_{ML}}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_o} = \frac{-- \cdot -- \cdot --}{-- \cdot --} = -- \text{ mg/kg}$$

Soil Saturation Limit

$$S-29 = \frac{S}{\rho_b} \cdot [(K_d \cdot \rho_b) + \theta_w + (H' \cdot \theta_a)] = \frac{530}{1.589} \cdot [(1.7222 \cdot 1.589) + 0.343 + (0.271 \cdot 0.077)] = 1,034 \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

Construction Worker Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006
 Site Name: Parker's Gas & More
 Site Address (not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equation(s) Used: S4 S5 S8 S9 S10 S17 S18 S19 S20 S21 S22 S24 S25 S29
 Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740
 Land Use: Industrial/Commercial - Ethylbenzene Soil Type: Silt Clay Loam
 Groundwater: Class I Class II
 Mass Limit: Yes No If Yes, then Specify Acreage: 0.5 1 2 5 10 30
 Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Input Value	Unit	Symbol	
--	yr	AT	- Average time for Noncarcinogens In Ingestion Equation
--	yr	AT	- Average time for Noncarcinogens In Ingestion Equation (CW)
25	yr	AT	- Average time for noncarcinogens in Inhalation equation
0.115	yr	AT	- Average time for noncarcinogens in Inhalation equation (CW)
--	yr	AT _c	- Averaging time for Carcinogens
70	kg	BW	- Body Weight (noncarcinogens)
--	kg	BW	- Body Weight (carcinogens)
70	kg	BW	- Body Weight (CW)
632.31	mg/kg	C _{sat}	- Soil Saturation Concentration
14.0000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
4.85E-06	cm ² /s	D _a	- Apparent Diffusivity
7.50E-02	cm ² /s	D _i	- Diffusivity in Air
7.80E-06	cm ² /s	D _w	- Diffusivity in Water
20	unitless	DF	- Dilution Factor
--	yr	ED	- Exposure duration for ingestion of carcinogens
--	yr	ED	- Exposure duration for ingestion of carcinogens (CW)
--	yr	ED	- Exposure duration for ingestion of noncarcinogens
--	yr	ED	- Exposure duration for ingestion of noncarcinogens (CW)
--	yr	ED	- Exposure duration for inhalation of carcinogens
--	yr	ED	- Exposure duration for inhalation of carcinogens (CW)
25	yr	ED	- Exposure duration for inhalation of noncarcinogens
1	yr	ED	- Exposure duration for inhalation of noncarcinogens (CW)
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
1	yr	ED	- Exposure duration for the direct ingestion of groundwater (CW)
--	yr	ED _{ML}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
--	unitless	F(x)	- Function dependent on U _w /U _i
0.0109	g/g	foc	- Fractional Organic Carbon
0.70000	mg/L	GW _{OH}	- Groundwater remediation objective
0.32400	unitless	H'	- Henry's Law Constant (25 C)
0.16400	unitless	H	- Henry's Law Constant (13 C) for Indoor Inh Exp.
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	I	- Infiltration Rate
--	m/yr	I _{ML}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
--	(mg-yr)/(kg-d)	IF _{adj-carc}	- Age adjusted Soil Ingestion Factor for Carcinogens
50	mg/d	IR _{soil}	- Soil Ingestion Rate
480	mg/d	IR _{soil}	- Soil Ingestion Rate (Construction Worker)
1	L/d	IR _{wy}	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
3.488	cm ³ /g or L/kg	K _o	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _o	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _o	- Soil-Water Partition Coefficient (Inorganics)
320.00000	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow 265
--	m ³ /kg	PEF	- Particulate Emission Factor
--	m ³ /kg	PEF'	- Particulate Emission Factor adjusted for Agitation (construction worker)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF CW equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF CW equations)
1.00E+00	mg/m ³	RfC	- Inhalation Reference Concentration
9.00E+00	mg/m ³	RfC	- Inhalation Reference Concentration (CW)

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

1.00E-01	mg/(kg-d)	RfD _o	-	Oral Reference Dose
5.00E-02	mg/(kg-d)	RfD _c	-	Oral Reference Dose (CW)
1.70E+02	mg/L	S	-	Solubility in Water
--	(mg/kg-d) ⁻¹	SF _o	-	Oral Slope Factor
7.90E+08	s	T	-	Exposure Interval
3.60E+06	s	T	-	Exposure Interval (Construction Worker)
--	yr	T _{max}	-	Exposure Interval for Mass-Limit Volatilization Factor Equation S26
1	unitless	THQ	-	Target Hazard Quotient
--	unitless	TR	-	Target Cancer Risk
--	unitless	TR	-	Target Cancer Risk (Construction Worker)
--	m/s	U _m	-	Mean Annual Wind speed
2.50E-06	(ug/m ³) ⁻¹	URF	-	Inhalation Unit Risk Factor
--	m/s	U _l	-	Equivalent Threshold Value of Wind speed at 7m
--	unitless	V	-	Fraction of Vegative Cover
61088.79	m ³ /kg	VF	-	Volatilization Factor
412.38	m ³ /kg	VF	-	Volatilization Factor adjusted for Agitation
--	m ³ /kg	VF _{ML}	-	Mass-Limit Volatilization Factor
--	m ³ /kg	VF _{ML}	-	Mass-Limit Volatilization Factor adjusted for Agitation
0.420	L _{soil} /L _{soil}	η	-	Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	-	Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	-	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	-	Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	-	Soil Particle Density
1	unitless	ρ _w	-	Water Density
0.054	unitless	1/(2b+3)	-	Exponential In Equation S20

Equation	Result	Unit(s)
S1 =	--	mg/kg
S1 (CW) =	--	mg/kg
S2 =	--	mg/kg
S3 =	--	mg/kg
S3 (CW) =	--	mg/kg
S4 =	632.310	mg/kg
S5 =	632.310	mg/kg
S6 =	--	mg/kg
S7 =	--	mg/kg
S17 =	52.072	mg/kg
S28 =	--	mg/kg
S29 =	632.31	mg/kg
S30 =	--	mg/m ³
S30 (CW) =	--	mg/m ³

Industrial/Commercial Ingestion Tier II Ethylbenzene Objective for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Ethylbenzene Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Residential Ingestion Tier II Carcinogenic Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot IF_{soil-eg}} = \frac{-- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot 365}{-- \cdot 10^6 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Inhalation Non-Carcinogenic Tier II Ethylbenzene Remediation Objective

$$S-4 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 25 \cdot 365}{250 \cdot 25 \cdot (1.00E+00 \cdot 1.64E-05)} = 89189.64 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 632.31 mg/kg.

Construction Worker Inhalation Non-Carcinogenic Tier II Ethylbenzene Remediation Objective

$$S-5 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 0.115 \cdot 365}{30 \cdot 1 \cdot (1.11E-01 \cdot 0.002425)} = 5192.91 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 632.31 mg/kg.

Industrial/Commercial Inhalation Tier II Carcinogenic Objective

$$S-6 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-- \cdot -- \cdot 365}{-- \cdot 1000 \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Construction Worker Inhalation Tier II Carcinogenic Objective

$$S-7 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 4.85E-06 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 4.85E-06} = 6.11E+04 \text{ m}^3/\text{kg}$$

Construction Worker VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 4.85E-06 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 4.85E-06} = 4.12E+03 \text{ m}^3/\text{kg}$$

Equation for Derivation of Volatilization Factor - Construction Worker VF

$$S-9 = \frac{VF}{10} = \frac{4123.82}{10} = 412.38 \text{ m}^3/\text{kg}$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = \frac{(\theta_w^{3.33} \cdot D_i \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_w \cdot H')}$$

$$= \frac{(0.000199 \cdot 7.50E-02 \cdot 3.24E-01) + (2.83E-02 \cdot 7.80E-06)}{0.176461319} \cdot \frac{1}{(1.589 \cdot 3.488) + 0.342718 + (0.077 \cdot 3.24E-01)} = 4.85E-06$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-11 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-13 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-14 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Construction Worker Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

$$S-16 = \frac{PEF}{10} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_w \cdot H')}{\rho_b} \right] = 14 \cdot \left[3.488 + \frac{0.342718 + 0.077 \cdot 3.24E-01}{1.589} \right] = 52.072 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{eq} = 20.00 \cdot 0.7 = 14.000$$

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 320.00 \cdot 0.0109 = 3.488$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{1^{1.25+3}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - S-20 = 0.42007 - 0.34272 = 0.077355$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot l \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$$

Tier II Class I Groundwater Ingestion

$$S-23 = \frac{TR \cdot BW \cdot A_{tc} \cdot 365}{SF_a \cdot IR_w \cdot EF \cdot ED} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/L}$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_w \cdot \left(1 - \exp\left(\frac{-L \cdot I}{K \cdot l \cdot d_w}\right)\right) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot \left(1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right)\right) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_s \cdot 10^6} = \frac{--}{--} \cdot \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_s \cdot 10^6} = \frac{--}{--} \cdot \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-27 = VF_{ML} = \frac{VF_{ML}}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_s} = \frac{-- \cdot -- \cdot --}{-- \cdot --} = -- \text{ mg/kg}$$

Soil Saturation Limit

$$S-29 = \frac{S}{\rho_b} \cdot [(K_d \cdot \rho_b) + \theta_w + (H' \cdot \theta_a)] = \frac{170}{1.589} \cdot [(3.488 \cdot 1.589) + 0.343 + (0.324 \cdot 0.077)] = 632 \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_s + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot --}{-- + -- + --} = -- \text{ mg/m}^3$$

Construction Worker Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_s + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot --}{-- + -- + --} = -- \text{ mg/m}^3$$

Electronic Filing: Received, Clerk's Office 10/23/2020

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006

Site Name: Parker's Gas & More

Site Address (not a P.O. Box): 101 East Outer Belt Drive

City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equation(s) Used: S4 S5 S8 S9 S10 S17 S18 S19 S20 S21 S22 S24 S25 S29

Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740

Land Use: Industrial/Commercial - Total Xylenes Soil Type: Silt Clay Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: 0.5 1 2 5 10 30

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Input Value	Unit	Symbol	
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation (CW)
25	yr	AT	- Average time for noncarcinogens in Inhalation equation
0.115	yr	AT	- Average time for noncarcinogens in Inhalation equation (CW)
--	yr	AT _c	- Averaging time for Carcinogens
70	kg	BW	- Body Weight (noncarcinogens)
--	kg	BW	- Body Weight (carcinogens)
70	kg	BW	- Body Weight (CW)
502.38	mg/kg	C _{soil}	- Soil Saturation Concentration
200.0000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
3.30E-06	cm ² /s	D _a	- Apparent Diffusivity
7.35E-02	cm ² /s	D _i	- Diffusivity in Air
9.23E-06	cm ² /s	D _w	- Diffusivity in Water
20	unitless	DF	- Dilution Factor
--	yr	ED	- Exposure duration for ingestion of carcinogens
--	yr	ED	- Exposure duration for ingestion of carcinogens (CW)
--	yr	ED	- Exposure duration for ingestion of noncarcinogens
--	yr	ED	- Exposure duration for ingestion of noncarcinogens (CW)
--	yr	ED	- Exposure duration for inhalation of carcinogens
--	yr	ED	- Exposure duration for inhalation of carcinogens (CW)
25	yr	ED	- Exposure duration for inhalation of noncarcinogens
1	yr	ED	- Exposure duration for inhalation of noncarcinogens (CW)
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
1	yr	ED	- Exposure duration for the direct ingestion of groundwater (CW)
--	yr	ED _{ML}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
--	unitless	F(x)	- Function dependent on U _m /U _i
0.0109	g/g	foc	- Fractional Organic Carbon
10.00000	mg/L	GW _{obj}	- Groundwater remediation objective
0.27100	unitless	H'	- Henry's Law Constant (25 C)
222	unitless	H	- Henry's Law Constant (13 C) for Indoor Inh Exp.
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	i	- Infiltration Rate
--	m/yr	i _{ML}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
--	(mg-yr)/(kg-d)	IF _{adj-90}	- Age adjusted Soil Ingestion Factor for Carcinogens
50	mg/d	IR _{soil}	- Soil Ingestion Rate
480	mg/d	IR _{soil}	- Soil Ingestion Rate (Construction Worker)
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) <u>1.36E-04</u> cm/sec
4.3382	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Inorganics)
398.00000	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow <u>265</u>
--	m ³ /kg	PEF	- Particulate Emission Factor
--	m ³ /kg	PEF'	- Particulate Emission Factor adjusted for Agitation (construction worker)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF CW equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF CW equations)
1.00E-01	mg/m ³	RfC	- Inhalation Reference Concentration
4.00E-01	mg/m ³	RfC	- Inhalation Reference Concentration (CW)

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

2.00E-01	mg/(kg-d)	RfD _o	-	Oral Reference Dose
4.00E-01	mg/(kg-d)	RfD _o	-	Oral Reference Dose (CW)
1.10E+02	mg/L	S	-	Solubility in Water
--	(mg/kg-d) ¹	SF _o	-	Oral Slope Factor
7.90E+08	s	T	-	Exposure Interval
3.60E+06	s	T	-	Exposure Interval (Construction Worker)
--	yr	T _{MLL}	-	Exposure Interval for Mass-Limit Volatilization Factor Equation S26
1	unitless	THQ	-	Target Hazard Quotient
--	unitless	TR	-	Target Cancer Risk
--	unitless	TR	-	Target Cancer Risk (Construction Worker)
--	m/s	U _m	-	Mean Annual Wind speed
--	(ug/m ³) ⁻¹	URF	-	Inhalation Unit Risk Factor
--	m/s	U _i	-	Equivalent Threshold Value of Wind speed at 7m
--	unitless	V	-	Fraction of Vegative Cover
74054.76	m ³ /kg	VF	-	Volatilization Factor
499.91	m ³ /kg	VF*	-	Volatilization Factor adjusted for Agitation
--	m ³ /kg	VF _{MLL}	-	Mass-Limit Volatilization Factor
--	m ³ /kg	VF _{MLL}	-	Mass-Limit Volatilization Factor adjusted for Agitation
0.420	L _{porf} /L _{pot}	n	-	Total Soil Porosity
0.077	L _{air} /L _{pot}	θ _a	-	Air Filled Soil Porosity
0.343	L _{water} /L _{pot}	θ _w	-	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	-	Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	-	Soil Particle Density
1	unitless	ρ _w	-	Water Density
0.054	unitless	1/(2b+3)	-	Exponential in Equation S20

Equation	Result	Unit(s)
S1 =	--	mg/kg
S1 (CW) =	--	mg/kg
S2 =	--	mg/kg
S3 =	--	mg/kg
S3 (CW) =	--	mg/kg
S4 =	502.380	mg/kg
S5 =	279.782	mg/kg
S6 =	--	mg/kg
S7 =	--	mg/kg
S17 =	502.380	mg/kg
S28 =	--	mg/kg
S29 =	502.38	mg/kg
S30 =	--	mg/m ³
S30 (CW) =	--	mg/m ³

Industrial/Commercial Ingestion Tier II Total Xylenes Objective for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Total Xylenes Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Residential Ingestion Tier II Carcinogenic Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot IR_{soil}} = \frac{-- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Construction Worker Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Industrial/Commercial Inhalation Non-Carcinogenic Tier II Total Xylenes Remediation Objective

$$S-4 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 25 \cdot 365}{250 \cdot 25 \cdot (1.00E+01 \cdot 1.35E-05)} = 10811.99 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit of 502.38 mg/kg.

Construction Worker Inhalation Non-Carcinogenic Tier II Total Xylenes Remediation Objective

$$S-5 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot 0.115 \cdot 365}{30 \cdot 1 \cdot (2.50E+00 \cdot 0.002)} = 279.78 \text{ mg/kg}$$

Industrial/Commercial Inhalation Tier II Carcinogenic Objective

$$S-6 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot -- \cdot --} = -- \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Construction Worker Inhalation Tier II Carcinogenic Objective

$$S-7 = \frac{TR \cdot ATc \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 3.3E-06 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 3.30E-06} = 7.41E+04 \text{ m}^3/\text{kg}$$

Construction Worker VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 3.30E-06 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 3.3E-06} = 5.00E+03 \text{ m}^3/\text{kg}$$

Equation for Derivation of Volatilization Factor - Construction Worker VF'

$$S-9 = \frac{VF}{10} = \frac{4999.09}{10} = 499.91 \text{ m}^3/\text{kg}$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = \frac{(\theta_v^{3.33} \cdot D_v \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_v \cdot H')}$$

$$= \frac{(0.000199 \cdot 7.35E-02 \cdot 2.71E-01) + (2.83E-02 \cdot 9.23E-06)}{0.176461319}$$

$$= \frac{1}{(1.589 \cdot 4.3382) + 0.342718 + (0.077 \cdot 2.71E-01)} = 3.30E-06$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-11 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RIC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-13 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-14 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_i)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Construction Worker Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_i)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

$$S-16 = \frac{PEF}{10} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_v \cdot H')}{\rho_b} \right] = 200 \cdot \left[4.3382 + \frac{0.077 \cdot 2.71E-01}{1.589} \right] = 913.415 \text{ mg/kg}$$

Tier 2 Migration to GW Objective cannot exceed Soil Saturation Limit of 502.38 mg/kg.

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{dl} = 20.00 \cdot 10 = 200.000$$

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 398.00 \cdot 0.0109 = 4.3382$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{\gamma^{1.25+3}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - S-20 = 0.42007 - 0.34272 = 0.077355$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot I \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$$

Tier II Class I Groundwater Ingestion

$$S-23 = \frac{TR \cdot BW \cdot At_c \cdot 365}{SF_a \cdot IR_w \cdot EF \cdot ED} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/L}$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_a \cdot (1 - \exp \frac{-(L \cdot I)}{(K \cdot I \cdot d_a)}) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot (1 - \exp \frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_a \cdot 10^6} = \frac{--}{--} \cdot \frac{-- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^6} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_a \cdot 10^6} = \frac{--}{--} \cdot \frac{-- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^6} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-27 = VF_{ML} = \frac{VF_{ML}}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot L_{ML} \cdot ED_{ML})}{\rho_b \cdot d_a} = \frac{-- \cdot -- \cdot --}{-- \cdot --} = -- \text{ mg/kg}$$

Soil Saturation Limit

$$S-29 = \frac{S}{\rho_b} \cdot [(K_{oc} \cdot \rho_b) + \theta_w + (H' \cdot \theta_a)] = \frac{110}{1.589} \cdot [(4.3382 \cdot 1.589) + 0.343 + (0.271 \cdot 0.077)] = 502 \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route			
S-30	$\frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b}$	=	$\frac{-- \cdot -- \cdot -- \cdot --}{-- + -- + --}$ = -- mg/m³

Construction Worker Soil Gas Component of the Outdoor Inhalation Exposure Route			
S-30	$\frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b}$	=	$\frac{-- \cdot -- \cdot -- \cdot --}{-- + -- + --}$ = -- mg/m³

Electronic Filing: Received, Clerk's Office 10/23/2020

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006

Site Name: Parker's Gas & More

Site Address (not a P.O. Box): 101 East Outer Belt Drive

City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S4 S5 S8 S9 S10 S17 S18 S19 S20 S21 S22 S24 S25

Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740

Land Use: Industrial/Commercial - Naphthalene Soil Type: Silt Clay Loam

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: 0.5 1 2 5 10 30

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

Input Value	Unit	Symbol	
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation
--	yr	AT	- Average time for Noncarcinogens in Ingestion Equation (CW)
25	yr	AT	- Average time for noncarcinogens in Inhalation equation
0.115	yr	AT	- Average time for noncarcinogens in Inhalation equation (CW)
--	yr	AT _c	- Averaging time for Carcinogens
70	kg	BW	- Body Weight (noncarcinogens)
--	kg	BW	- Body Weight (carcinogens)
70	kg	BW	- Body Weight (CW)
--	mg/kg	C _{sat}	- Soil Saturation Concentration
2.8000	mg/L	C _{sw}	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
2.79E-07	cm ² /s	D _a	- Apparent Diffusivity
5.90E-02	cm ² /s	D _i	- Diffusivity in Air
7.50E-06	cm ² /s	D _w	- Diffusivity in Water
20	unitless	DF	- Dilution Factor
--	yr	ED	- Exposure duration for ingestion of carcinogens
--	yr	ED	- Exposure duration for ingestion of carcinogens (CW)
--	yr	ED	- Exposure duration for ingestion of noncarcinogens
--	yr	ED	- Exposure duration for ingestion of noncarcinogens (CW)
--	yr	ED	- Exposure duration for inhalation of carcinogens
--	yr	ED	- Exposure duration for inhalation of carcinogens (CW)
25	yr	ED	- Exposure duration for inhalation of noncarcinogens
1	yr	ED	- Exposure duration for inhalation of noncarcinogens (CW)
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
1	yr	ED	- Exposure duration for the direct ingestion of groundwater (CW)
--	yr	ED _{ML}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
--	unitless	F(x)	- Function dependent on U _w /U _i
0.0109	g/g	foc	- Fractional Organic Carbon
0.14000	mg/L	GW _{obj}	- Groundwater remediation objective
0.01970	unitless	H'	- Henry's Law Constant (25 C)
0.00829	unitless	H	- Henry's Law Constant (13 C) for Indoor Inh Exp.
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	I	- Infiltration Rate
--	m/yr	I _{ML}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
--	(mg-yr)/(kg-d)	IF _{adj}	- Age adjusted Soil Ingestion Factor for Carcinogens
50	mg/d	IR _{soil}	- Soil Ingestion Rate
480	mg/d	IR _{sw}	- Soil Ingestion Rate (Construction Worker)
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) 1.36E-04 cm/sec
5.45	cm ³ /g or L/kg	K _{ow}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _{ow}	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Inorganics)
500.00000	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow 265
--	m ³ /kg	PEF	- Particulate Emission Factor
--	m ³ /kg	PEF'	- Particulate Emission Factor adjusted for Agitation (construction worker)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (PEF CW equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF equations)
85.81	(g/m ² -s)/(kg/m ³)	Q/C	- Inverse of the mean concentration at the center of a square source (VF CW equations)
3.00E-03	mg/m ³	RfC	- Inhalation Reference Concentration
3.00E-03	mg/m ³	RfC	- Inhalation Reference Concentration (CW)

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

2.00E-02	mg/(kg-d)	RfD _o	-	Oral Reference Dose
6.00E-01	mg/(kg-d)	RfD _o	-	Oral Reference Dose (CW)
3.10E+01	mg/L	S	-	Solubility in Water
--	(mg/kg-d) ⁻¹	SF _o	-	Oral Slope Factor
7.90E+08	s	T	-	Exposure Interval
3.60E+06	s	T	-	Exposure Interval (Construction Worker)
--	yr	T _{M-L}	-	Exposure Interval for Mass-Limit Volatilization Factor Equation S26
1	unitless	THQ	-	Target Hazard Quotient
--	unitless	TR	-	Target Cancer Risk
--	unitless	TR	-	Target Cancer Risk (Construction Worker)
--	m/s	U _m	-	Mean Annual Wind speed
3.40E-05	(ug/m ³) ⁻¹	URF	-	Inhalation Unit Risk Factor
--	m/s	U ₁	-	Equivalent Threshold Value of Wind speed at 7m
--	unitless	V	-	Fraction of Vegetative Cover
254621.82	m ³ /kg	VF	-	Volatilization Factor
1718.83	m ³ /kg	VF ²	-	Volatilization Factor adjusted for Agitation
--	m ³ /kg	VF _{M-L}	-	Mass-Limit Volatilization Factor
--	m ³ /kg	VF _{M-L} ²	-	Mass-Limit Volatilization Factor adjusted for Agitation
0.420	L _{poro} /L _{soil}	η	-	Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	-	Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	-	Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	-	Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	-	Soil Particle Density
1	unitless	ρ _w	-	Water Density
0.054	unitless	1/(2b+3)	-	Exponential in Equation S20

Equation	Result	Unit(s)
S1 =	--	mg/kg
S1 (CW) =	--	mg/kg
S2 =	--	mg/kg
S3 =	--	mg/kg
S3 (CW) =	--	mg/kg
S4 =	1115.244	mg/kg
S5 =	7.215	mg/kg
S6 =	--	mg/kg
S7 =	--	mg/kg
S17 =	--	mg/kg
S28 =	--	mg/kg
S29 =	--	mg/kg
S30 =	--	mg/m ³
S30 (CW) =	--	mg/m ³

Industrial/Commercial Ingestion Tier II Naphthalene Objective for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{- \cdot - \cdot - \cdot -}{- \cdot - \cdot - \cdot -} = - \text{ mg/kg}$$

Construction Worker Ingestion Tier II Naphthalene Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \cdot BW \cdot AT \cdot 365}{10^6 \cdot (1/RfD_o) \cdot EF \cdot ED \cdot IR_{soil}} = \frac{- \cdot - \cdot - \cdot -}{- \cdot - \cdot - \cdot -} = - \text{ mg/kg}$$

Residential Ingestion Tier II Carcinogenic Objective

$$S-2 = \frac{TR \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot IR_{soil-ag}} = \frac{- \cdot - \cdot -}{- \cdot - \cdot -} = - \text{ mg/kg}$$

Industrial/Commercial Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{- \cdot - \cdot - \cdot -}{- \cdot - \cdot - \cdot -} = - \text{ mg/kg}$$

Construction Worker Ingestion Tier II Carcinogenic Objective

$$S-3 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{Sf_o \cdot 10^6 \cdot EF \cdot ED \cdot IR_{soil}} = \frac{- \cdot - \cdot - \cdot -}{- \cdot - \cdot - \cdot -} = - \text{ mg/kg}$$

Industrial/Commercial Inhalation Non-Carcinogenic Tier II Naphthalene Remediation Objective

$$S-4 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot - \cdot 365}{250 \cdot - \cdot (3.33E+02 \cdot 3.93E-06)} = 1115.24 \text{ mg/kg}$$

Construction Worker Inhalation Non-Carcinogenic Tier II Naphthalene Remediation Objective

$$S-5 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot (1/RfC \cdot 1/VF)} = \frac{1 \cdot - \cdot 365}{30 \cdot - \cdot (3.33E+02 \cdot 0.000582)} = 7.21 \text{ mg/kg}$$

Industrial/Commercial Inhalation Tier II Carcinogenic Objective

$$S-6 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{- \cdot - \cdot -}{- \cdot - \cdot - \cdot -} = - \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

Construction Worker Inhalation Tier II Carcinogenic Objective

$$S-7 = \frac{TR \cdot ATc \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot 1/VF} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 2.79E-07 \cdot 7.90E+08)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 2.79E-07} = 2.55E+05 \text{ m}^3/\text{kg}$$

Construction Worker VF

$$S-8 = \frac{Q}{C} \cdot \frac{(3.14 \cdot D_A \cdot T)^{1/2} \cdot 10^{-4}}{(2 \cdot \rho_b \cdot D_A)} = 85.81 \cdot \frac{(3.14 \cdot 2.79E-07 \cdot 3.60E+06)^{1/2} \cdot 1E-04}{2 \cdot 1.589 \cdot 2.79E-07} = 1.72E+04 \text{ m}^3/\text{kg}$$

Equation for Derivation of Volatilization Factor - Construction Worker VF'

$$S-9 = \frac{VF}{10} = \frac{17188.32}{10} = 1718.83 \text{ m}^3/\text{kg}$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = \frac{(\theta_s^{3.33} \cdot D_s \cdot H') + (\theta_w^{3.33} \cdot D_w)}{\eta^2} \cdot \frac{1}{(\rho_b \cdot K_d) + \theta_w + (\theta_s \cdot H')}$$

$$= \frac{(0.000199 \cdot 5.90E-02 \cdot 1.97E-02) + (2.83E-02 \cdot 7.50E-06)}{0.176461319}$$

$$\frac{1}{(1.589 \cdot 5.45) + 0.342718 + (0.077 \cdot 1.97E-02)} = 2.79E-07$$

Fugitive Dust Equations

Industrial/Commercial Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-11 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RfC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Noncarcinogenic Contaminates

$$S-12 = \frac{THQ \cdot AT \cdot 365}{EF \cdot ED \cdot \frac{1}{RfC} \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-13 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Construction Worker Tier II Inhalation Remediation Objective for Carcinogenic Contaminates

$$S-14 = \frac{TR \cdot AT_c \cdot 365}{URF \cdot 1000 \cdot EF \cdot ED \cdot \frac{1}{PEF}} = \frac{-}{-} = - \text{ mg/kg}$$

Industrial/Commercial Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_s)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Construction Worker Equation for Derivation of Particulate Emission Factor

$$S-15 = \frac{Q}{C} \cdot \frac{3600}{0.036 \cdot (1-V) \cdot (U_w/U_s)^3 \cdot F(x)} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Equation for Derivation of Particulate Emission Factor, PEF' CW

$$S-16 = \frac{PEF}{10} = \frac{-}{-} = - \text{ m}^3/\text{kg}$$

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_s \cdot H')}{\rho_b} \right] = 2.8 \cdot \left[5.45 + \frac{0.342718 + 0.077 \cdot 1.97E-02}{1.589} \right] = 15.867 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{eq} = 20.00 \cdot 0.14 = 2.800$$

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 500.00 \cdot 0.0109 = 5.45$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{1/(2b+3)}}{K_a} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - S-20 = 0.42007 - 0.34272 = 0.077355$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot I \cdot d}{I \cdot L} = \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} + 1 = 1.61121$$

Tier II Class I Groundwater Ingestion

$$S-23 = \frac{TR \cdot BW \cdot AT_c \cdot 365}{SF_a \cdot IR_w \cdot EF \cdot ED} = \frac{-- \cdot -- \cdot -- \cdot --}{-- \cdot -- \cdot -- \cdot --} = -- \text{ mg/L}$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.420073$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L)^{0.5} + d_o \cdot \left(1 - \exp\left(\frac{-L \cdot I}{K \cdot I \cdot d_o}\right)\right) = (0.0112 \cdot 80.772)^{0.5} + 3.048 \cdot \left(1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right)\right) = 11.590 \text{ m}$$

Mass-Limit Volatilization Factor for the Industrial/Commercial Inhalation Exposure Route

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_o \cdot 10^9} = \frac{-- \cdot -- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^9} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-26 = \frac{Q}{C} \cdot \frac{T_{ML} \cdot (3.15 \cdot 10^7)}{\rho_b \cdot d_o \cdot 10^9} = \frac{-- \cdot -- \cdot (3.15 \cdot 10^7)}{-- \cdot -- \cdot 10^9} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$S-27 = VF_{ML} = \frac{VF_{ML}}{10} = \frac{--}{--} = -- \text{ m}^3/\text{kg}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_o} = \frac{-- \cdot -- \cdot --}{-- \cdot --} = -- \text{ mg/kg}$$

Soil Saturation Limit

$$S-29 = \frac{S}{\rho_b} \cdot [(K_d \cdot \rho_b) + \theta_w + (H' \cdot \theta_a)] = \frac{--}{--} \cdot [(-- \cdot --) + -- + (-- \cdot --)] = -- \text{ mg/kg}$$

Land Use: Industrial/Commercial Chemical: Naphthalene Incident #: 951012

Industrial/Commercial Tier II Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- \cdot -- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

Construction Worker Soil Gas Component of the Outdoor Inhalation Exposure Route

$$S-30 = \frac{RO_{soil} \cdot H' \cdot \rho_b \cdot 1000}{H' \cdot \theta_a + \theta_w + K_d \cdot \rho_b} = \frac{-- \cdot -- \cdot -- \cdot 1000}{-- \cdot -- + -- + -- \cdot --} = -- \text{ mg/m}^3$$

R-26 MODELING EQUATIONS

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL & RBCA Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006
 Site Name: Parker's Gas & More
 Site Address (not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S17 S18 S19 S20 S21 S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
 Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740
 Land Use: Industrial/Commercial - Benzene SSL Soil Type: Silt Clay Loam
 Groundwater: Class I Class II RBCA Soil Type: Default
 Mass Limit: Yes No If Yes, then Specify Acentage: 0.5 1 2 5 10 30
 Results from S17/S28 used in R26? Yes No Specify C_{source} from S17/S28 0.077 mg/L
 Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

SSL Parameters

Input Value	Input Unit	Input Description	
0.1000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
-	m	d _s	- Depth of Source (Vertical thickness of contaminant)
20	unitless	DF	- Dilution Factor 1.61121 S-22 Value
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
-	yr	ED _{MLL}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
0.0109	g/g	foc	- Fractional Organic Carbon
0.00500	mg/L	GW _{obj}	- Groundwater remediation objective
2.30E-01	unitless	H'	- Henry's Law Constant
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	i	- Infiltration Rate
--	m/yr	i _{MLL}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) <u>1.36E-04</u> cm/sec
0.545	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Inorganics)
5.00E+01	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow <u>265</u> ft
0.420	L _{por} /L _{tot}	η	- Total Soil Porosity
0.077	L _{air} /L _{por}	θ _a	- Air Filled Soil Porosity
0.343	L _{water} /L _{por}	θ _w	- Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _p	- Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	- Soil Particle Density
1	unitless	ρ _w	- Water Density
0.054	unitless	1/(2b+3)	- Exponential in Equation S20

RBCA Parameters

0.029794872	cm/cm	i	- Hydraulic Gradient
11.75	cm/d	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
4.29E+03	cm/yr	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
304.8	cm	S _d	- Source Width Perpendicular to Groundwater Flow Direction in Verti 10 ft
8930.64	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
0.81419	cm/d	U	- Specific Discharge
0.219		w	- Average Soil Moisture Content
Location Specific	cm	X	- Distance along the Centerline of the Groundwater Plume Emanating from a Source.
0.082009	cm ³ _{air} /cm ³ _{soil}	θ _{air}	- Volumetric Air Content in Vadose Zone Soils
0.347991	cm ³ _{water} /cm ³ _{soil}	θ _{water}	- Volumetric Water Content in Vadose Zone Soils
0.43	cm ³ /cm ³ _{soil}	θ _T	- Total Soil Porosity
9.00E-04	d ⁻¹	λ	- First Order Degradation Contant
1.589	g/cm ³	ρ _p	- Soil Bulk Density
1	g/cm ³	ρ _w	- Water Density

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b} \right] = 0.1000 \cdot \left[0.545 + \frac{0.342718 + \frac{0.077 \cdot 2.30E-01}{1.589}}{1} \right] = 0.077 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{df} = 20.00 \cdot 0.005 = 0.100$$

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 50.00 \cdot 0.0109 = 0.545$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{1(2b+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - \theta_w = 0.42007 - 0.34272 = 0.07736$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot l \cdot d}{I \cdot L} = 1 + \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} = 1.61121$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.42007$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^{2.05} + d_a \cdot (1 - \exp\left(\frac{-L \cdot I}{K \cdot l \cdot d_a}\right))) \cdot \left(1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right)\right) = (0.0112 \cdot 80.772^{2.05} + 3.048) \cdot (1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right)) = 11.590 \text{ m}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_w \cdot ED_{10})}{\rho_b \cdot d_a} = \frac{0.1000}{1.589} = 0.063 \text{ mg/kg}$$

Specific Discharge

$$R-19 = \frac{K \cdot l}{\theta_T} = \frac{11.75 \cdot 0.02979}{0.43} = 0.81419 \text{ cm/d}$$

Volumetric Air Content in Vadose Zone Soils

$$R-21 = \theta_T \cdot \frac{w \cdot \rho_b}{\rho_w} = 0.43 \cdot \frac{0.22 \cdot 1.589}{1} = 0.08201$$

Volumetric Water Content in Vadose Zone Soils

$$R-22 = \frac{w \cdot \rho_b}{\rho_w} = \frac{0.22 \cdot 1.589}{1} = 0.34799$$

Total Soil Porosity

$$R-23 = \theta_{aa} + \theta_{wa} = 0.08201 + 0.34799 = 0.43$$

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for G_{wb})

S-18 = $G_{wb} = \frac{C_w}{DF}$

Sample Location	Soil Conc. mg/kg	C _w = (soil contamination at modeling point) / (Equation S-17)		G _{wb} = C _w / DF		R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3		R-18: α _z = α _x / 20	
		C _w	DF	G _{wb}	X (cm)	α _x	α _y	α _z			
F-1	0.28	0.077	3.628	20	0.181376	1219.2	121.92	121.92	40.64	121.92	6.096
W-1	0.161	0.077	2.086	20	0.104291	640.08	64.008	64.008	21.336	64.008	3.2004
W-2	1.21	0.077	15.676	20	0.783803	2651.76	265.176	265.176	88.392	265.176	13.2588
W-3	0.552	0.077	7.151	20	0.357569	1889.76	188.976	188.976	62.992	188.976	9.4488
W-4	0.34	0.077	4.405	20	0.220242	1402.08	140.208	140.208	46.736	140.208	7.0104
W-5	1.02	0.077	13.215	20	0.660726	2499.36	249.936	249.936	83.312	249.936	12.4968
W-6	5.15	0.077	66.720	20	3.336019	4236.72	423.672	423.672	141.224	423.672	21.1836
W-7	8.62	0.077	111.676	20	5.583783	4876.8	487.68	487.68	162.56	487.68	24.384
W-8	37.7	0.077	488.419	20	24.420954	6827.52	682.752	682.752	227.584	682.752	34.1376
W-9	24.3	0.077	314.817	20	15.740827	6217.92	621.792	621.792	207.264	621.792	31.0896
W-10	3.54	0.077	45.862	20	2.293108	3810	381	381	127	381	19.05
W-11	15.4	0.077	199.513	20	9.975668	5608.32	560.832	560.832	186.944	560.832	28.0416
W-12	11.6	0.077	150.283	20	7.514140	5242.56	524.256	524.256	174.752	524.256	26.2128
W-13	2.08	0.077	26.947	20	1.347363	3230.88	323.088	323.088	107.696	323.088	16.1544
W-14	22.3	0.077	288.906	20	14.445286	6096	609.6	609.6	203.2	609.6	30.48
W-15	7.4	0.077	95.870	20	4.793503	4663.44	466.344	466.344	155.448	466.344	23.3172
W-16	10.4	0.077	134.736	20	6.736815	5090.16	509.016	509.016	169.672	509.016	25.4508
W-17	6.12	0.077	79.287	20	3.964356	4450.08	445.008	445.008	148.336	445.008	22.2504
W-18	11.5	0.077	148.987	20	7.449383	5242.56	524.256	524.256	174.752	524.256	26.2128
BH-6B	0.233	0.077	3.019	20	0.150931	1005.84	100.584	100.584	33.528	100.584	5.0292
BH-6C	0.146	0.077	1.891	20	0.094575	518.16	51.816	51.816	17.272	51.816	2.5908
BH-7B	8.42	0.077	109.085	20	5.454229	4846.32	484.632	484.632	161.544	484.632	24.2316
BH-16A	4.81	0.077	62.316	20	3.115777	4175.76	417.576	417.576	139.192	417.576	20.8788
BH-16B	5.81	0.077	75.271	20	3.763548	4389.12	438.912	438.912	146.304	438.912	21.9456
BH-16C	7.45	0.077	96.518	20	4.825891	4693.92	469.392	469.392	156.464	469.392	23.4696
BH-20B	8.19	0.077	106.105	20	5.305242	4815.84	481.584	481.584	160.528	481.584	24.0792
BH-20C	7.64	0.077	98.979	20	4.948968	4724.4	472.44	472.44	157.48	472.44	23.622

Sample Location	*Term 1* = [X / (2 · α _x)]				*Term 2* = {1 - SQRT[1 + (4 · λ · α _x) / (U)]}				β ₁ = S _w / (4 · SQRT[α _y · X])			
	X (cm)	α _x	*Term 1*	λ	α _x	U	*Term 2*	S _w	α _y	X	β ₁	
F-1	1219.2	121.92	5	0.0009	121.92	0.81419	-0.24060	8930.64	40.64	1219.2	10.03017	
W-1	640.08	64.008	5	0.0009	64.008	0.81419	-0.13270	8930.64	21.336	640.08	19.10508	
W-2	2651.76	265.176	5	0.0009	265.176	0.81419	-0.47394	8930.64	88.392	2651.76	4.611572	
W-3	1889.76	188.976	5	0.0009	188.976	0.81419	-0.35483	8930.64	62.992	1889.76	6.471077	
W-4	1402.08	140.208	5	0.0009	140.208	0.81419	-0.27277	8930.64	46.736	1402.08	8.721886	
W-5	2499.36	249.936	5	0.0009	249.936	0.81419	-0.45090	8930.64	83.312	2499.36	4.892766	
W-6	4236.72	423.672	5	0.0009	423.672	0.81419	-0.69508	8930.64	141.224	4236.72	2.88638	
W-7	4876.8	487.68	5	0.0009	487.68	0.81419	-0.77660	8930.64	162.56	4876.8	2.507542	
W-8	6827.52	682.752	5	0.0009	682.752	0.81419	-1.00470	8930.64	227.584	6827.52	1.791102	
W-9	6217.92	621.792	5	0.0009	621.792	0.81419	-0.93631	8930.64	207.264	6217.92	1.9667	
W-10	3810	381	5	0.0009	381	0.81419	-0.63848	8930.64	127	3810	3.209654	
W-11	5608.32	560.832	5	0.0009	560.832	0.81419	-0.86541	8930.64	186.944	5608.32	2.180472	
W-12	5242.56	524.256	5	0.0009	524.256	0.81419	-0.82155	8930.64	174.752	5242.56	2.332598	
W-13	3230.88	323.088	5	0.0009	323.088	0.81419	-0.55838	8930.64	107.696	3230.88	3.78497	
W-14	6096	609.6	5	0.0009	609.6	0.81419	-0.92234	8930.64	203.2	6096	2.006034	
W-15	4663.44	466.344	5	0.0009	466.344	0.81419	-0.74985	8930.64	155.448	4663.44	2.622266	
W-16	5090.16	509.016	5	0.0009	509.016	0.81419	-0.80296	8930.64	169.672	5090.16	2.402436	
W-17	4450.08	445.008	5	0.0009	445.008	0.81419	-0.72268	8930.64	148.336	4450.08	2.747992	
W-18	5242.56	524.256	5	0.0009	524.256	0.81419	-0.82155	8930.64	174.752	5242.56	2.332598	
BH-6B	1005.84	100.584	5	0.0009	100.584	0.81419	-0.20197	8930.64	33.528	1005.84	12.15778	
BH-6C	518.16	51.816	5	0.0009	51.816	0.81419	-0.10865	8930.64	17.272	518.16	23.6004	
BH-7B	4846.32	484.632	5	0.0009	484.632	0.81419	-0.77280	8930.64	161.544	4846.32	2.523313	
BH-16A	4175.76	417.576	5	0.0009	417.576	0.81419	-0.68711	8930.64	139.192	4175.76	2.928517	
BH-16B	4389.12	438.912	5	0.0009	438.912	0.81419	-0.71484	8930.64	146.304	4389.12	2.786158	
BH-16C	4693.92	469.392	5	0.0009	469.392	0.81419	-0.75370	8930.64	156.464	4693.92	2.605239	
BH-20B	4815.84	481.584	5	0.0009	481.584	0.81419	-0.76900	8930.64	160.528	4815.84	2.539283	
BH-20C	4724.4	472.44	5	0.0009	472.44	0.81419	-0.75753	8930.64	157.48	4724.4	2.588431	

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Sample Location	$\beta_2 = S_d / (2 \cdot \text{SQRT}(\sigma_z \cdot X))$							erf: Section 742.APPENDIX C: Table G		$C_{(x)} = C_{\text{source}} \cdot e^{-(\text{Term 1} + \text{Term 2})} \cdot \text{erf}(\beta_1) \cdot \text{erf}(\beta_2)$											
	S_d	σ_z	X	β_2	erf(β_1)	erf(β_2)	C_{source}	Term 1"	Term 2"	erf(β_1)	erf(β_2)	$C_{(x)}$									
F-1	304.80	/	2	√	6.096	-	1219.2	1.758	1	0.987581	0.181376	e	5.000	-	-0.241	-	1.000000	-	0.987581	-	0.053790
W-1	304.80	/	2	√	3.2004	-	640.08	3.367	1	0.999998	0.104291	e	5.000	-	-0.133	-	1.000000	-	0.999998	-	0.053714
W-2	304.80	/	2	√	13.2588	-	2651.76	0.813	1	0.749619	0.783803	e	5.000	-	-0.474	-	1.000000	-	0.749619	-	0.054942
W-3	304.80	/	2	√	9.4488	-	1889.76	1.140	1	0.893234	0.357569	e	5.000	-	-0.355	-	1.000000	-	0.893234	-	0.054177
W-4	304.80	/	2	√	7.0104	-	1402.08	1.537	1	0.970288	0.220242	e	5.000	-	-0.273	-	1.000000	-	0.970288	-	0.054638
W-5	304.80	/	2	√	12.4968	-	2499.36	0.862	1	0.77735	0.660726	e	5.000	-	-0.451	-	1.000000	-	0.777350	-	0.053892
W-6	304.80	/	2	√	21.1836	-	4236.72	0.509	0.999955	0.528121	3.336019	e	5.000	-	-0.695	-	0.999955	-	0.528121	-	0.054525
W-7	304.80	/	2	√	24.384	-	4876.8	0.442	0.999609	0.468029	5.583783	e	5.000	-	-0.777	-	0.999609	-	0.468029	-	0.053785
W-8	304.80	/	2	√	34.1376	-	6827.52	0.316	0.988691	0.344712	24.420954	e	5.000	-	-1.005	-	0.988691	-	0.344712	-	0.054776
W-9	304.80	/	2	√	31.0896	-	6217.92	0.347	0.994586	0.376005	15.740827	e	5.000	-	-0.936	-	0.994586	-	0.376005	-	0.054537
W-10	304.80	/	2	√	19.05	-	3810	0.566	0.999994	0.576289	2.293108	e	5.000	-	-0.638	-	0.999994	-	0.576289	-	0.054277
W-11	304.80	/	2	√	28.0416	-	5608.32	0.384	0.997955	0.413199	9.975668	e	5.000	-	-0.865	-	0.997955	-	0.413199	-	0.054325
W-12	304.80	/	2	√	26.2128	-	5242.56	0.411	0.999029	0.439026	7.514140	e	5.000	-	-0.822	-	0.999029	-	0.439026	-	0.054198
W-13	304.80	/	2	√	16.1544	-	3230.88	0.667	1	0.654522	1.347363	e	5.000	-	-0.558	-	1.000000	-	0.654522	-	0.054062
W-14	304.80	/	2	√	30.48	-	6096	0.354	0.995445	0.382925	14.445286	e	5.000	-	-0.922	-	0.995445	-	0.382925	-	0.054704
W-15	304.80	/	2	√	23.3172	-	4663.44	0.462	0.999791	0.486627	4.793503	e	5.000	-	-0.750	-	0.999791	-	0.486627	-	0.054888
W-16	304.80	/	2	√	25.4508	-	5090.16	0.423	0.99932	0.450695	6.736815	e	5.000	-	-0.803	-	0.999320	-	0.450695	-	0.054758
W-17	304.80	/	2	√	22.2504	-	4450.08	0.484	0.999898	0.506613	3.964356	e	5.000	-	-0.723	-	0.999898	-	0.506613	-	0.054140
W-18	304.80	/	2	√	26.2128	-	5242.56	0.411	0.999029	0.439026	7.449363	e	5.000	-	-0.822	-	0.999029	-	0.439026	-	0.053730
BH-6B	304.80	/	2	√	5.0292	-	1005.84	2.143	1	0.997557	0.150931	e	5.000	-	-0.202	-	1.000000	-	0.997557	-	0.054845
BH-6C	304.80	/	2	√	2.5908	-	518.16	4.159	1	1	0.094575	e	5.000	-	-0.109	-	1.000000	-	1.000000	-	0.054934
BH-7B	304.80	/	2	√	24.2316	-	4846.32	0.445	0.999641	0.470606	5.454229	e	5.000	-	-0.773	-	0.999641	-	0.470606	-	0.053841
BH-16A	304.80	/	2	√	20.8788	-	4175.76	0.516	0.999966	0.534565	3.115777	e	5.000	-	-0.687	-	0.999966	-	0.534565	-	0.053643
BH-16B	304.80	/	2	√	21.9456	-	4389.12	0.491	0.999919	0.512596	3.763548	e	5.000	-	-0.715	-	0.999919	-	0.512596	-	0.054085
BH-16C	304.80	/	2	√	23.4696	-	4693.92	0.459	0.999771	0.483888	4.825891	e	5.000	-	-0.754	-	0.999771	-	0.483888	-	0.053900
BH-20B	304.80	/	2	√	24.0792	-	4815.84	0.448	0.999671	0.473208	5.305242	e	5.000	-	-0.769	-	0.999671	-	0.473208	-	0.053673
BH-20C	304.80	/	2	√	23.622	-	4724.4	0.456	0.999748	0.481177	4.948968	e	5.000	-	-0.758	-	0.999748	-	0.481177	-	0.053919

Land Use: Industrial/Commercial Chemical: Benzene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for $G_{w,df}$)

S-18 = $G_{w,df} = \frac{C_w}{DF}$

Sample Location	Soil Conc. mg/kg	C _w = (soil contamination at modeling point) / (Equation S-17)		G _{w,df} = C _w / DF		R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3		R-18: α _z = α _x / 20		
		C _w	DF	G _{w,df}	X (cm)	α _x	α _y	α _z				
BH-21A	4.31	0.077	55.838	20	2.791892	0.1	4023.36	402.336	402.336	134.112	402.336	20.1168
BH-21B	17.6	0.077	228.015	20	11.400764	0.1	5791.2	579.12	579.12	193.04	579.12	28.956
BH-23B	2.71	0.077	35.109	20	1.755459	0.1	3505.2	350.52	350.52	116.84	350.52	17.526
BH-23C	2.56	0.077	33.166	20	1.658293	0.1	3474.72	347.472	347.472	115.824	347.472	17.3736
BH-3B	1.28	0.077	16.583	20	0.829146	0.1	2712.72	271.272	271.272	90.424	271.272	13.5636
BH-3C	5.27	0.077	68.275	20	3.413751	0.1	4267.2	426.72	426.72	142.24	426.72	21.336
BH-4C	0.09	0.077	1.166	20	0.058299	0.1	91.44	9.144	9.144	3.048	9.144	0.4572
BH-10B	1.9	0.077	24.615	20	1.230764	0.1	3200.4	320.04	320.04	106.68	320.04	16.002
BH-10C	7.38	0.077	95.611	20	4.780548	0.1	4663.44	466.344	466.344	155.448	466.344	23.3172
BH-14B	0.545	0.077	7.061	20	0.353035	0.1	1920.24	192.024	192.024	64.008	192.024	9.6012
BH-26A	0.106	0.077	1.373	20	0.068664	0.1	304.8	30.48	30.48	10.16	30.48	1.524
BH-26B	4.64	0.077	60.113	20	3.005656	0.1	4114.8	411.48	411.48	137.16	411.48	20.574
BH-27A	3.38	0.077	43.789	20	2.189465	0.1	3962.4	396.24	396.24	132.08	396.24	19.812
BH-36	0.146	0.077	1.891	20	0.094575	0.1	548.64	54.864	54.864	18.288	54.864	2.7432
OS-1	18.1	0.077	234.493	20	11.724649	0.1	5943.6	594.36	594.36	198.12	594.36	29.718
OS-2	37.9	0.077	491.010	20	24.550508	0.1	6858	685.8	685.8	228.6	685.8	34.29

Sample Location	"Term 1" = [X / (2 · α _x)]			"Term 2" = {1 - SQRT[1 + (4 · λ · α _y) / (U)]}				β ₁ = S _w / (4 · SQRT[α _y · X])			
	X (cm)	α _x	"Term 1"	λ	α _y	U	"Term 2"	S _w	α _y	X	β ₁
BH-21A	4023.36	402.336	5	0.0009	402.336	0.81419	-0.66702	8930.64	402.336	4023.36	3.039445
BH-21B	5791.2	579.12	5	0.0009	579.12	0.81419	-0.88696	8930.64	579.12	5791.2	2.111615
BH-23B	3505.2	350.52	5	0.0009	350.52	0.81419	-0.59682	8930.64	350.52	3505.2	3.488755
BH-23C	3474.72	347.472	5	0.0009	347.472	0.81419	-0.59260	8930.64	347.472	3474.72	3.519358
BH-3B	2712.72	271.272	5	0.0009	271.272	0.81419	-0.48305	8930.64	271.272	2712.72	4.507941
BH-3C	4267.2	426.72	5	0.0009	426.72	0.81419	-0.69905	8930.64	426.72	4267.2	2.865763
BH-4C	91.44	9.144	5	0.0009	9.144	0.81419	-0.02002	8930.64	9.144	91.44	133.7356
BH-10B	3200.4	320.04	5	0.0009	320.04	0.81419	-0.55405	8930.64	320.04	3200.4	3.821017
BH-10C	4663.44	466.344	5	0.0009	466.344	0.81419	-0.74985	8930.64	466.344	4663.44	2.622266
BH-14B	1920.24	192.024	5	0.0009	192.024	0.81419	-0.35980	8930.64	192.024	1920.24	6.368381
BH-26A	304.8	30.48	5	0.0009	30.48	0.81419	-0.06526	8930.64	30.48	304.8	40.12068
BH-26B	4114.8	411.48	5	0.0009	411.48	0.81419	-0.87910	8930.64	411.48	4114.8	2.971902
BH-27A	3962.4	396.24	5	0.0009	396.24	0.81419	-0.65892	8930.64	396.24	3962.4	3.086206
BH-36	548.64	54.864	5	0.0009	54.864	0.81419	-0.11471	8930.64	54.864	548.64	22.28927
OS-1	5943.6	594.36	5	0.0009	594.36	0.81419	-0.90473	8930.64	594.36	5943.6	2.057471
OS-2	6858	685.8	5	0.0009	685.8	0.81419	-1.00806	8930.64	685.8	6858	1.783141

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL & RBCA Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006
 Site Name: Parker's Gas & More
 Site Address (not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S17 S18 S19 S20 S21 S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
 Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740
 Land Use: Industrial/Commercial - Toluene SSL Soil Type: Silt Clay Loam
 Groundwater: Class I Class II RBCA Soil Type: Default
 Mass Limit: Yes No If Yes, then Specify Acentage: 0.5 1 2 5 10 30
 Results from S17/S28 used in R26? Yes No Specify C_{source} from S17/S28 39.021 mg/L
 Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

SSL Parameters

Input Value	Input Unit	Input Description	
20.0000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
-	m	d _s	- Depth of Source (Vertical thickness of contaminant)
20	unitless	DF	- Dilution Factor 1.61121 S-22 Value
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
-	yr	ED _{MLL}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
0.0109	g/g	foc	- Fractional Organic Carbon
1.00000	mg/L	GW _{OH}	- Groundwater remediation objective
2.71E-01	unitless	H'	- Henry's Law Constant
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	I	- Infiltration Rate
-	m/yr	I _{MLL}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) <u>1.36E-04</u> cm/sec
1.7222	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Inorganics)
1.58E+02	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow <u>265</u> ft
0.420	L _{total} /L _{soil}	η	- Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	- Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	- Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	- Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	- Soil Particle Density
1	unitless	ρ _w	- Water Density
0.054	unitless	1/(2b+3)	- Exponential in Equation S20

RBCA Parameters

0.029794872	cm/cm	i	- Hydraulic Gradient
11.75	cm/d	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
4.29E+03	cm/yr	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
304.8	cm	S _d	- Source Width Perpendicular to Groundwater Flow Direction in Vert 10 ft
8930.64	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
0.81419	cm/d	U	- Specific Discharge
0.219		w	- Average Soil Moisture Content
Location Specific	cm	X	- Distance along the Centerline of the Groundwater Plume Emanating from a Source.
0.082009	cm ³ _{air} /cm ³ _{soil}	θ _{air}	- Volumetric Air Content in Vadose Zone Soils
0.347991	cm ³ _{water} /cm ³ _{soil}	θ _{wv}	- Volumetric Water Content in Vadose Zone Soils
0.43	cm ³ /cm ³ _{soil}	θ _T	- Total Soil Porosity
1.10E-02	d ⁻¹	λ	- First Order Degradation Contant
1.589	g/cm ³	ρ _b	- Soil Bulk Density
1	g/cm ³	ρ _w	- Water Density

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_s \cdot H')}{\rho_b} \right] = 20.0000 \cdot \left[1.7222 + \frac{0.342718 + 0.077 \cdot 2.71E-01}{1.589} \right] = 39.021 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{det} = 20.00 \cdot 1 = 20.000$$

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 158.00 \cdot 0.0109 = 1.7222$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{1(2b+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - \theta_w = 0.42007 - 0.34272 = 0.07736$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot l \cdot d}{I \cdot L} = 1 + \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} = 1.61121$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.42007$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_w \cdot \left(1 - \exp \left(\frac{-L \cdot I}{K \cdot l \cdot d_w} \right) \right) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot \left(1 - \exp \left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048} \right) \right) = 11.590 \text{ m}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{ML} \cdot ED_{ML})}{\rho_b \cdot d_s} = \frac{20.0000 \cdot \dots}{1.589 \cdot \dots} = \dots \text{ mg/kg}$$

Specific Discharge

$$R-19 = \frac{K \cdot l}{\theta_T} = \frac{11.75 \cdot 0.02979}{0.43} = 0.81419 \text{ cm/d}$$

Volumetric Air Content in Vadose Zone Soils

$$R-21 = \theta_T \cdot \frac{w \cdot \rho_b}{\rho_w} = 0.43 \cdot \frac{0.22 \cdot 1.589}{1} = 0.08201$$

Volumetric Water Content in Vadose Zone Soils

$$R-22 = \frac{w \cdot \rho_b}{\rho_w} = \frac{0.22 \cdot 1.589}{1} = 0.34799$$

Total Soil Porosity

$$R-23 = \theta_{as} + \theta_{ws} = 0.08201 + 0.34799 = 0.43$$

Land Use: Industrial/Commercial Chemical: Toluene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GW_{adj})

$$S-18 = GW_{adj} = \frac{C_w}{DF}$$

Sample Location	Cw = (soil contamination at modeling point) / (Equation S-17)		GW _{adj} = Cw / DF		R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3		R-18: α _z = α _x / 20	
	Soil Conc. mg/kg	C _w	DF	GW _{adj}	X (cm)	α _x	α _x	α _y	α _x	α _z
W-8	208	39.021	5.330	0.266520	137.16	13.716	13.716	4.572	13.716	0.6858
W-9	188	39.021	4.818	0.240893	106.68	10.668	10.668	3.556	10.668	0.5334
W-11	52.7	39.021	1.351	0.067527	30.48	3.048	3.048	1.016	3.048	0.1524
W-12	72.3	39.021	1.853	0.092641	30.48	3.048	3.048	1.016	3.048	0.1524
W-14	22.3	39.021	0.571	0.028574	30.48	3.048	0.3048	0.1016	0.3048	0.01524
W-16	83.2	39.021	2.132	0.106608	30.48	3.048	3.048	1.016	3.048	0.1524
W-17	31.1	39.021	0.797	0.039850	30.48	3.048	0.3048	0.1016	0.3048	0.01524
W-18	56.6	39.021	1.450	0.072524	30.48	3.048	3.048	1.016	3.048	0.1524
BH-7B	68.5	39.021	1.755	0.087772	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16A	26.8	39.021	0.687	0.034340	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16B	45.8	39.021	1.174	0.058686	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16C	37.2	39.021	0.953	0.047666	30.48	3.048	3.048	1.016	3.048	0.1524
BH-20B	89.7	39.021	2.299	0.114937	33.528	3.3528	3.3528	1.1176	3.3528	0.16764
BH-20C	23.5	39.021	0.602	0.030112	30.48	3.048	3.048	1.016	3.048	0.1524
BH-21A	27.8	39.021	0.712	0.035621	30.48	3.048	3.048	1.016	3.048	0.1524
BH-21B	43.5	39.021	1.115	0.055739	30.48	3.048	3.048	1.016	3.048	0.1524
BH-3C	24.8	39.021	0.636	0.031777	30.48	3.048	3.048	1.016	3.048	0.1524
BH-10C	20.9	39.021	0.536	0.026780	30.48	3.048	3.048	1.016	3.048	0.1524
BH-26B	18.7	39.021	0.479	0.023961	30.48	3.048	3.048	1.016	3.048	0.1524
BH-27A	15	39.021	0.384	0.019220	30.48	3.048	3.048	1.016	3.048	0.1524
OS-1	160	39.021	4.100	0.205015	91.44	9.144	9.144	3.048	9.144	0.4572
OS-2	367	39.021	9.405	0.470254	213.36	21.336	21.336	7.112	21.336	1.0668

Sample Location	*Term 1* = [X / (2 · α _x)]				*Term 2* = {1 - SQRT[1 + (4 · λ · α _x) / (U)]}				β ₁ = S _w / (4 · SQRT[α _y · X])			
	X (cm)	α _x	*Term 1*		λ	α _x	U	*Term 2*	S _w	α _y	X	β ₁
W-8	137.16	13.716	5	1 - √ 1 + 4	0.011	13.716	0.81419	-0.31956	8930.64	4.572	137.16	89.15706
W-9	106.68	10.668	5	1 - √ 1 + 4	0.011	10.668	0.81419	-0.25559	8930.64	3.556	106.68	114.6305
W-11	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
W-12	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
W-14	30.48	0.3048	5	1 - √ 1 + 4	0.011	0.3048	0.81419	-0.00820	8930.64	0.1016	30.48	4012.068
W-16	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
W-17	30.48	0.3048	5	1 - √ 1 + 4	0.011	0.3048	0.81419	-0.00820	8930.64	0.1016	30.48	4012.068
W-18	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-7B	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-16A	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-16B	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-16C	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-20B	33.528	3.3528	5	1 - √ 1 + 4	0.011	3.3528	0.81419	-0.08683	8930.64	1.1176	33.528	364.7334
BH-20C	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-21A	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-21B	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-3C	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-10C	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-26B	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
BH-27A	30.48	3.048	5	1 - √ 1 + 4	0.011	3.048	0.81419	-0.07922	8930.64	1.016	30.48	401.2068
OS-1	91.44	9.144	5	1 - √ 1 + 4	0.011	9.144	0.81419	-0.22236	8930.64	3.048	91.44	133.7356
OS-2	213.36	21.336	5	1 - √ 1 + 4	0.011	21.336	0.81419	-0.46732	8930.64	7.112	213.36	57.31525

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL & RBCA Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006
 Site Name: Parker's Gas & More
 Site Address (not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S17 S18 S19 S20 S21 S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
 Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740
 Land Use: Industrial/Commercial - Ethylbenzene SSL Soil Type: Silt Clay Loam
 Groundwater: Class I Class II RBCA Soil Type: Default
 Mass Limit: Yes No If Yes, then Specify Acentage: 0.5 1 2 5 10 30
 Results from S17/S28 used in R26? Yes No Specify C_{soil} from S17/S28 52.072 mg/L
 Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

SSL Parameters

Input Value	Input Unit	Input Description	
14.0000	mg/L	C _w	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
20	unitless	DF	- Dilution Factor 1.61121 S-22 Value
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
--	yr	ED _{MLL}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
0.0109	g/g	foc	- Fractional Organic Carbon
0.70000	mg/L	GW _{obj}	- Groundwater remediation objective
3.24E-01	unitless	H'	- Henry's Law Constant
0.029794872	m/m	I	- Hydraulic Gradient
0.3	m/yr	I	- Infiltration Rate
--	m/yr	I _{MLL}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) <u>1.36E-04</u> cm/sec
3.488	cm ³ /g or L/kg	K _{oc}	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Inorganics)
3.20E+02	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow <u>265</u> ft
0.420	L _{porv} /L _{sed}	η	- Total Soil Porosity
0.077	L _{air} /L _{sed}	θ _a	- Air Filled Soil Porosity
0.343	L _w /L _{sed}	θ _w	- Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	- Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	- Soil Particle Density
1	unitless	ρ _w	- Water Density
0.054	unitless	1/(2b+3)	- Exponential in Equation S20

RBCA Parameters

0.029794872	cm/cm	I	- Hydraulic Gradient
11.75	cm/d	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
4.29E+03	cm/yr	K	- Aquifer Hydraulic Conductivity <u>1.36E-04</u> cm/sec
304.8	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Verti 10 ft
8930.64	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Hor 293 ft
0.81419	cm/d	U	- Specific Discharge
0.219		w	- Average Soil Moisture Content
Location Specific	cm	X	- Distance along the Centerline of the Groundwater Plume Emanating from a Source.
0.082009	cm ³ _{air} /cm ³ _{soil}	θ _{air}	- Volumetric Air Content in Vadose Zone Soils
0.347991	cm ³ _w /cm ³ _{soil}	θ _w	- Volumetric Water Content in Vadose Zone Soils
0.43	cm ³ /cm ³ _{soil}	θ _T	- Total Soil Porosity
3.00E-03	d ⁻¹	λ	- First Order Degradation Contant
1.589	g/cm ³	ρ _b	- Soil Bulk Density
1	g/cm ³	ρ _w	- Water Density

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_u \cdot \left[K_d + \frac{(\theta_w + \theta_s \cdot H')}{\rho_b} \right] = 14.0000 \cdot \left[3.488 + \frac{0.342718 + 0.077 \cdot 3.24E-01}{1.589} \right] = 52.072 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{del} = 20.00 \cdot 0.7 = 14.000$$

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 320.00 \cdot 0.0109 = 3.488$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{(2b+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - \theta_w = 0.42007 - 0.34272 = 0.07736$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot i \cdot d}{I \cdot L} = 1 + \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} = 1.61121$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.42007$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_w \cdot \left(1 - \exp\left(\frac{-L \cdot I}{K \cdot i \cdot d_w}\right) \right) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot \left(1 - \exp\left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048}\right) \right) = 11.590 \text{ m}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_u \cdot I_{gw} \cdot ED)_{gw}}{\rho_b \cdot d_s} = \frac{14.0000 \cdot \dots}{1.589 \cdot \dots} = \dots \text{ mg/kg}$$

Specific Discharge

$$R-19 = \frac{K \cdot I}{\theta_r} = \frac{11.75 \cdot 0.02979}{0.43} = 0.81419 \text{ cm/d}$$

Volumetric Air Content in Vadose Zone Soils

$$R-21 = \theta_r \cdot \frac{w \cdot \rho_b}{\rho_w} = 0.43 \cdot \frac{0.22 \cdot 1.589}{1} = 0.08201$$

Volumetric Water Content in Vadose Zone Soils

$$R-22 = \frac{w \cdot \rho_b}{\rho_w} = \frac{0.22 \cdot 1.589}{1} = 0.34799$$

Total Soil Porosity

$$R-23 = \theta_{as} + \theta_{ws} = 0.08201 + 0.34799 = 0.43$$

Electronic Filing: Received, Clerk's Office 10/23/2020

Land Use: Industrial/Commercial Chemical: Ethylbenzene Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GW_{obj})

$$S-18 = GW_{obj} = \frac{C_w}{DF}$$

Sample Location	Soil Conc. mg/kg	C _w = (soil contamination at modeling point) / (Equation S-17)		GW _{obj} = C _w / DF		R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3			R-18: α _z = α _x / 20							
		C _w	DF	DF	GW _{obj}	X (cm)	α _x	α _x	α _y	α _x	α _x	α _z						
W-6	20.7	/	52.072	0.398	/	20	0.019876	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-7	14.7	/	52.072	0.282	/	20	0.014115	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-8	57	/	52.072	1.095	/	20	0.054732	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-9	59.5	/	52.072	1.143	/	20	0.057132	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-10	16.5	/	52.072	0.317	/	20	0.015843	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-11	14.7	/	52.072	0.282	/	20	0.014115	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-12	16.7	/	52.072	0.321	/	20	0.016035	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-14	30.6	/	52.072	0.588	/	20	0.029382	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
W-16	31.1	/	52.072	0.597	/	20	0.029862	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
BH-7B	27.4	/	52.072	0.526	/	20	0.026310	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
BH-20B	21.1	/	52.072	0.405	/	20	0.020260	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
BH-21B	24.1	/	52.072	0.463	/	20	0.023141	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
OS-1	41.2	/	52.072	0.791	/	20	0.039560	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524
OS-2	117	/	52.072	2.247	/	20	0.112344	0.1	30.48	3.048	3.048	/	3	1.016	3.048	/	20	0.1524

Sample Location	"Term 1" = [X / (2 · α _x)]			"Term 2" = {1 - SORT[1 + (4 · λ · α _x) / (U)]}					β ₁ = S _w / (4 · SQRT[α _y · X])																	
	X (cm)	α _x	"Term 1"	λ	α _x	U	"Term 2"	S _w	α _y	X	β ₁															
W-6	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-7	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-8	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-9	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-10	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-11	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-12	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-14	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
W-16	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
BH-7B	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
BH-20B	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
BH-21B	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
OS-1	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068
OS-2	30.48	/	2	·	3.048	5	1	-√	1	+	4	·	0.003	·	3.048	·	0.81419	-0.02221	8930.64	/	4	-√	1.016	·	30.48	401.2068

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL & RBCA Input Parameters for Use with Tier 2 Calculations

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC # (10 digit): 10105006
 Site Name: Parker's Gas & More
 Site Address (not a P.O. Box): 101 East Outer Belt Drive
 City: Clayton County: Adams Zip Code: 62324

B. Tier 2 Calculation Information

Equations(s) Used: S17 S18 S19 S20 S21 S22 S24 S25 R16 R17 R18 R19 R21 R22 R23 R26
 Contact Information for Individual Who Performed Calculations:
Kelly Tensmeyer, Chase Environmental Group, (618) 533-6740
 Land Use: Industrial/Commercial - Total Xylenes SSL Soil Type: Silt Clay Loam
 Groundwater: Class I Class II RBCA Soil Type: Default
 Mass Limit: Yes No If Yes, then Specify Acentage: 0.5 1 2 5 10 30
 Results from S17/S28 used in R26? Yes No Specify C_{source} from S17/S28 913.415 mg/L
 Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

SSL Parameters

Input Value	Input Unit	Input Description	
200.0000	mg/L	C _{sv}	- Target Soil Leachate Concentration
11.590	m	d	- Mixing Zone Depth
3.048	m	d _a	- Aquifer Thickness 10 ft
--	m	d _s	- Depth of Source (Vertical thickness of contaminant)
20	unitless	DF	- Dilution Factor 1.61121 S-22 Value
25	yr	ED	- Exposure duration for the direct ingestion of groundwater
--	yr	ED _{ML}	- Exposure duration for migration to groundwater Mass-Limit Equation S28
250	d/yr	EF	- Exposure frequency
30	d/yr	EF	- Exposure frequency (CW)
0.0109	g/g	foc	- Fractional Organic Carbon
10.00000	mg/L	GW _{obj}	- Groundwater remediation objective
2.71E-01	unitless	H'	- Henry's Law Constant
0.029794872	m/m	i	- Hydraulic Gradient
0.3	m/yr	i	- Infiltration Rate
--	m/yr	i _{ML}	- Infiltration rate for migration to groundwater Mass-Limit Equation S28
1	L/d	IR _w	- Daily Water Ingestion Rate
42.88896	m/yr	K	- Hydraulic Conductivity (m/yr) <input type="text" value="1.36E-04"/> cm/sec
4.3382	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Non-ionizing organics)
S19&pH	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Ionizing organics)
App C, Table J	cm ³ /g or L/kg	K _d	- Soil-Water Partition Coefficient (Inorganics)
3.98E+02	cm ³ /g or L/kg	K _{oc}	- Organic Carbon Partition Coefficient
13	m/yr	K _s	- Saturated Hydraulic Conductivity
80.772	m	L	- Source Length Parallel to Groundwater Flow <input type="text" value="265"/> ft
0.420	L _{poro} /L _{soil}	η	- Total Soil Porosity
0.077	L _{air} /L _{soil}	θ _a	- Air Filled Soil Porosity
0.343	L _{water} /L _{soil}	θ _w	- Water Filled Soil Porosity
1.589	kg/L or g/cm ³	ρ _b	- Dry Soil Bulk Density
2.74	g/cm ³	ρ _s	- Soil Particle Density
1	unitless	ρ _w	- Water Density
0.054	unitless	1/(2b+3)	- Exponential In Equation S20

RBCA Parameters

0.029794872	cm/cm	i	- Hydraulic Gradient
11.75	cm/d	K	- Aquifer Hydraulic Conductivity <input type="text" value="1.36E-04"/> cm/sec
4.29E+03	cm/yr	K	- Aquifer Hydraulic Conductivity <input type="text" value="1.36E-04"/> cm/sec
304.8	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Vert: 10 ft
8930.64	cm	S _w	- Source Width Perpendicular to Groundwater Flow Direction in Hor: 293 ft
0.81419	cm/d	U	- Specific Discharge
0.219		w	- Average Soil Moisture Content
Location Specific	cm	X	- Distance along the Centerline of the Groundwater Plume Emanating from a Source.
0.082009	cm ³ _{air} /cm ³ _{soil}	θ _{air}	- Volumetric Air Content in Vadose Zone Soils
0.347991	cm ³ _{water} /cm ³ _{soil}	θ _w	- Volumetric Water Content in Vadose Zone Soils
0.43	cm ³ /cm ³ _{soil}	θ _T	- Total Soil Porosity
1.90E-03	d ⁻¹	λ	- First Order Degradation Contant
1.589	g/cm ³	ρ _b	- Soil Bulk Density
1	g/cm ³	ρ _w	- Water Density

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Soil Component of the Migration to Groundwater Cleanup Objective Class I

$$S-17 = C_w \cdot \left[K_d + \frac{(\theta_w + \theta_a \cdot H')}{\rho_b} \right] = 200.0000 \cdot \left[4.3382 + \frac{0.342718 + 0.077 \cdot 2.71E-01}{1.589} \right] = 913.415 \text{ mg/kg}$$

Target Soil Leachate Concentration Class I

$$S-18 = DF \cdot GW_{MCL} = 20.00 \cdot 10 = 200.000$$

Soil-Water Partition Coefficient

$$S-19 = K_{oc} \cdot f_{oc} = 398.00 \cdot 0.0109 = 4.3382$$

Water-Filled Porosity

$$S-20 = \eta \cdot \frac{I^{1(2b+3)}}{K_s} = 0.42007 \cdot \frac{0.3^{0.054}}{13} = 0.3427$$

Air-Filled Porosity

$$S-21 = \eta - \theta_w = 0.42007 - 0.34272 = 0.07736$$

Dilution Factor

$$S-22 = 1 + \frac{K \cdot i \cdot d}{I \cdot L} = 1 + \frac{42.889 \cdot 0.02979 \cdot 11.59}{0.3 \cdot 80.772} = 1.61121$$

Total Soil Porosity

$$S-24 = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.589}{2.74} = 0.42007$$

Estimation of Mixing Zone Depth

$$S-25 = (0.0112 \cdot L^2)^{0.5} + d_w \cdot \left(1 - \exp \left(\frac{-L \cdot I}{K \cdot i \cdot d_w} \right) \right) = (0.0112 \cdot 80.772^2)^{0.5} + 3.048 \cdot \left(1 - \exp \left(\frac{-80.772 \cdot 0.3}{42.889 \cdot 0.02979 \cdot 3.048} \right) \right) = 11.590 \text{ m}$$

Mass-Limit Remediation Objective for the Soil Component of the Groundwater Ingestion Exposure Route

$$S-28 = \frac{(C_w \cdot I_{gw} \cdot ED_{gw})}{\rho_b \cdot d} = \frac{200.0000 \cdot \dots}{1.589 \cdot \dots} = \dots \text{ mg/kg}$$

Specific Discharge

$$R-19 = \frac{K \cdot I}{\theta_T} = \frac{11.75 \cdot 0.02979}{0.43} = 0.81419 \text{ cm/d}$$

Volumetric Air Content in Vadose Zone Soils

$$R-21 = \theta_T \cdot \frac{w \cdot \rho_b}{\rho_w} = 0.43 \cdot \frac{0.22 \cdot 1.589}{1} = 0.08201$$

Volumetric Water Content in Vadose Zone Soils

$$R-22 = \frac{w \cdot \rho_b}{\rho_w} = \frac{0.22 \cdot 1.589}{1} = 0.34799$$

Total Soil Porosity

$$R-23 = \theta_{as} + \theta_{ws} = 0.08201 + 0.34799 = 0.43$$

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GW_{adj})

$$S-18 = GW_{adj} = \frac{C_w}{DF}$$

Sample Location	Cw = (soil contamination at modeling point) / (Equation S-17)			GW _{adj} = Cw / DF		R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3		R-18: α _z = α _x / 20	
	Soil Conc. mg/kg	C _w	DF	DF	GW _{adj}	X (cm)	α _x	α _y	α _z	α _z	
W-2	24.1	0.026	20	20	0.001319	30.48	3.048	3.048	1.016	3.048	0.1524
W-6	35.1	0.038	20	20	0.001921	30.48	3.048	3.048	1.016	3.048	0.1524
W-7	51.7	0.057	20	20	0.002830	30.48	3.048	3.048	1.016	3.048	0.1524
W-8	271	0.297	20	20	0.014834	30.48	3.048	3.048	1.016	3.048	0.1524
W-9	289	0.316	20	20	0.015820	30.48	3.048	3.048	1.016	3.048	0.1524
W-10	41.3	0.045	20	20	0.002261	30.48	3.048	3.048	1.016	3.048	0.1524
W-11	58.1	0.064	20	20	0.003180	30.48	3.048	3.048	1.016	3.048	0.1524
W-12	66.7	0.073	20	20	0.003651	30.48	3.048	3.048	1.016	3.048	0.1524
W-14	155	0.170	20	20	0.008485	30.48	3.048	3.048	1.016	3.048	0.1524
W-16	148	0.162	20	20	0.008101	30.48	3.048	3.048	1.016	3.048	0.1524
W-17	47.2	0.052	20	20	0.002584	30.48	3.048	3.048	1.016	3.048	0.1524
W-18	61.8	0.068	20	20	0.003383	30.48	3.048	3.048	1.016	3.048	0.1524
BH-7B	142	0.155	20	20	0.007773	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16A	37.2	0.041	20	20	0.002036	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16B	99.1	0.108	20	20	0.005425	30.48	3.048	3.048	1.016	3.048	0.1524
BH-16C	65.9	0.072	20	20	0.003607	30.48	3.048	3.048	1.016	3.048	0.1524
BH-20B	116	0.127	20	20	0.006350	30.48	3.048	3.048	1.016	3.048	0.1524
BH-20C	35.2	0.039	20	20	0.001927	30.48	3.048	3.048	1.016	3.048	0.1524
BH-21A	80.8	0.088	20	20	0.004423	30.48	3.048	3.048	1.016	3.048	0.1524
BH-21B	124	0.136	20	20	0.006788	30.48	3.048	3.048	1.016	3.048	0.1524
BH-23B	6.73	0.007	20	20	0.000368	30.48	3.048	3.048	1.016	3.048	0.1524
BH-3C	41.4	0.045	20	20	0.002266	30.48	3.048	3.048	1.016	3.048	0.1524
BH-10C	20.1	0.022	20	20	0.001100	30.48	3.048	3.048	1.016	3.048	0.1524
BH-14B	23.4	0.026	20	20	0.001281	30.48	3.048	3.048	1.016	3.048	0.1524
BH-26B	15.9	0.017	20	20	0.000870	30.48	3.048	3.048	1.016	3.048	0.1524
BH-27A	16.6	0.018	20	20	0.000909	30.48	3.048	3.048	1.016	3.048	0.1524
BH-36	34.1	0.037	20	20	0.001867	30.48	3.048	3.048	1.016	3.048	0.1524

Sample Location	"Term 1" = [X / (2 · α _x)]				"Term 2" = {1 - SQRT[1 + (4 · λ · α _x) / (U)]}				β ₁ = S _w / (4 · SQRT[α _y · X])			
	X (cm)	α _x	"Term 1"	λ	α _x	U	"Term 2"	S _w	α _y	X	β ₁	
W-2	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-6	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-7	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-8	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-9	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-10	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-11	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-12	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-14	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-16	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-17	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
W-18	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-7B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-16A	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-16B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-16C	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-20B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-20C	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-21A	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-21B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-23B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-3C	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-10C	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-14B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-26B	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-27A	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	
BH-36	30.48	3.048	5	0.0019	3.048	0.81419	-0.01413	8930.64	1.016	30.48	401.2068	

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Sample Location	$\beta_2 = S_d / (2 \cdot \text{SQRT}(az \cdot X))$								erf: Section 742.APPENDIX C: Table G		$C_{(x)} = C_{\text{source}} \cdot e^{(\text{Term 1} \cdot \text{Term 2})} \cdot \text{erf}(\beta_1) \cdot \text{erf}(\beta_2)$						
	S_d				a_z	X	β_2	erf(β_1)	erf(β_2)	C_{source}	"Term 1"	"Term 2"	erf(β_1)	erf(β_2)	$C_{(x)}$		
W-2	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001319	-e	5.000	-	-0.014	1.000000	1.000000	0.001229
W-6	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001921	-e	5.000	-	-0.014	1.000000	1.000000	0.001790
W-7	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.002830	-e	5.000	-	-0.014	1.000000	1.000000	0.002637
W-8	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.014834	-e	5.000	-	-0.014	1.000000	1.000000	0.013823
W-9	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.015820	-e	5.000	-	-0.014	1.000000	1.000000	0.014741
W-10	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.002261	-e	5.000	-	-0.014	1.000000	1.000000	0.002107
W-11	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.003180	-e	5.000	-	-0.014	1.000000	1.000000	0.002963
W-12	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.003651	-e	5.000	-	-0.014	1.000000	1.000000	0.003402
W-14	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.008485	-e	5.000	-	-0.014	1.000000	1.000000	0.007906
W-16	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.008101	-e	5.000	-	-0.014	1.000000	1.000000	0.007549
W-17	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.002584	-e	5.000	-	-0.014	1.000000	1.000000	0.002408
W-18	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.003383	-e	5.000	-	-0.014	1.000000	1.000000	0.003152
BH-7B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.007773	-e	5.000	-	-0.014	1.000000	1.000000	0.007243
BH-16A	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.002036	-e	5.000	-	-0.014	1.000000	1.000000	0.001897
BH-16B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.005425	-e	5.000	-	-0.014	1.000000	1.000000	0.005055
BH-16C	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.003607	-e	5.000	-	-0.014	1.000000	1.000000	0.003361
BH-20B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.006350	-e	5.000	-	-0.014	1.000000	1.000000	0.005917
BH-20C	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001927	-e	5.000	-	-0.014	1.000000	1.000000	0.001795
BH-21A	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.004423	-e	5.000	-	-0.014	1.000000	1.000000	0.004121
BH-21B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.006788	-e	5.000	-	-0.014	1.000000	1.000000	0.006325
BH-23B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.000368	-e	5.000	-	-0.014	1.000000	1.000000	0.000343
BH-3C	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.002266	-e	5.000	-	-0.014	1.000000	1.000000	0.002112
BH-10C	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001100	-e	5.000	-	-0.014	1.000000	1.000000	0.001025
BH-14B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001281	-e	5.000	-	-0.014	1.000000	1.000000	0.001194
BH-26B	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.000870	-e	5.000	-	-0.014	1.000000	1.000000	0.000811
BH-27A	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.000909	-e	5.000	-	-0.014	1.000000	1.000000	0.000847
BH-36	304.80	/	2	-√	0.1524	30.48	70.711	1	1	0.001867	-e	5.000	-	-0.014	1.000000	1.000000	0.001739

Land Use: Industrial/Commercial Chemical: Total Xylenes Incident #: 951012

Modeling Soil Contamination to Groundwater Table

Target Soil Leachate Concentration (Solve S-18 for GW_{obj})

$$S-18 = GW_{obj} = \frac{C_w}{DF}$$

Sample Location	Soil Conc. mg/kg	C _w = (soil contamination at modeling point) / (Equation S-17)			GW _{obj} = C _w / DF			R-16: α _x = 0.10 · X		R-17: α _y = α _x / 3			R-18: α _z = α _x / 20				
		C _w	DF	GW _{obj}	X (cm)	α _x	α _y	α _z	α _x	α _y	α _z						
OS-1	235	/	913.415	0.257	/	20	0.012864	0.1	609.6	60.96	/	3	20.32	60.96	/	20	3.048
OS-2	653	/	913.415	0.715	/	20	0.035745	0.1	1219.2	121.92	/	3	40.64	121.92	/	20	6.096

Sample Location	*Term 1* = [X / (2 · α _x)]				*Term 2* = {1 - SQRT[1 + (4 · λ · α _x) / (U)]}				β ₁ = S _w / (4 · SQRT[α _y · X])																					
	X (cm)	α _x	*Term 1*		λ	α _x	U	*Term 2*	S _w	α _y	X	β ₁																		
OS-1	609.6	/	2	·	60.96	5	1	-	√	1	+	4	·	0.0019	·	60.96	·	0.81419	-	0.25261	·	8930.64	/	4	·	√	20.32	·	609.6	20.06034
OS-2	1219.2	/	2	·	121.92	5	1	-	√	1	+	4	·	0.0019	·	121.92	·	0.81419	-	0.46221	·	8930.64	/	4	·	√	40.64	·	1219.2	10.03017

APPENDIX B

Laboratory Reports, Chain of Custody Form & Laboratory Certification



August 21, 2013

Marvin Johnson
Chase Environmental Group
P.O. Drawer AB
Centralia, IL 62801
TEL: (618) 533-6740
FAX: (618) 533-6741



RE: Parkers/F0908004

WorkOrder: 13080810

Dear Marvin Johnson:

TEKLAB, INC received 14 samples on 8/15/2013 3:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Marvin L. Darling II".

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com



Definitions

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Cooler Receipt Temp: 4.8 °C

Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-001

Client Sample ID: OS-1 @ 3-4 ft

Matrix: SOLID

Collection Date: 08/13/2013 8:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		21.4	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Fluorene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 12:01	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:01	91079
Naphthalene	NELAP	0.004		0.1	mg/Kg-dry	1	08/19/2013 12:01	91079
Phenanthrene	NELAP	0.004		0.014	mg/Kg-dry	1	08/19/2013 12:01	91079
Pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 12:01	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		58.3	%REC	1	08/19/2013 12:01	91079
Surr: Nitrobenzene-d5		26.3-87.6		63.8	%REC	1	08/19/2013 12:01	91079
Surr: p-Terphenyl-d14		51-107		88.4	%REC	1	08/19/2013 12:01	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	200		18100	µg/Kg-dry	100	08/19/2013 22:30	91132
Ethylbenzene	NELAP	20000		41200	µg/Kg-dry	2000	08/20/2013 11:36	91136
Methyl tert-butyl ether	NELAP	399		ND	µg/Kg-dry	100	08/19/2013 22:30	91132
Toluene	NELAP	20000		160000	µg/Kg-dry	2000	08/20/2013 11:36	91136
Xylenes, Total	NELAP	20000		235000	µg/Kg-dry	2000	08/20/2013 11:36	91136
Surr: 1,2-Dichloroethane-d4		72.2-131		85.1	%REC	100	08/19/2013 22:30	91132
Surr: 4-Bromofluorobenzene		82.1-116		96.6	%REC	100	08/19/2013 22:30	91132
Surr: Dibromofluoromethane		77.7-120		89.2	%REC	100	08/19/2013 22:30	91132
Surr: Toluene-d8		86-116		107.5	%REC	100	08/19/2013 22:30	91132

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-002

Client Sample ID: OS-2 @ 3-4 ft

Matrix: SOLID

Collection Date: 08/13/2013 8:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		19.2	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Naphthalene	NELAP	0.004	SR	0.162	mg/Kg-dry	1	08/19/2013 12:32	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 12:32	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		50.6	%REC	1	08/19/2013 12:32	91079
Surr: Nitrobenzene-d5		26.3-87.6		55.1	%REC	1	08/19/2013 12:32	91079
Surr: p-Terphenyl-d14		51-107		80.2	%REC	1	08/19/2013 12:32	91079
<i>RPD, MS and MSD recovery did not recover within control limits due to sample composition.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	521		37900	µg/Kg-dry	250	08/20/2013 12:02	91136
Ethylbenzene	NELAP	104000		117000	µg/Kg-dry	10000	08/20/2013 17:03	91168
Methyl tert-butyl ether	NELAP	1040		ND	µg/Kg-dry	250	08/20/2013 12:02	91136
Toluene	NELAP	104000		367000	µg/Kg-dry	10000	08/20/2013 17:03	91168
Xylenes, Total	NELAP	104000		653000	µg/Kg-dry	10000	08/20/2013 17:03	91168
Surr: 1,2-Dichloroethane-d4		72.2-131		107.6	%REC	250	08/20/2013 12:02	91136
Surr: 4-Bromofluorobenzene		82.1-116		103.9	%REC	250	08/20/2013 12:02	91136
Surr: Dibromofluoromethane		77.7-120		94.2	%REC	250	08/20/2013 12:02	91136
Surr: Toluene-d8		86-116		105.8	%REC	250	08/20/2013 12:02	91136
<i>Elevated reporting limit due to high levels of target and/or non-target analytes.</i>								



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-003

Client Sample ID: OS-3 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 8:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		19.1	%	1	08/16/2013 9:44	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(b)fluoranthene	NELAP	0.004	J	0.003	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Naphthalene	NELAP	0.004		0.007	mg/Kg-dry	1	08/19/2013 14:08	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:08	91079
Pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:08	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		55.8	%REC	1	08/19/2013 14:08	91079
Surr: Nitrobenzene-d5		26.3-87.6		64	%REC	1	08/19/2013 14:08	91079
Surr: p-Terphenyl-d14		51-107		81.9	%REC	1	08/19/2013 14:08	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 13:28	91091
Toluene	NELAP	4.3	J	1.6	µg/Kg-dry	1	08/16/2013 13:28	91091
Xylenes, Total	NELAP	4.3	J	1.3	µg/Kg-dry	1	08/16/2013 13:28	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		107.2	%REC	1	08/16/2013 13:28	91091
Surr: 4-Bromofluorobenzene		82.1-116		94.2	%REC	1	08/16/2013 13:28	91091
Surr: Dibromofluoromethane		77.7-120		99.6	%REC	1	08/16/2013 13:28	91091
Surr: Toluene-d8		86-116		103.4	%REC	1	08/16/2013 13:28	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-004

Client Sample ID: OS-4 @ 3-4 ft

Matrix: SOLID

Collection Date: 08/13/2013 8:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		17.6	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(a)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(b)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(g,h,i)perylene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	08/19/2013 14:40	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 14:40	91079
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	08/19/2013 14:40	91079
Pyrene	NELAP	0.004		0.01	mg/Kg-dry	1	08/19/2013 14:40	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		58.7	%REC	1	08/19/2013 14:40	91079
Surr: Nitrobenzene-d5		26.3-87.6		65	%REC	1	08/19/2013 14:40	91079
Surr: p-Terphenyl-d14		51-107		88.1	%REC	1	08/19/2013 14:40	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 13:54	91091
Ethylbenzene	NELAP	4.1		ND	µg/Kg-dry	1	08/16/2013 13:54	91091
Methyl tert-butyl ether	NELAP	1.6		ND	µg/Kg-dry	1	08/16/2013 13:54	91091
Toluene	NELAP	4.1	J	1.1	µg/Kg-dry	1	08/16/2013 13:54	91091
Xylenes, Total	NELAP	4.1		ND	µg/Kg-dry	1	08/16/2013 13:54	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		103.8	%REC	1	08/16/2013 13:54	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.2	%REC	1	08/16/2013 13:54	91091
Surr: Dibromofluoromethane		77.7-120		97.5	%REC	1	08/16/2013 13:54	91091
Surr: Toluene-d8		86-116		102.5	%REC	1	08/16/2013 13:54	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-005

Client Sample ID: OS-5 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 8:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		19.3	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:12	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		45.2	%REC	1	08/19/2013 15:12	91079
Surr: Nitrobenzene-d5		26.3-87.6		56.8	%REC	1	08/19/2013 15:12	91079
Surr: p-Terphenyl-d14		51-107		82	%REC	1	08/19/2013 15:12	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 14:20	91091
Ethylbenzene	NELAP	4.7		ND	µg/Kg-dry	1	08/16/2013 14:20	91091
Methyl tert-butyl ether	NELAP	1.9	J	1.9	µg/Kg-dry	1	08/16/2013 14:20	91091
Toluene	NELAP	4.7		ND	µg/Kg-dry	1	08/16/2013 14:20	91091
Xylenes, Total	NELAP	4.7		ND	µg/Kg-dry	1	08/16/2013 14:20	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		100.2	%REC	1	08/16/2013 14:20	91091
Surr: 4-Bromofluorobenzene		82.1-116		93.2	%REC	1	08/16/2013 14:20	91091
Surr: Dibromofluoromethane		77.7-120		94.2	%REC	1	08/16/2013 14:20	91091
Surr: Toluene-d8		86-116		103.7	%REC	1	08/16/2013 14:20	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-006

Client Sample ID: OS-6 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 9:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		20.8	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 15:45	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	29.3	%REC	1	08/19/2013 15:45	91079
Surr: Nitrobenzene-d5		26.3-87.6		47.9	%REC	1	08/19/2013 15:45	91079
Surr: p-Terphenyl-d14		51-107		84.5	%REC	1	08/19/2013 15:45	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Ethylbenzene	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Methyl tert-butyl ether	NELAP	1.6		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Toluene	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Xylenes, Total	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 14:46	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		108.5	%REC	1	08/16/2013 14:46	91091
Surr: 4-Bromofluorobenzene		82.1-116		97.1	%REC	1	08/16/2013 14:46	91091
Surr: Dibromofluoromethane		77.7-120		96.5	%REC	1	08/16/2013 14:46	91091
Surr: Toluene-d8		86-116		101.1	%REC	1	08/16/2013 14:46	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-007

Client Sample ID: OS-7 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		20.1	%	1	08/16/2013 9:45	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:18	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	33.3	%REC	1	08/19/2013 16:18	91079
Surr: Nitrobenzene-d5		26.3-87.6		53.5	%REC	1	08/19/2013 16:18	91079
Surr: p-Terphenyl-d14		51-107		87.2	%REC	1	08/19/2013 16:18	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 15:11	91091
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:11	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 15:11	91091
Toluene	NELAP	4.2	J	1.1	µg/Kg-dry	1	08/16/2013 15:11	91091
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:11	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		108.4	%REC	1	08/16/2013 15:11	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.8	%REC	1	08/16/2013 15:11	91091
Surr: Dibromofluoromethane		77.7-120		96.4	%REC	1	08/16/2013 15:11	91091
Surr: Toluene-d8		86-116		100.4	%REC	1	08/16/2013 15:11	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group
 Client Project: Parkers/F0908004
 Lab ID: 13080810-008
 Matrix: SOLID

Work Order: 13080810
 Report Date: 21-Aug-13
 Client Sample ID: OS-8 @ 4-5 ft
 Collection Date: 08/13/2013 9:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		18.3	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 16:49	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		39.8	%REC	1	08/19/2013 16:49	91079
Surr: Nitrobenzene-d5		26.3-87.6		49.4	%REC	1	08/19/2013 16:49	91079
Surr: p-Terphenyl-d14		51-107		78.1	%REC	1	08/19/2013 16:49	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Toluene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 15:37	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		105.2	%REC	1	08/16/2013 15:37	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.4	%REC	1	08/16/2013 15:37	91091
Surr: Dibromofluoromethane		77.7-120		95.9	%REC	1	08/16/2013 15:37	91091
Surr: Toluene-d8		86-116		102	%REC	1	08/16/2013 15:37	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-009

Client Sample ID: OS-9 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 9:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		15.4	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:22	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	35.3	%REC	1	08/19/2013 17:22	91079
Surr: Nitrobenzene-d5		26.3-87.6		45.9	%REC	1	08/19/2013 17:22	91079
Surr: p-Terphenyl-d14		51-107		81.6	%REC	1	08/19/2013 17:22	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Methyl tert-butyl ether	NELAP	1.7		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Toluene	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	08/16/2013 16:03	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		111.1	%REC	1	08/16/2013 16:03	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.9	%REC	1	08/16/2013 16:03	91091
Surr: Dibromofluoromethane		77.7-120		97.7	%REC	1	08/16/2013 16:03	91091
Surr: Toluene-d8		86-116		101.8	%REC	1	08/16/2013 16:03	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group
 Client Project: Parkers/F0908004
 Lab ID: 13080810-010
 Matrix: SOLID

Work Order: 13080810
 Report Date: 21-Aug-13
 Client Sample ID: OS-10 @ 4-5 ft
 Collection Date: 08/13/2013 9:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		17.5	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 17:54	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	34.2	%REC	1	08/19/2013 17:54	91079
Surr: Nitrobenzene-d5		26.3-87.6		51.6	%REC	1	08/19/2013 17:54	91079
Surr: p-Terphenyl-d14		51-107		82.1	%REC	1	08/19/2013 17:54	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Methyl tert-butyl ether	NELAP	1.8		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Toluene	NELAP	4.5	J	1.4	µg/Kg-dry	1	08/16/2013 16:29	91091
Xylenes, Total	NELAP	4.5		ND	µg/Kg-dry	1	08/16/2013 16:29	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.6	%REC	1	08/16/2013 16:29	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.8	%REC	1	08/16/2013 16:29	91091
Surr: Dibromofluoromethane		77.7-120		98.1	%REC	1	08/16/2013 16:29	91091
Surr: Toluene-d8		86-116		100.2	%REC	1	08/16/2013 16:29	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-011

Client Sample ID: OS-11 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 9:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		17.3	%	1	08/16/2013 9:46	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:26	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		42.5	%REC	1	08/19/2013 18:26	91079
Surr: Nitrobenzene-d5		26.3-87.6		52.1	%REC	1	08/19/2013 18:26	91079
Surr: p-Terphenyl-d14		51-107		82.1	%REC	1	08/19/2013 18:26	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 16:55	91091
Ethylbenzene	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 16:55	91091
Methyl tert-butyl ether	NELAP	1.6		ND	µg/Kg-dry	1	08/16/2013 16:55	91091
Toluene	NELAP	4	J	0.9	µg/Kg-dry	1	08/16/2013 16:55	91091
Xylenes, Total	NELAP	4		ND	µg/Kg-dry	1	08/16/2013 16:55	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.1	%REC	1	08/16/2013 16:55	91091
Surr: 4-Bromofluorobenzene		82.1-116		96.4	%REC	1	08/16/2013 16:55	91091
Surr: Dibromofluoromethane		77.7-120		97.4	%REC	1	08/16/2013 16:55	91091
Surr: Toluene-d8		86-116		102.1	%REC	1	08/16/2013 16:55	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-012

Client Sample ID: OS-12 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 10:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		15.6	%	1	08/16/2013 9:47	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 18:59	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	32.8	%REC	1	08/19/2013 18:59	91079
Surr: Nitrobenzene-d5		26.3-87.6		41.2	%REC	1	08/19/2013 18:59	91079
Surr: p-Terphenyl-d14		51-107		78.1	%REC	1	08/19/2013 18:59	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Ethylbenzene	NELAP	4.1		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Methyl tert-butyl ether	NELAP	1.6		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Toluene	NELAP	4.1		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Xylenes, Total	NELAP	4.1		ND	µg/Kg-dry	1	08/16/2013 17:21	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		104.8	%REC	1	08/16/2013 17:21	91091
Surr: 4-Bromofluorobenzene		82.1-116		94.8	%REC	1	08/16/2013 17:21	91091
Surr: Dibromofluoromethane		77.7-120		95.5	%REC	1	08/16/2013 17:21	91091
Surr: Toluene-d8		86-116		102.6	%REC	1	08/16/2013 17:21	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-013

Client Sample ID: OS-13 @ 8-9 ft

Matrix: SOLID

Collection Date: 08/13/2013 10:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		23.4	%	1	08/16/2013 9:47	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 19:31	91079
Surr: 2-Fluorobiphenyl		35.7-88.4		42.4	%REC	1	08/19/2013 19:31	91079
Surr: Nitrobenzene-d5		26.3-87.6		54.7	%REC	1	08/19/2013 19:31	91079
Surr: p-Terphenyl-d14		51-107		86.8	%REC	1	08/19/2013 19:31	91079
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Methyl tert-butyl ether	NELAP	1.9		3.1	µg/Kg-dry	1	08/16/2013 17:48	91091
Toluene	NELAP	4.6		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Xylenes, Total	NELAP	4.6		ND	µg/Kg-dry	1	08/16/2013 17:48	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		110.6	%REC	1	08/16/2013 17:48	91091
Surr: 4-Bromofluorobenzene		82.1-116		95.5	%REC	1	08/16/2013 17:48	91091
Surr: Dibromofluoromethane		77.7-120		98.5	%REC	1	08/16/2013 17:48	91091
Surr: Toluene-d8		86-116		102.1	%REC	1	08/16/2013 17:48	91091



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Lab ID: 13080810-014

Client Sample ID: OS-14 @ 4-5 ft

Matrix: SOLID

Collection Date: 08/13/2013 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		18.8	%	1	08/16/2013 9:47	R180756
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	08/19/2013 20:03	91079
Surr: 2-Fluorobiphenyl		35.7-88.4	S	35	%REC	1	08/19/2013 20:03	91079
Surr: Nitrobenzene-d5		26.3-87.6		45.6	%REC	1	08/19/2013 20:03	91079
Surr: p-Terphenyl-d14		51-107		80.8	%REC	1	08/19/2013 20:03	91079
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Ethylbenzene	NELAP	4.4		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Methyl tert-butyl ether	NELAP	1.8		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Toluene	NELAP	4.4	J	0.9	µg/Kg-dry	1	08/16/2013 18:14	91091
Xylenes, Total	NELAP	4.4		ND	µg/Kg-dry	1	08/16/2013 18:14	91091
Surr: 1,2-Dichloroethane-d4		72.2-131		111.4	%REC	1	08/16/2013 18:14	91091
Surr: 4-Bromofluorobenzene		82.1-116		97.5	%REC	1	08/16/2013 18:14	91091
Surr: Dibromofluoromethane		77.7-120		98.1	%REC	1	08/16/2013 18:14	91091
Surr: Toluene-d8		86-116		100.9	%REC	1	08/16/2013 18:14	91091



Receiving Check List

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 13080810

Client Project: Parkers/F0908004

Report Date: 21-Aug-13

Carrier: Sean Spinner

Received By: EEP

Completed by:

Emily Pohlman

Reviewed by:

Marvin L. Darling II

On:

16-Aug-13

Emily E. Pohlman

On:

16-Aug-13

Marvin L. Darling

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 4.8
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water - at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

MLOJ
(Initial)

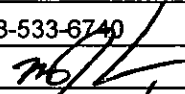
7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

MLOJ
(Initial)

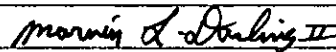
D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Marvin Johnson
Title Sr PM
Company CEG Inc
Address PO Box AB
City Centralia
State IL
Zip Code 62801
Phone 618-533-6740
Signature 
Date 8/21/13

Laboratory Representative

Name Marvin L. Darling II
Title Project Manager
Company Texlab, Inc.
Address 5445 Horseshoe Lake Rd.
City Collinsville
State IL
Zip Code 62234
Phone 618-344-1004
Signature 
Date 8/21/13



October 24, 2014

Marvin Johnson
Chase Environmental Group
P.O. Drawer AB
Centralia, IL 62801
TEL: (618) 533-6740
FAX: (618) 533-6741



WorkOrder: 14101048

RE: Parkers/F0908004

Dear Marvin Johnson:

TEKLAB, INC received 23 samples on 10/17/2014 3:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Marvin L. Darling II".

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

This reporting package includes the following:

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Definitions	3
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Laboratory Results	5
Receiving Check List	28
Chain of Custody	Appended



Definitions

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCS D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Cooler Receipt Temp: 1.2 °C

Locations and Accreditations

	Collinsville	Springfield	Kansas City	Collinsville Air
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2015	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2015	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2015	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2015	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2015	Collinsville
Arkansas	ADEQ	88-0966		3/14/2015	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	KDEP	98006		12/31/2014	Collinsville
Kentucky	UST	0073		1/31/2015	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2015	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group
 Client Project: Parkers/F0908004
 Lab ID: 14101048-001
 Matrix: GROUNDWATER

Work Order: 14101048
 Report Date: 24-Oct-14

Client Sample ID: MW01
 Collection Date: 10/16/2014 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:21	103246
Surr: 2-Fluorobiphenyl		34.3-105		75	%REC	1	10/23/2014 9:21	103246
Surr: 2-Fluorophenol		19.9-55.7		38.9	%REC	1	10/23/2014 9:21	103246
Surr: Nitrobenzene-d5		36.4-127		58.5	%REC	1	10/23/2014 9:21	103246
Surr: Phenol-d5		8.95-38.5		25.8	%REC	1	10/23/2014 9:21	103246
Surr: p-Terphenyl-d14		6.05-133		77.8	%REC	1	10/23/2014 9:21	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/20/2014 23:45	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/20/2014 23:45	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/20/2014 23:45	103215
Toluene	NELAP	5		ND	µg/L	1	10/20/2014 23:45	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/20/2014 23:45	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101	%REC	1	10/20/2014 23:45	103215
Surr: 4-Bromofluorobenzene		86-119		100.2	%REC	1	10/20/2014 23:45	103215
Surr: Dibromofluoromethane		81.7-123		101.2	%REC	1	10/20/2014 23:45	103215
Surr: Toluene-d8		84.3-114		98.2	%REC	1	10/20/2014 23:45	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-002

Client Sample ID: MW02

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 9:53	103246
Surr: 2-Fluorobiphenyl		34.3-105		79.3	%REC	1	10/23/2014 9:53	103246
Surr: 2-Fluorophenol		19.9-55.7		43.1	%REC	1	10/23/2014 9:53	103246
Surr: Nitrobenzene-d5		36.4-127		59.9	%REC	1	10/23/2014 9:53	103246
Surr: Phenol-d5		8.95-38.5		28	%REC	1	10/23/2014 9:53	103246
Surr: p-Terphenyl-d14		6.05-133		87.6	%REC	1	10/23/2014 9:53	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 0:12	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 0:12	103215
Methyl tert-butyl ether	NELAP	2		9	µg/L	1	10/21/2014 0:12	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 0:12	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 0:12	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		100.4	%REC	1	10/21/2014 0:12	103215
Surr: 4-Bromofluorobenzene		86-119		99	%REC	1	10/21/2014 0:12	103215
Surr: Dibromofluoromethane		81.7-123		101.6	%REC	1	10/21/2014 0:12	103215
Surr: Toluene-d8		84.3-114		97.5	%REC	1	10/21/2014 0:12	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-003

Client Sample ID: MW03

Matrix: GROUNDWATER

Collection Date: 10/16/2014 15:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Naphthalene	NELAP	0.0001		0.00279	mg/L	1	10/23/2014 10:24	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:24	103246
Surr: 2-Fluorobiphenyl		34.3-105		81.3	%REC	1	10/23/2014 10:24	103246
Surr: 2-Fluorophenol		19.9-55.7		44	%REC	1	10/23/2014 10:24	103246
Surr: Nitrobenzene-d5		36.4-127		81.7	%REC	1	10/23/2014 10:24	103246
Surr: Phenol-d5		8.95-38.5		30.3	%REC	1	10/23/2014 10:24	103246
Surr: p-Terphenyl-d14		6.05-133		84.6	%REC	1	10/23/2014 10:24	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20		342	µg/L	10	10/21/2014 0:39	103215
Ethylbenzene	NELAP	50	J	14	µg/L	10	10/21/2014 0:39	103215
Methyl tert-butyl ether	NELAP	20		1800	µg/L	10	10/21/2014 0:39	103215
Toluene	NELAP	50		ND	µg/L	10	10/21/2014 0:39	103215
Xylenes, Total	NELAP	50		90.4	µg/L	10	10/21/2014 0:39	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.5	%REC	10	10/21/2014 0:39	103215
Surr: 4-Bromofluorobenzene		86-119		99.6	%REC	10	10/21/2014 0:39	103215
Surr: Dibromofluoromethane		81.7-123		104.4	%REC	10	10/21/2014 0:39	103215
Surr: Toluene-d8		84.3-114		96.4	%REC	10	10/21/2014 0:39	103215

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-004

Client Sample ID: MW04

Matrix: GROUNDWATER

Collection Date: 10/16/2014 15:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Naphthalene	NELAP	0.0001		0.00346	mg/L	1	10/23/2014 10:56	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 10:56	103246
Surr: 2-Fluorobiphenyl		34.3-105		65	%REC	1	10/23/2014 10:56	103246
Surr: 2-Fluorophenol		19.9-55.7		34.2	%REC	1	10/23/2014 10:56	103246
Surr: Nitrobenzene-d5		36.4-127		51.4	%REC	1	10/23/2014 10:56	103246
Surr: Phenol-d5		8.95-38.5		22.4	%REC	1	10/23/2014 10:56	103246
Surr: p-Terphenyl-d14		6.05-133		84	%REC	1	10/23/2014 10:56	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20		809	µg/L	10	10/21/2014 1:07	103215
Ethylbenzene	NELAP	50	J	19	µg/L	10	10/21/2014 1:07	103215
Methyl tert-butyl ether	NELAP	20		312	µg/L	10	10/21/2014 1:07	103215
Toluene	NELAP	50	J	11	µg/L	10	10/21/2014 1:07	103215
Xylenes, Total	NELAP	50	J	48	µg/L	10	10/21/2014 1:07	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.4	%REC	10	10/21/2014 1:07	103215
Surr: 4-Bromofluorobenzene		86-119		99.8	%REC	10	10/21/2014 1:07	103215
Surr: Dibromofluoromethane		81.7-123		103.3	%REC	10	10/21/2014 1:07	103215
Surr: Toluene-d8		84.3-114		96.4	%REC	10	10/21/2014 1:07	103215

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group
 Client Project: Parkers/F0908004
 Lab ID: 14101048-005
 Matrix: GROUNDWATER

Work Order: 14101048
 Report Date: 24-Oct-14

Client Sample ID: MW05
 Collection Date: 10/16/2014 15:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.025		ND	mg/L	250	10/23/2014 14:36	103246
Acenaphthylene	NELAP	0.025		ND	mg/L	250	10/23/2014 14:36	103246
Anthracene	NELAP	0.0001		0.00692	mg/L	1	10/23/2014 11:27	103246
Benzo(a)anthracene	NELAP	0.0001		0.00094	mg/L	1	10/23/2014 11:27	103246
Benzo(a)pyrene	NELAP	0.0001		0.00058	mg/L	1	10/23/2014 11:27	103246
Benzo(b)fluoranthene	NELAP	0.0001		0.00055	mg/L	1	10/23/2014 11:27	103246
Benzo(g,h,i)perylene	NELAP	0.0001		0.00082	mg/L	1	10/23/2014 11:27	103246
Benzo(k)fluoranthene	NELAP	0.0001		0.00012	mg/L	1	10/23/2014 11:27	103246
Chrysene	NELAP	0.0001		0.00069	mg/L	1	10/23/2014 11:27	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:27	103246
Fluoranthene	NELAP	0.0001		0.00248	mg/L	1	10/23/2014 11:27	103246
Fluorene	NELAP	0.025	J	0.023	mg/L	250	10/23/2014 14:36	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		0.00015	mg/L	1	10/23/2014 11:27	103246
Naphthalene	NELAP	0.025		3	mg/L	250	10/23/2014 14:36	103246
Phenanthrene	NELAP	0.0001		0.0211	mg/L	1	10/23/2014 11:27	103246
Pyrene	NELAP	0.0001		0.00701	mg/L	1	10/23/2014 11:27	103246
Surr: 2-Fluorobiphenyl		34.3-105	S	185	%REC	250	10/23/2014 14:36	103246
Surr: 2-Fluorophenol		19.9-55.7		30	%REC	250	10/23/2014 14:36	103246
Surr: Nitrobenzene-d5		36.4-127	S	202.5	%REC	250	10/23/2014 14:36	103246
Surr: Phenol-d5		8.95-38.5	S	287.5	%REC	250	10/23/2014 14:36	103246
Surr: p-Terphenyl-d14		6.05-133		83.5	%REC	1	10/23/2014 11:27	103246

Surrogate recovery is outside QC limits due to matrix interference.

Elevated reporting limit due to matrix interference.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	200		7000	µg/L	100	10/22/2014 13:13	103247
Ethylbenzene	NELAP	500		2540	µg/L	100	10/22/2014 13:13	103247
Methyl tert-butyl ether	NELAP	200		355	µg/L	100	10/22/2014 13:13	103247
Toluene	NELAP	500		16400	µg/L	100	10/22/2014 13:13	103247
Xylenes, Total	NELAP	500		15200	µg/L	100	10/22/2014 13:13	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		98.6	%REC	100	10/22/2014 13:13	103247
Surr: 4-Bromofluorobenzene		86-119		99.7	%REC	100	10/22/2014 13:13	103247
Surr: Dibromofluoromethane		81.7-123		101	%REC	100	10/22/2014 13:13	103247
Surr: Toluene-d8		84.3-114		97.7	%REC	100	10/22/2014 13:13	103247

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-006

Client Sample ID: MW09

Matrix: GROUNDWATER

Collection Date: 10/16/2014 13:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		0.00016	mg/L	1	10/22/2014 18:26	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Fluorene	NELAP	0.0001		0.00019	mg/L	1	10/22/2014 18:26	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Naphthalene	NELAP	0.0001		0.0145	mg/L	1	10/22/2014 18:26	103246
Phenanthrene	NELAP	0.0001		0.00024	mg/L	1	10/22/2014 18:26	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:26	103246
Surr: 2-Fluorobiphenyl		34.3-105		89.4	%REC	1	10/22/2014 18:26	103246
Surr: 2-Fluorophenol		19.9-55.7		50.5	%REC	1	10/22/2014 18:26	103246
Surr: Nitrobenzene-d5		36.4-127		67.8	%REC	1	10/22/2014 18:26	103246
Surr: Phenol-d5		8.95-38.5		34.4	%REC	1	10/22/2014 18:26	103246
Surr: p-Terphenyl-d14		6.05-133		99	%REC	1	10/22/2014 18:26	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 13:40	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 13:40	103247
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/22/2014 13:40	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 13:40	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 13:40	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		103.1	%REC	1	10/22/2014 13:40	103247
Surr: 4-Bromofluorobenzene		86-119		98.8	%REC	1	10/22/2014 13:40	103247
Surr: Dibromofluoromethane		81.7-123		102.7	%REC	1	10/22/2014 13:40	103247
Surr: Toluene-d8		84.3-114		97.6	%REC	1	10/22/2014 13:40	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-007

Client Sample ID: MW10

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 18:57	103246
Surr: 2-Fluorobiphenyl		34.3-105		63.4	%REC	1	10/22/2014 18:57	103246
Surr: 2-Fluorophenol		19.9-55.7		34.9	%REC	1	10/22/2014 18:57	103246
Surr: Nitrobenzene-d5		36.4-127		50.2	%REC	1	10/22/2014 18:57	103246
Surr: Phenol-d5		8.95-38.5		22.9	%REC	1	10/22/2014 18:57	103246
Surr: p-Terphenyl-d14		6.05-133		80.1	%REC	1	10/22/2014 18:57	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 14:08	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 14:08	103247
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/22/2014 14:08	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 14:08	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 14:08	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.2	%REC	1	10/22/2014 14:08	103247
Surr: 4-Bromofluorobenzene		86-119		97.7	%REC	1	10/22/2014 14:08	103247
Surr: Dibromofluoromethane		81.7-123		101.1	%REC	1	10/22/2014 14:08	103247
Surr: Toluene-d8		84.3-114		95.7	%REC	1	10/22/2014 14:08	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-008

Client Sample ID: MW11

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:18	103246
Surr: 2-Fluorobiphenyl		34.3-105		88.9	%REC	1	10/22/2014 15:18	103246
Surr: 2-Fluorophenol		19.9-55.7		52.6	%REC	1	10/22/2014 15:18	103246
Surr: Nitrobenzene-d5		36.4-127		71.5	%REC	1	10/22/2014 15:18	103246
Surr: Phenol-d5		8.95-38.5		34.4	%REC	1	10/22/2014 15:18	103246
Surr: p-Terphenyl-d14		6.05-133		98.4	%REC	1	10/22/2014 15:18	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 14:35	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 14:35	103247
Methyl tert-butyl ether	NELAP	2	J	1.5	µg/L	1	10/22/2014 14:35	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 14:35	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 14:35	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.7	%REC	1	10/22/2014 14:35	103247
Surr: 4-Bromofluorobenzene		86-119		98.2	%REC	1	10/22/2014 14:35	103247
Surr: Dibromofluoromethane		81.7-123		103	%REC	1	10/22/2014 14:35	103247
Surr: Toluene-d8		84.3-114		97	%REC	1	10/22/2014 14:35	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-009

Client Sample ID: MW12

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 15:49	103246
Surr: 2-Fluorobiphenyl		34.3-105		77.2	%REC	1	10/22/2014 15:49	103246
Surr: 2-Fluorophenol		19.9-55.7		42.8	%REC	1	10/22/2014 15:49	103246
Surr: Nitrobenzene-d5		36.4-127		61.5	%REC	1	10/22/2014 15:49	103246
Surr: Phenol-d5		8.95-38.5		28.2	%REC	1	10/22/2014 15:49	103246
Surr: p-Terphenyl-d14		6.05-133		87.5	%REC	1	10/22/2014 15:49	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 3:24	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 3:24	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 3:24	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 3:24	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 3:24	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.5	%REC	1	10/21/2014 3:24	103215
Surr: 4-Bromofluorobenzene		86-119		98.4	%REC	1	10/21/2014 3:24	103215
Surr: Dibromofluoromethane		81.7-123		102.6	%REC	1	10/21/2014 3:24	103215
Surr: Toluene-d8		84.3-114		96.3	%REC	1	10/21/2014 3:24	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-010

Client Sample ID: MW13

Matrix: GROUNDWATER

Collection Date: 10/16/2014 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:20	103246
Surr: 2-Fluorobiphenyl		34.3-105		76.4	%REC	1	10/22/2014 16:20	103246
Surr: 2-Fluorophenol		19.9-55.7		42.7	%REC	1	10/22/2014 16:20	103246
Surr: Nitrobenzene-d5		36.4-127		60.8	%REC	1	10/22/2014 16:20	103246
Surr: Phenol-d5		8.95-38.5		28.3	%REC	1	10/22/2014 16:20	103246
Surr: p-Terphenyl-d14		6.05-133		85.1	%REC	1	10/22/2014 16:20	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 3:51	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 3:51	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 3:51	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 3:51	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 3:51	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		100.6	%REC	1	10/21/2014 3:51	103215
Surr: 4-Bromofluorobenzene		86-119		97.4	%REC	1	10/21/2014 3:51	103215
Surr: Dibromofluoromethane		81.7-123		102.5	%REC	1	10/21/2014 3:51	103215
Surr: Toluene-d8		84.3-114		99.2	%REC	1	10/21/2014 3:51	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-011

Client Sample ID: MW14

Matrix: GROUNDWATER

Collection Date: 10/16/2014 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 16:52	103246
Surr: 2-Fluorobiphenyl		34.3-105		70.4	%REC	1	10/22/2014 16:52	103246
Surr: 2-Fluorophenol		19.9-55.7		38.3	%REC	1	10/22/2014 16:52	103246
Surr: Nitrobenzene-d5		36.4-127		54.2	%REC	1	10/22/2014 16:52	103246
Surr: Phenol-d5		8.95-38.5		24.8	%REC	1	10/22/2014 16:52	103246
Surr: p-Terphenyl-d14		6.05-133		81.7	%REC	1	10/22/2014 16:52	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 4:18	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 4:18	103215
Methyl tert-butyl ether	NELAP	2		145	µg/L	1	10/21/2014 4:18	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 4:18	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 4:18	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.8	%REC	1	10/21/2014 4:18	103215
Surr: 4-Bromofluorobenzene		86-119		98	%REC	1	10/21/2014 4:18	103215
Surr: Dibromofluoromethane		81.7-123		101.7	%REC	1	10/21/2014 4:18	103215
Surr: Toluene-d8		84.3-114		97.6	%REC	1	10/21/2014 4:18	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-012

Client Sample ID: MW15

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:23	103246
Surr: 2-Fluorobiphenyl		34.3-105		70.5	%REC	1	10/22/2014 17:23	103246
Surr: 2-Fluorophenol		19.9-55.7		36.5	%REC	1	10/22/2014 17:23	103246
Surr: Nitrobenzene-d5		36.4-127		54.1	%REC	1	10/22/2014 17:23	103246
Surr: Phenol-d5		8.95-38.5		24.4	%REC	1	10/22/2014 17:23	103246
Surr: p-Terphenyl-d14		6.05-133		83	%REC	1	10/22/2014 17:23	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 4:45	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 4:45	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 4:45	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 4:45	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 4:45	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		99.9	%REC	1	10/21/2014 4:45	103215
Surr: 4-Bromofluorobenzene		86-119		99.9	%REC	1	10/21/2014 4:45	103215
Surr: Dibromofluoromethane		81.7-123		100	%REC	1	10/21/2014 4:45	103215
Surr: Toluene-d8		84.3-114		98.4	%REC	1	10/21/2014 4:45	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-013

Client Sample ID: MW16

Matrix: GROUNDWATER

Collection Date: 10/16/2014 13:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 17:55	103246
Surr: 2-Fluorobiphenyl		34.3-105		75	%REC	1	10/22/2014 17:55	103246
Surr: 2-Fluorophenol		19.9-55.7		40.7	%REC	1	10/22/2014 17:55	103246
Surr: Nitrobenzene-d5		36.4-127		59.8	%REC	1	10/22/2014 17:55	103246
Surr: Phenol-d5		8.95-38.5		26.3	%REC	1	10/22/2014 17:55	103246
Surr: p-Terphenyl-d14		6.05-133		81.9	%REC	1	10/22/2014 17:55	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 5:12	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 5:12	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 5:12	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 5:12	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 5:12	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.2	%REC	1	10/21/2014 5:12	103215
Surr: 4-Bromofluorobenzene		86-119		99.5	%REC	1	10/21/2014 5:12	103215
Surr: Dibromofluoromethane		81.7-123		100.6	%REC	1	10/21/2014 5:12	103215
Surr: Toluene-d8		84.3-114		97	%REC	1	10/21/2014 5:12	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-014

Client Sample ID: MW17

Matrix: GROUNDWATER

Collection Date: 10/16/2014 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:59	103246
Surr: 2-Fluorobiphenyl		34.3-105		72.6	%REC	1	10/23/2014 11:59	103246
Surr: 2-Fluorophenol		19.9-55.7		35.4	%REC	1	10/23/2014 11:59	103246
Surr: Nitrobenzene-d5		36.4-127		56.6	%REC	1	10/23/2014 11:59	103246
Surr: Phenol-d5		8.95-38.5		24.4	%REC	1	10/23/2014 11:59	103246
Surr: p-Terphenyl-d14		6.05-133		78.9	%REC	1	10/23/2014 11:59	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 5:39	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 5:39	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 5:39	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 5:39	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 5:39	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		101.7	%REC	1	10/21/2014 5:39	103215
Surr: 4-Bromofluorobenzene		86-119		99	%REC	1	10/21/2014 5:39	103215
Surr: Dibromofluoromethane		81.7-123		101.5	%REC	1	10/21/2014 5:39	103215
Surr: Toluene-d8		84.3-114		98.3	%REC	1	10/21/2014 5:39	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-015

Client Sample ID: MW18

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Surr: 2-Fluorobiphenyl		34.3-105		72.8	%REC	1	10/23/2014 12:30	103246
Surr: 2-Fluorophenol		19.9-55.7		33.1	%REC	1	10/23/2014 12:30	103246
Surr: Nitrobenzene-d5		36.4-127		59.4	%REC	1	10/23/2014 12:30	103246
Surr: Phenol-d5		8.95-38.5		22.1	%REC	1	10/23/2014 12:30	103246
Surr: p-Terphenyl-d14		6.05-133		71.1	%REC	1	10/23/2014 12:30	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 6:06	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 6:06	103215
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/21/2014 6:06	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 6:06	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 6:06	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		103.2	%REC	1	10/21/2014 6:06	103215
Surr: 4-Bromofluorobenzene		86-119		97.4	%REC	1	10/21/2014 6:06	103215
Surr: Dibromofluoromethane		81.7-123		102.4	%REC	1	10/21/2014 6:06	103215
Surr: Toluene-d8		84.3-114		96.3	%REC	1	10/21/2014 6:06	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-016

Client Sample ID: MW19

Matrix: GROUNDWATER

Collection Date: 10/16/2014 14:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:02	103246
Surr: 2-Fluorobiphenyl		34.3-105		73.7	%REC	1	10/23/2014 13:02	103246
Surr: 2-Fluorophenol		19.9-55.7		33.8	%REC	1	10/23/2014 13:02	103246
Surr: Nitrobenzene-d5		36.4-127		60.4	%REC	1	10/23/2014 13:02	103246
Surr: Phenol-d5		8.95-38.5		23.6	%REC	1	10/23/2014 13:02	103246
Surr: p-Terphenyl-d14		6.05-133		73.9	%REC	1	10/23/2014 13:02	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/21/2014 6:32	103215
Ethylbenzene	NELAP	5		ND	µg/L	1	10/21/2014 6:32	103215
Methyl tert-butyl ether	NELAP	2		88.2	µg/L	1	10/21/2014 6:32	103215
Toluene	NELAP	5		ND	µg/L	1	10/21/2014 6:32	103215
Xylenes, Total	NELAP	5		ND	µg/L	1	10/21/2014 6:32	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.9	%REC	1	10/21/2014 6:32	103215
Surr: 4-Bromofluorobenzene		86-119		98.9	%REC	1	10/21/2014 6:32	103215
Surr: Dibromofluoromethane		81.7-123		102.6	%REC	1	10/21/2014 6:32	103215
Surr: Toluene-d8		84.3-114		99.4	%REC	1	10/21/2014 6:32	103215



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-017

Client Sample ID: MW20

Matrix: GROUNDWATER

Collection Date: 10/16/2014 15:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Naphthalene	NELAP	0.0001		0.00233	mg/L	1	10/23/2014 11:57	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 11:57	103246
Surr: 2-Fluorobiphenyl		34.3-105		76.2	%REC	1	10/23/2014 11:57	103246
Surr: 2-Fluorophenol		19.9-55.7		34.1	%REC	1	10/23/2014 11:57	103246
Surr: Nitrobenzene-d5		36.4-127		60	%REC	1	10/23/2014 11:57	103246
Surr: Phenol-d5		8.95-38.5		25.6	%REC	1	10/23/2014 11:57	103246
Surr: p-Terphenyl-d14		6.05-133		61.5	%REC	1	10/23/2014 11:57	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	40		65.8	µg/L	20	10/21/2014 6:59	103215
Ethylbenzene	NELAP	100	J	44	µg/L	20	10/21/2014 6:59	103215
Methyl tert-butyl ether	NELAP	40		1010	µg/L	20	10/21/2014 6:59	103215
Toluene	NELAP	100		ND	µg/L	20	10/21/2014 6:59	103215
Xylenes, Total	NELAP	100	J	56	µg/L	20	10/21/2014 6:59	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.8	%REC	20	10/21/2014 6:59	103215
Surr: 4-Bromofluorobenzene		86-119		97.7	%REC	20	10/21/2014 6:59	103215
Surr: Dibromofluoromethane		81.7-123		101.4	%REC	20	10/21/2014 6:59	103215
Surr: Toluene-d8		84.3-114		95.9	%REC	20	10/21/2014 6:59	103215

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-018

Client Sample ID: MW21

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		0.00067	mg/L	1	10/23/2014 12:30	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Anthracene	NELAP	0.0001		0.00032	mg/L	1	10/23/2014 12:30	103246
Benzo(a)anthracene	NELAP	0.0001	J	0.00009	mg/L	1	10/23/2014 12:30	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Fluorene	NELAP	0.0001		0.00078	mg/L	1	10/23/2014 12:30	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 12:30	103246
Naphthalene	NELAP	0.0025		0.13	mg/L	25	10/23/2014 14:10	103246
Phenanthrene	NELAP	0.0001		0.00078	mg/L	1	10/23/2014 12:30	103246
Pyrene	NELAP	0.0001		0.00025	mg/L	1	10/23/2014 12:30	103246
Surr: 2-Fluorobiphenyl		34.3-105		50.9	%REC	1	10/23/2014 12:30	103246
Surr: 2-Fluorophenol		19.9-55.7		32.4	%REC	1	10/23/2014 12:30	103246
Surr: Nitrobenzene-d5		36.4-127	S	0	%REC	1	10/23/2014 12:30	103246
Surr: Phenol-d5		8.95-38.5	S	0	%REC	1	10/23/2014 12:30	103246
Surr: p-Terphenyl-d14		6.05-133		72.5	%REC	1	10/23/2014 12:30	103246

Surrogate recovery is outside QC limits due to matrix interference.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Benzene	NELAP	40		380	µg/L	20	10/21/2014 7:26	103215
Ethylbenzene	NELAP	100		343	µg/L	20	10/21/2014 7:26	103215
Methyl tert-butyl ether	NELAP	40	J	12	µg/L	20	10/21/2014 7:26	103215
Toluene	NELAP	100		634	µg/L	20	10/21/2014 7:26	103215
Xylenes, Total	NELAP	100		3580	µg/L	20	10/21/2014 7:26	103215
Surr: 1,2-Dichloroethane-d4		74.7-129		102.3	%REC	20	10/21/2014 7:26	103215
Surr: 4-Bromofluorobenzene		86-119		100.4	%REC	20	10/21/2014 7:26	103215
Surr: Dibromofluoromethane		81.7-123		101.9	%REC	20	10/21/2014 7:26	103215
Surr: Toluene-d8		84.3-114		98.1	%REC	20	10/21/2014 7:26	103215

MS and MSD for m,p-Xylenes did not recover within control limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-019

Client Sample ID: MW22

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:03	103246
Surr: 2-Fluorobiphenyl		34.3-105		74.1	%REC	1	10/23/2014 13:03	103246
Surr: 2-Fluorophenol		19.9-55.7		32.2	%REC	1	10/23/2014 13:03	103246
Surr: Nitrobenzene-d5		36.4-127		52.8	%REC	1	10/23/2014 13:03	103246
Surr: Phenol-d5		8.95-38.5		20.6	%REC	1	10/23/2014 13:03	103246
Surr: p-Terphenyl-d14		6.05-133		58.5	%REC	1	10/23/2014 13:03	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2	J	2	µg/L	1	10/22/2014 15:02	103247
Ethylbenzene	NELAP	5	J	1.5	µg/L	1	10/22/2014 15:02	103247
Methyl tert-butyl ether	NELAP	2		14.3	µg/L	1	10/22/2014 15:02	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 15:02	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 15:02	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		97.2	%REC	1	10/22/2014 15:02	103247
Surr: 4-Bromofluorobenzene		86-119		98.7	%REC	1	10/22/2014 15:02	103247
Surr: Dibromofluoromethane		81.7-123		102.4	%REC	1	10/22/2014 15:02	103247
Surr: Toluene-d8		84.3-114		96.7	%REC	1	10/22/2014 15:02	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-020

Client Sample ID: MW23

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Chrysene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Fluorene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Pyrene	NELAP	0.0001		ND	mg/L	1	10/23/2014 13:37	103246
Surr: 2-Fluorobiphenyl		34.3-105		79.8	%REC	1	10/23/2014 13:37	103246
Surr: 2-Fluorophenol		19.9-55.7		36.1	%REC	1	10/23/2014 13:37	103246
Surr: Nitrobenzene-d5		36.4-127		63	%REC	1	10/23/2014 13:37	103246
Surr: Phenol-d5		8.95-38.5		23.8	%REC	1	10/23/2014 13:37	103246
Surr: p-Terphenyl-d14		6.05-133		77.9	%REC	1	10/23/2014 13:37	103246
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2	J	0.6	µg/L	1	10/22/2014 15:29	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 15:29	103247
Methyl tert-butyl ether	NELAP	2		115	µg/L	1	10/22/2014 15:29	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 15:29	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 15:29	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		99	%REC	1	10/22/2014 15:29	103247
Surr: 4-Bromofluorobenzene		86-119		95.5	%REC	1	10/22/2014 15:29	103247
Surr: Dibromofluoromethane		81.7-123		102.1	%REC	1	10/22/2014 15:29	103247
Surr: Toluene-d8		84.3-114		98.4	%REC	1	10/22/2014 15:29	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-021

Client Sample ID: MW24

Matrix: GROUNDWATER

Collection Date: 10/16/2014 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:19	103210
Surr: 2-Fluorobiphenyl		34.3-105		78.7	%REC	1	10/22/2014 13:19	103210
Surr: 2-Fluorophenol		19.9-55.7		39.7	%REC	1	10/22/2014 13:19	103210
Surr: Nitrobenzene-d5		36.4-127		60.9	%REC	1	10/22/2014 13:19	103210
Surr: Phenol-d5		8.95-38.5		26.4	%REC	1	10/22/2014 13:19	103210
Surr: p-Terphenyl-d14		6.05-133		87.3	%REC	1	10/22/2014 13:19	103210
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 15:55	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 15:55	103247
Methyl tert-butyl ether	NELAP	20		331	µg/L	10	10/23/2014 12:45	103294
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 15:55	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 15:55	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		102.9	%REC	1	10/22/2014 15:55	103247
Surr: 4-Bromofluorobenzene		86-119		98.5	%REC	1	10/22/2014 15:55	103247
Surr: Dibromofluoromethane		81.7-123		101.6	%REC	1	10/22/2014 15:55	103247
Surr: Toluene-d8		84.3-114		98.2	%REC	1	10/22/2014 15:55	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-022

Client Sample ID: MW25

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 13:50	103210
Surr: 2-Fluorobiphenyl		34.3-105		67.1	%REC	1	10/22/2014 13:50	103210
Surr: 2-Fluorophenol		19.9-55.7		33.8	%REC	1	10/22/2014 13:50	103210
Surr: Nitrobenzene-d5		36.4-127		52	%REC	1	10/22/2014 13:50	103210
Surr: Phenol-d5		8.95-38.5		22.1	%REC	1	10/22/2014 13:50	103210
Surr: p-Terphenyl-d14		6.05-133		82.2	%REC	1	10/22/2014 13:50	103210
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 16:22	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 16:22	103247
Methyl tert-butyl ether	NELAP	2		ND	µg/L	1	10/22/2014 16:22	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 16:22	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 16:22	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		101.4	%REC	1	10/22/2014 16:22	103247
Surr: 4-Bromofluorobenzene		86-119		96.5	%REC	1	10/22/2014 16:22	103247
Surr: Dibromofluoromethane		81.7-123		102.9	%REC	1	10/22/2014 16:22	103247
Surr: Toluene-d8		84.3-114		98	%REC	1	10/22/2014 16:22	103247



Laboratory Results

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Lab ID: 14101048-023

Client Sample ID: MW26

Matrix: GROUNDWATER

Collection Date: 10/16/2014 10:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Acenaphthylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(a)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(a)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(b)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(g,h,i)perylene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Benzo(k)fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Chrysene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Dibenzo(a,h)anthracene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Fluoranthene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Fluorene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Indeno(1,2,3-cd)pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Naphthalene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Phenanthrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Pyrene	NELAP	0.0001		ND	mg/L	1	10/22/2014 14:22	103210
Surr: 2-Fluorobiphenyl		34.3-105		73.1	%REC	1	10/22/2014 14:22	103210
Surr: 2-Fluorophenol		19.9-55.7		38	%REC	1	10/22/2014 14:22	103210
Surr: Nitrobenzene-d5		36.4-127		57.7	%REC	1	10/22/2014 14:22	103210
Surr: Phenol-d5		8.95-38.5		26	%REC	1	10/22/2014 14:22	103210
Surr: p-Terphenyl-d14		6.05-133		77.2	%REC	1	10/22/2014 14:22	103210
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2		ND	µg/L	1	10/22/2014 16:49	103247
Ethylbenzene	NELAP	5		ND	µg/L	1	10/22/2014 16:49	103247
Methyl tert-butyl ether	NELAP	2		22.5	µg/L	1	10/22/2014 16:49	103247
Toluene	NELAP	5		ND	µg/L	1	10/22/2014 16:49	103247
Xylenes, Total	NELAP	5		ND	µg/L	1	10/22/2014 16:49	103247
Surr: 1,2-Dichloroethane-d4		74.7-129		103.6	%REC	1	10/22/2014 16:49	103247
Surr: 4-Bromofluorobenzene		86-119		98.4	%REC	1	10/22/2014 16:49	103247
Surr: Dibromofluoromethane		81.7-123		102.5	%REC	1	10/22/2014 16:49	103247
Surr: Toluene-d8		84.3-114		98.3	%REC	1	10/22/2014 16:49	103247



Receiving Check List

<http://www.teklabinc.com/>

Client: Chase Environmental Group

Work Order: 14101048

Client Project: Parkers/F0908004

Report Date: 24-Oct-14

Carrier: Sean Spinner

Received By: SRH

Completed by: *Emily E. Pohlman*
 On: 17-Oct-14
 Emily E. Pohlman

Reviewed by: *Elizabeth A. Hurley*
 On: 17-Oct-14
 Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 1.2
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water - at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: CEG Inc
 Address: PO Box AB
 City / State / Zip: Centralia IL 62801
 Contact: M Johnson Phone: 618 533 6740
 E-Mail: _____ Fax: _____

Samples on: Ice Blue Ice No Ice 12 °C
 Preserved in: Lab Field **FOR LAB USE ONLY**
 Lab Notes: zero headspace 10/17/14 2mL
 Comments: * - obvious odor

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number		Sample Collector's Name		MATRIX							INDICATE ANALYSIS REQUESTED																		
Parkers / F0908004		M Johnson / R Joseph		UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCl	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	PTEX/MTBE	PMA	Teklab, Inc. Collinsville, IL										
Results Requested	Billing Instructions	# and Type of Containers																											
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)		IL LAST																											
Lab Use Only	Sample Identification	Date/Time Sampled																											
	MW-1	10/16/14 14:00	1					2				X					X	X											
	MW-2	14:50																							X				
	MW-3	15:11																							X				
	MW-4	15:21																							X				
	MW-5	15:30																							X				
	MW-9	13:41																							X				
	MW-10	14:28																							X				
	MW-11	14:47																							X				
	MW-12	14:31																							X				
	MW-12	11:21																							X				

Relinquished By	Date / Time	Received By	Date / Time
<u>[Signature]</u>	10/17/14 12:45	<u>[Signature]</u>	10/17/14 1245
<u>[Signature]</u>	10/17/14 1530	<u>[Signature]</u>	10/17/14 1530

CHAIN OF CUSTODY

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: CEG INC.
 Address: P.O. BOX AB
 City / State / Zip: CENTRALIA, IL 62801
 Contact: M. JOHNSON Phone: 618-533-6740
 E-Mail: _____ Fax: _____

Samples on: Ice Blue Ice No Ice _____ °C
 Preserved in: Lab Field FOR LAB USE ONLY
 Lab Notes:
 Comments: ** obvious odor*

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number:			Sample Collector's Name				MATRIX						INDICATE ANALYSIS REQUESTED																						
<u>PARKERS / F0908004</u>			<u>M. JOHNSON / R. JOSEPH</u>				Water	Drinking Water	Soil	Sludge	Sp. Waste	BTEX	PNA																						
Results Requested	Billing Instructions	# and Type of Containers	UNPRES	HNO ₃	NaOH	H ₂ SO ₄								HCL	MeOH	NaHSO ₄	Other <td colspan="12"></td>																		
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)	<u>PL LUST</u>																																		
Lab Use Only	Sample Identification	Date/Time Sampled																																	
<u>14101043-011</u>	<u>MW-14</u>	<u>10-16-14 11:02</u>					<u>2</u>						<u>X</u>	<u>X</u>																					
<u>012</u>	<u>MW-15</u>	<u>10:14</u>																																	
<u>013</u>	<u>MW-16</u>	<u>13:20</u>																																	
<u>014</u>	<u>MW-17</u>	<u>11:13</u>																																	
<u>015</u>	<u>MW-18</u>	<u>10:07</u>																																	
<u>016</u>	<u>MW-19</u>	<u>14:37</u>																																	<u>X</u>
<u>017</u>	<u>MW-20</u>	<u>15:45</u>																																<u>X</u>	
<u>018</u>	<u>MW-21</u>	<u>10:23</u>																																<u>X</u>	
<u>019</u>	<u>MW-22</u>	<u>10:25</u>																																<u>X</u>	
<u>020</u>	<u>MW-23</u>	<u>10:21</u>																																<u>X</u>	
Relinquished By			Date / Time			Received By			Date / Time																										
<u>[Signature]</u>			<u>10/17/14 12:45</u>			<u>[Signature]</u>			<u>10/17/14 12:45</u>																										
<u>[Signature]</u>			<u>10/17/14 15:30</u>			<u>Stephanie Hayes</u>			<u>10/17/14 15:30</u>																										

CHAIN OF CUSTODY

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: CEG, Inc
 Address: PO Box AP
 City / State / Zip: Centerville IL 62801
 Contact: M Johnson Phone: 618 537 6740
 E-Mail: _____ Fax: _____

Samples on: Ice Blue Ice No Ice _____ °C
 Preserved in: Lab Field FOR LAB USE ONLY
 Lab Notes:
 Comments:

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number		Sample Collector's Name		MATRIX				INDICATE ANALYSIS REQUESTED																										
Results Requested		Billing Instructions		# and Type of Containers								Water	Drinking Water	Soil	Sludge	Sp. Waste	BTEX/MTBE	PNA's																
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)		<u>IL LUST</u>		UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other																							
Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	BTEX/MTBE	PNA's																	
<u>14101043</u>	<u>MW-24</u>	<u>10/16/14 11:45</u>	<input checked="" type="checkbox"/>				<u>2</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>022</u>	<u>MW-25</u>	<u>10/11</u>																																
<u>023</u>	<u>MW-26</u>	<u>10/11</u>																																

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAB YELLOW - SAMPLER'S COPY



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
Site Name: Parker's Gas & More
Site Address (Not a P.O. Box): 101 E Outerbelt Drive
City: Clayton County: Adams ZIP Code: 62324

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

mf
(Initial)
mf
(Initial)
mf
(Initial)
mf
(Initial)

C. Laboratory Representative

I certify that: 14101048

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

MLDII
(Initial)
MLDII
(Initial)
MLDII
(Initial)
MLDII
(Initial)
MLDII
(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

M L P II
(Initial)

M L P II
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Sample Collector


Name Marvin Johnson
Title Sr PM
Company CEG Inc
Address PO Box AB
City Centralia MO
State Illinois
Zip Code 62801
Phone 618 533 6740
Signature [Signature]
Date 10/24/14


Laboratory Representative


Name Marvin L. Parlins II
Title Project Manager
Company Teklab, Inc.
Address 5445 Horseshoe Lake Rd.
City Collinsville
State IL
Zip Code 62234
Phone (618) 344-1004
Signature [Signature]
Date 10/24/14


APPENDIX C
Boring Logs


		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				Soil Boring Log		Page 1 of 1					
Project:		Parkers Gas & More				Boring Location:		OS-1					
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners					
Date Completed:		8/13/2013				Surface Elevation:		NA					
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10					
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson					
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description							
1	OS-1		1800	40		0-1': Asphalt and crushed limestone							
2						1' - 10': Black/gray/green silty clay. Obvious petroleum odor & stain							
3													
4													
5													
6			1400	80		End of Boring							
7													
8													
9													
10													


		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				Soil Boring Log		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-2	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1	OS-2		600	80		0-1': Crushed limestone and topsoil			
2						1' - 5': Black silty clay, obvious petroleum odor at 3' - 4'.			
3									
4									
5									
6			1300	100		5' - 10': Firm gray/green silty clay. Strong petroleum odor			
7									
8									
9									
10						End of Boring			


		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				<h1 style="margin: 0;">Soil Boring Log</h1>		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-3	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2						1' - 10': Brown silty clay, obvious petroleum odor at 5' - 10'.			
3				60					
4									
5	OS-3		4						
6									
7						End of Boring			
8			59	20					
9									
10									

 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log		Page 1 of 1					
Project: Parkers Gas & More			Boring Location: OS-4						
Date Drilled: 8/13/2013			Sampling Method: 1 1/2" x 5' Liners						
Date Completed: 8/13/2013			Surface Elevation: NA						
Drilling Method: AMS PowerProbe 9600 (Direct Push)			Total Depth (ft): 10						
Drilling Company: Chase Environmental Group, Inc.			Geologist: Marvin Johnson						
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1	OS-4		0	20		0-1': Topsoil			
2						129	80		1' - 10': Brown silty clay, obvious petroleum odor at 5' - 8'.
3									
4									
5						256	80		Groundwater at 9' - 10'
6									
7									
8									
9	End of Boring								
10									

		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				<h1 style="margin: 0;">Soil Boring Log</h1>		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-5	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2						1' - 10': Brown silty clay, obvious petroleum odor at 5' - 10'.			
3				40					
4									
5	OS-5		23						
6			500						
7						Groundwater at 9'			
8			400	80					
9									
10									

		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				<h1 style="margin: 0;">Soil Boring Log</h1>		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-6	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2						1' - 5': Brown silty clay, no obvious petroleum stain or odor.			
3				60					
4									
5	OS-6		20						
6						5' 10': Firm brown silty to sandy clay.			
7									
8			30	100					
9						Slight petroleum odor at 8'-9'.			
10						End of Boring			


		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				<h1 style="margin: 0;">Soil Boring Log</h1>		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-7	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1	OS-7		33	70		0-1': Topsoil			
2						1' - 5': Brown silty clay, no obvious petroleum stain or odor.			
3									
4									
5									
6			12	100		5' 10': Firm brown silty to wet sandy clay.			
7									
8									
9						Groundwater at 9'. Slight petroleum stain/odor			
10						End of Boring			


 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log		Page 1 of 1		
Project:		Parkers Gas & More		Boring Location: OS-8		
Date Drilled:		8/13/2013		Sampling Method: 1 1/2" x 5' Liners		
Date Completed:		8/13/2013		Surface Elevation: NA		
Drilling Method:		AMS PowerProbe 9600 (Direct Push)		Total Depth (ft): 10		
Drilling Company:		Chase Environmental Group, Inc.		Geologist: Marvin Johnson		
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2				70		1' - 10': Firm brown silty clay.
3						
4						
5	OS-8		0			
6						7'-8': Moderate petroleum stain/odor Groundwater at 8'
7						
8			600	100		
9						
10						
						End of Boring

	CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801	<h1 style="margin: 0;">Soil Boring Log</h1>	Page 1 of 1
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Project: Parkers Gas & More	Boring Location: OS-9
Date Drilled: 8/13/2013	Sampling Method: 1 1/2" x 5' Liners
Date Completed: 8/13/2013	Surface Elevation: NA
Drilling Method: AMS PowerProbe 9600 (Direct Push)	Total Depth (ft): 10
Drilling Company: Chase Environmental Group, Inc.	Geologist: Marvin Johnson

Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1	OS-9					0-1': Topsoil
2						1' - 10': Firm brown silty clay.
3				100		
4						
5				2		
6						8'-9': Moderate petroleum odor Groundwater at 9'
7						
8			247	100		
9						
10						
						End of Boring

 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log			Page 1 of 1	
Project:		Parkers Gas & More		Boring Location: OS-10		
Date Drilled:		8/13/2013		Sampling Method: 1 1/2" x 5' Liners		
Date Completed:		8/13/2013		Surface Elevation: NA		
Drilling Method:		AMS PowerProbe 9600 (Direct Push)		Total Depth (ft): 10		
Drilling Company:		Chase Environmental Group, Inc.		Geologist: Marvin Johnson		
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2						1' - 10': Firm brown silty clay.
3				100		
4						
5	OS-10		57			
6						
7						Obvious petroleum odor at 7'
8			800	100		
9						
10						

 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log		Page 1 of 1		
Project:		Parkers Gas & More		Boring Location: OS-11		
Date Drilled:		8/13/2013		Sampling Method: 1 1/2" x 5' Liners		
Date Completed:		8/13/2013		Surface Elevation: NA		
Drilling Method:		AMS PowerProbe 9600 (Direct Push)		Total Depth (ft): 10		
Drilling Company:		Chase Environmental Group, Inc.		Geologist: Marvin Johnson		
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1	OS-11		0	100		0-1': Topsoil
2						1' - 5': Firm brown silty clay.
3						
4						
5						
6			1050	100		5' - 10': Firm brown silty clay to wet gray sand-sandy clay
7						
8						Obvious petroleum odor at 8'
9						
10						End of Boring





CHASE ENVIRONMENTAL GROUP, INC.
Drilling & Remedial Action Contractors
 418 South Poplar, Centralia, Illinois 62801


Soil Boring Log

Project:	Parkers Gas & More	Boring Location:	OS-12
Date Drilled:	8/13/2013	Sampling Method:	1 1/2" x 5' Liners
Date Completed:	8/13/2013	Surface Elevation:	NA
Drilling Method:	AMS PowerProbe 9600 (Direct Push)	Total Depth (ft):	10
Drilling Company:	Chase Environmental Group, Inc.	Geologist:	Marvin Johnson

Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1	OS-12		2	100		0-1': Topsoil
2						1' - 5': Firm brown silty clay.
3						
4						
5						
6			4	100		5' - 8': Firm brown silty clay to gray sandy clay
7						
8						8' - 10': Firm brown clay
9						
10						End of Boring

		CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801				Soil Boring Log		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		OS-13	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		10	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2						1' - 5': Firm black-brown silty clay. No petroleum stain/odor			
3				40					
4									
5			2						
6						5' - 8': Firm black silty clay to soft moist sandy clay			
7									
8				90					
9	OS-13		12			8' - 10': Wet brown sandy clay. Slight petroleum odor.			
10						End of Boring			

		CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801				<h1 style="margin: 0;">Soil Boring Log</h1>		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		RW-1	
Date Drilled:		8/13/2013				Sampling Method:		1 1/2" x 5' Liners	
Date Completed:		8/13/2013				Surface Elevation:		NA	
Drilling Method:		AMS PowerProbe 9600 (Direct Push)				Total Depth (ft):		15	
Drilling Company:		Chase Environmental Group, Inc.				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2						1' - 5': Firm black silty clay. No petroleum stain/odor			
3				100					
4									
5	OS-14		0						
6						5' - 8': Soft black silty clay			
7									
8			0	90					
9						8' - 10': Gray silty clay - sandy clay			
10						End of Boring			
11									
12									
13									
14									
15									

 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log		Page 1 of 1		
Project: Parkers Gas & More		Boring Location: OS-14				
Date Drilled: 9/3/2013		Sampling Method: 2" x 5' Liners				
Date Completed: 9/3/2013		Surface Elevation: NA				
Drilling Method: Kinematics KPL2 (Augers)		Total Depth (ft): 10				
Drilling Company: Earth Services		Geologist: Marvin Johnson				
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2				100		1' - 5': Firm brown silty clay.
3						
4						
5						
6						5' - 15': Firm Brown clay
7				90		
8						
9						
10						Obvious petroleum stain/odor at 10' - 15'. Groundwater at 10'
11						
12				90		
13						
14						
15						End of Boring





CHASE ENVIRONMENTAL GROUP, INC.
Drilling & Remedial Action Contractors
 418 South Poplar, Centralia, Illinois 62801

Soil Boring Log

Project:	Parkers Gas & More	Boring Location:	FP-1
Date Drilled:	9/4/2013	Sampling Method:	2" x 5' Liners
Date Completed:	9/4/2013	Surface Elevation:	NA
Drilling Method:	Kinematics KPL2 (Augers)	Total Depth (ft):	10
Drilling Company:	Earth Services	Geologist:	Marvin Johnson

Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2				100		1' - 5': Firm brown silty clay. Slight petroleum odor
3						
4						
5						
6				90		5' - 15': Firm Brown clay
7						
8						
9						
10						Obvious petroleum stain/odor at 10' - 15'. Groundwater at 10'
11				90		
12						
13						
14						
15						End of Boring

 CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801		Soil Boring Log		Page 1 of 1		
Project: Parkers Gas & More			Boring Location: FP-2			
Date Drilled: 9/4/2013			Sampling Method: 2" x 5' Liners			
Date Completed: 9/4/2013			Surface Elevation: NA			
Drilling Method: Kinematics KPL2 (Augers)			Total Depth (ft): 10			
Drilling Company: Earth Services			Geologist: Marvin Johnson			
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description
1						0-1': Topsoil
2				100		1' - 11': Firm brown silty clay.
3						
4						
5						
6						
7				100		11' - 15': Moist gray sandy clay
8						
9						
10						
11				90		End of Boring
12						
13						
14						
15						

		CHASE ENVIRONMENTAL GROUP, INC. Drilling & Remedial Action Contractors 418 South Poplar, Centralia, Illinois 62801				Soil Boring Log		Page 1 of 1	
Project:		Parkers Gas & More				Boring Location:		FP-3	
Date Drilled:		9/4/2013				Sampling Method:		2" x 5' Liners	
Date Completed:		9/4/2013				Surface Elevation:		NA	
Drilling Method:		Kinematics KPL2 (Augers)				Total Depth (ft):		10	
Drilling Company:		Earth Services				Geologist:		Marvin Johnson	
Depth (ft)	Sample Number	Blow Count 6"	PID (ppm)	% Recovery	Formation	Geologic Description			
1						0-1': Topsoil			
2				100		1' - 10': Firm brown silty clay to moist, soft brown silty clay			
3									
4									
5									
6						Obvious petroleum odor 5' - 10'			
7				100					
8									
9									
10									
11						10' - 15': Firm brown silty clay			
12				100					
13									
14									
15						End of Boring			

APPENDIX D
Well Completion Forms

	CHASE ENVIRONMENTAL GROUP, INC. <i>Drilling & Remedial Action Contractors</i> 418 South Poplar, Centralia, Illinois 62801	<h2 style="margin:0;">Well Completion Form</h2>	Page 1 of 1
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Project: Parker's Gas & More	Well Location: RW-1
Date Drilled: 9/3/2013	Driller:
Date Completed: 9/3/2013	Incident #: 951012
Drilling Method: Kinematics KPL-2 (Augers)	Drilling Fluids: None
Drilling Company: Earth Services	Geologist: Marvin Johnson

Annular Space Details

Type of Surface Seal:	Concrete
Type of Annular Sealant:	Bentonite
Type of Bentonite Seal:	Granular
Type of Sand Pack:	Filter

Well Construction Materials

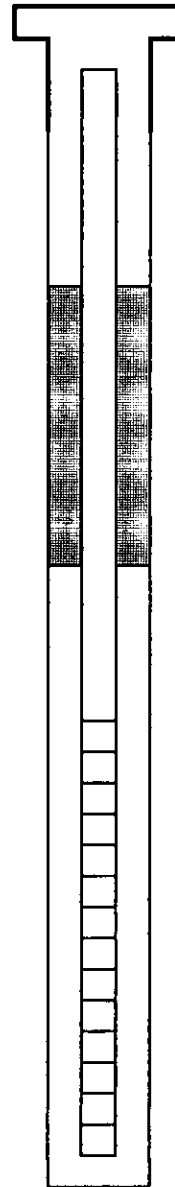
	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint		4"	
Riser Pipe Above W.T.		4"	
Riser Pipe Below W.T.		4"	
Screen		4"	
Coupling Joint Screen to Riser		4"	
Protective Casing	12"		

Measurements to 0.01 ft (where applicable)

Riser Pipe Length	4.75
Screen Length	10
Screen Slot Size	0.01
Protective Casing Length (inches)	12
Depth to Water	13.85
Elevation of Water	
Free Product Thickness	0
Gallons Removed (Developed)	0.5
Gallons Removed (Purged)	1
Surveyed Flush Mount Elevation	0
Borehole Diameter (inches)	8.25"

Survey Information

	Date	Depth to Water (ft)	Elevation of Water (ft)	Surveyor or Sampler
1				
2				
3				
4				



Elevations - 0.01 ft

- 0.00 Top of Protective Casing
- 0.25 Top of Riser Pipe
- 0.00 Ground Surface
- 0.50 Top of Annular Sealant
- _____ Casing Stickup

- 2.00 Top of Seal
- 2.00 Total Seal Interval

- 4.00 Top of Sand

- 5.00 Top of Screen

- 10.00 Total Screen Interval

- 15.00 Bottom of Screen
- 15.00 Bottom of Borehole

Drawing not to scale

Completed by: Marvin Johnson

Project: Parker's Gas & More	Well Location: FP-1
Date Drilled: 9/4/2013	Driller:
Date Completed: 9/4/2013	Incident #: 951012
Drilling Method: Kinematics KPL-2 (Augers)	Drilling Fluids: None
Drilling Company: Earth Services	Geologist: Marvin Johnson

Annular Space Details

Type of Surface Seal:	Concrete
Type of Annular Sealant:	Bentonite
Type of Bentonite Seal:	Granular
Type of Sand Pack:	Filter

Well Construction Materials

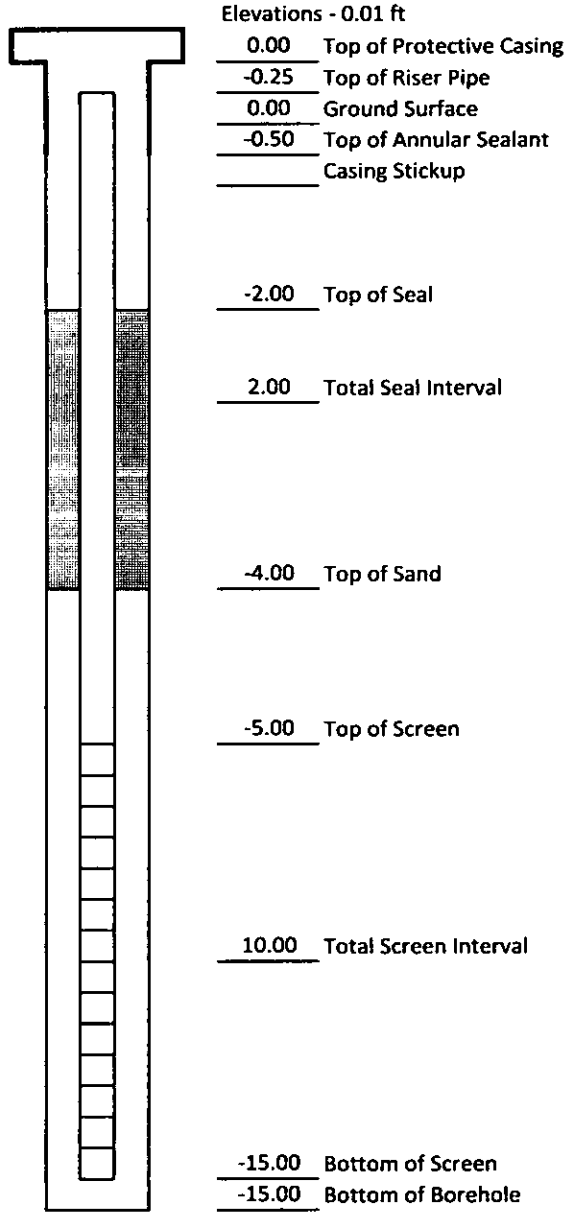
	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint		2"	
Riser Pipe Above W.T.		2"	
Riser Pipe Below W.T.		2"	
Screen		2"	
Coupling Joint Screen to Riser		2"	
Protective Casing	12"		

Measurements to 0.01 ft (where applicable)

Riser Pipe Length	4.75
Screen Length	10
Screen Slot Size	0.01
Protective Casing Length (inches)	12
Depth to Water	7.8
Elevation of Water	
Free Product Thickness	0
Gallons Removed (Developed)	2
Gallons Removed (Purged)	4
Surveyed Flush Mount Elevation	0
Borehole Diameter (inches)	8.25"

Survey Information

	Date	Depth to Water (ft)	Elevation of Water (ft)	Surveyor or Sampler
1				
2				
3				
4				



Drawing not to scale

Completed by: Marvin Johnson



CHASE ENVIRONMENTAL GROUP, INC.
Drilling & Remedial Action Contractors
 418 South Poplar, Centralia, Illinois 62801

Well Completion Form

Project:	Parker's Gas & More	Well Location:	FP-2
Date Drilled:	9/4/2013	Driller:	
Date Completed:	9/4/2013	Incident #:	951012
Drilling Method:	Kinematics KPL-2 (Augers)	Drilling Fluids:	None
Drilling Company:	Earth Services	Geologist:	Marvin Johnson

Annular Space Details

Type of Surface Seal:	Concrete
Type of Annular Sealant:	Bentonite
Type of Bentonite Seal:	Granular
Type of Sand Pack:	Filter

Well Construction Materials

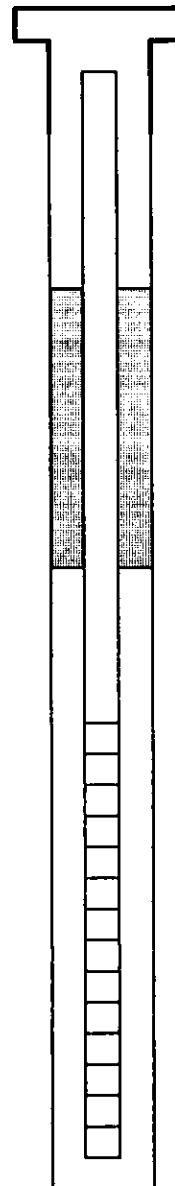
	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint		2"	
Riser Pipe Above W.T.		2"	
Riser Pipe Below W.T.		2"	
Screen		2"	
Coupling Joint Screen to Riser		2"	
Protective Casing	12"		

Measurements to 0.01 ft (where applicable)

Riser Pipe Length	4.75
Screen Length	10
Screen Slot Size	0.01
Protective Casing Length (inches)	12
Depth to Water	14.62
Elevation of Water	
Free Product Thickness	0
Gallons Removed (Developed)	0.5
Gallons Removed (Purged)	
Surveyed Flush Mount Elevation	0
Borehole Diameter (inches)	8.25"

Survey Information

	Date	Depth to Water (ft)	Elevation of Water (ft)	Surveyor or Sampler
1				
2				
3				
4				



Elevations - 0.01 ft

0.00	Top of Protective Casing
-0.25	Top of Riser Pipe
0.00	Ground Surface
-0.50	Top of Annular Sealant
	Casing Stickup
-2.00	Top of Seal
2.00	Total Seal Interval
-4.00	Top of Sand
-5.00	Top of Screen
10.00	Total Screen Interval
-15.00	Bottom of Screen
-15.00	Bottom of Borehole

Drawing not to scale

Completed by: Marvin Johnson



CHASE ENVIRONMENTAL GROUP, INC.
 Drilling & Remedial Action Contractors
 418 South Poplar, Centralia, Illinois 62801

Well Completion Form

Page 1 of 1

Project:	Parker's Gas & More	Well Location:	FP-3
Date Drilled:	9/4/2013	Driller:	
Date Completed:	9/4/2013	Incident #:	951012
Drilling Method:	Kinematics KPL-2 (Augers)	Drilling Fluids:	None
Drilling Company:	Earth Services	Geologist:	Marvin Johnson

Annular Space Details

Type of Surface Seal:	Concrete
Type of Annular Sealant:	Bentonite
Type of Bentonite Seal:	Granular
Type of Sand Pack:	Filter

Well Construction Materials

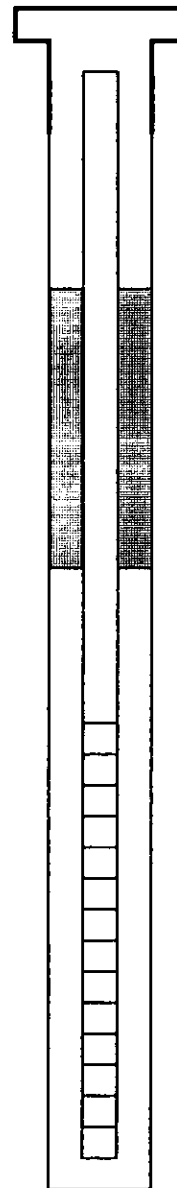
	Stainless Steel Specify Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint		2"	
Riser Pipe Above W.T.		2"	
Riser Pipe Below W.T.		2"	
Screen		2"	
Coupling Joint Screen to Riser		2"	
Protective Casing	12"		

Measurements to 0.01 ft (where applicable)

Riser Pipe Length	4.75
Screen Length	10
Screen Slot Size	0.01
Protective Casing Length (inches)	12
Depth to Water	11.61
Elevation of Water	
Free Product Thickness	0
Gallons Removed (Developed)	1.5
Gallons Removed (Purged)	2.5
Surveyed Flush Mount Elevation	0
Borehole Diameter (inches)	8.25"

Survey Information

	Date	Depth to Water (ft)	Elevation of Water (ft)	Surveyor or Sampler
1				
2				
3				
4				



Elevations - 0.01 ft

0.00	Top of Protective Casing
-0.25	Top of Riser Pipe
0.00	Ground Surface
-0.50	Top of Annular Sealant
	Casing Stickup
-2.00	Top of Seal
2.00	Total Seal Interval
-4.00	Top of Sand
-5.00	Top of Screen
10.00	Total Screen Interval
-15.00	Bottom of Screen
-15.00	Bottom of Borehole

Drawing not to scale

Completed by: Marvin Johnson

APPENDIX E
Property Owner Notification

Suggested letter template for use by site owner/operator or remediation applicant to satisfy the requirements of 742.1015(c):

NOTICE

[Date, etc.]

Dear [Affected Property Owner] [Unit of Local Government]:

[Name of party requesting to use the groundwater ordinance] is performing an environmental response action at [name and address of site (not a P.O. Box)]. The response action is being performed because [state the nature of the release]. The response action consists of [describe the nature of the response action].

To protect human health, Illinois regulations require that [name of party requesting to use the groundwater ordinance] either clean up groundwater contamination or demonstrate that the groundwater in the area of the release will not be used as potable water. (Groundwater is the water beneath the ground stored in the pores of soil and rock; some communities and homeowners pump this water out of wells to supply potable water. Potable means fit for human consumption including drinking, bathing, preparing food, washing dishes, and so forth.)

The [name and address of unit of local government that adopted the ordinance] has an ordinance that strictly prohibits the human and domestic consumption of the groundwater beneath your property. Under Illinois regulations, a local ordinance that effectively prohibits the installation and use of potable water supply wells may be used as an institutional control to allow contamination above the groundwater ingestion remediation objectives to remain in the groundwater (35 Illinois Administrative Code 742.1015). (An institutional control is a legal mechanism for imposing a restriction on land use.) The Illinois Environmental Protection Agency (Illinois EPA) has determined that the ordinance adopted by [name of unit of local government] meets the regulatory requirements for use as an institutional control. [Name of party requesting to use the groundwater ordinance] has requested and has been granted approval from the Illinois EPA to use the groundwater ordinance as an institutional control.

Your property, [legal description, reference to a plat showing boundaries of the property, or accurate street address], is included in the area affected by the ordinance. This means that you cannot install or use a private, potable water well on your property. Based on the remediation objectives established in reliance on this ordinance, groundwater beneath your property may not be suitable for human or domestic consumption. Illinois regulations require that you be notified of these facts.

The ordinance is identified as [ordinance number or citation to unit of local government's municipal code]. If you wish to obtain a copy of the ordinance, please contact [unit of local government, address, and telephone number]. To learn more about [name of site], please contact either [name of party requesting to use the groundwater ordinance, address, and telephone number] or the Illinois EPA, Bureau of Land project manager, [assigned project manager, address, and telephone number]. You may also obtain a copy of the complete Illinois EPA file on [name of site]. To do so, you will need to submit a written request with your signature to the Freedom of Information Act (FOIA) Officer, Illinois EPA, Bureau of Land, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276. When requesting a copy of the file, please reference the file heading shown below:

[LPC Number—County
City/Site Name
Site Address
Site Number]

FOIA requests may also be requested through the Illinois EPA's Web page www.epa.state.il.us/foia.

Sincerely,

[Name of party requesting to use the groundwater ordinance]

APPENDIX F
Budget



Electronic Filing: Received, Clerk's Office 10/23/2020
Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 0010105006 County: Adams

City: Clayton Site Name: Parker's Gas & More

Site Address: 101 East Outer Belt Drive

IEMA Incident No.: 951012

IEMA Notification Date: 5/12/1995

Date this form was prepared: 01/13/2015

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____

Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

RECEIVED
 FEB 20 2015
IEPA/BOL

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Parker's Gas & More

Send in care of: Chase Environmental Group, Inc.

Address: PO Box AB

City: Centralia State: IL Zip: 62801

The payee is the: Owner Operator (Check one or both.)

Ted Parker

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Signature of the owner or operator of the UST(s) (required)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 6 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 951012

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	6,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	6,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Piping Leak
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Piping Leak
Diesel	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Piping Leak
Heating Oil	500	Yes <input type="checkbox"/> No <input type="checkbox"/>	Pre-1974	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 13,312.76
Analytical Costs Form	\$	\$	\$	\$	\$ 48,073.31
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$ 510,844.43
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 23,030.25
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 93,009.98
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 20,976.00
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 709,246.73

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
14	PUSH	10.00	140.00	Overburden Soil Investigation
3	HSA	15.00	45.00	Free Product Observation Wells FP-1 thru FP-3
1	HSA	15.00	15.00	4" Recovery Well RW-1
8	HSA	15.00	120.00	Proposed Post-Abatement Monitoring Wells
1	PUSH	15.00	15.00	Collection of Waste Profile Soil Sample (Drilling Event)

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	180.00	27.94	5,029.20
Total Feet via PUSH:	155.00	21.87	3,389.85
Total Feet for Injection via PUSH:			
Total Drilling Costs:			9,548.81

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
11	HSA	2.00	15.00	165.00
1	4" or 6" Recovery	4.00	15.00	15.00

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	165.00	20.05	3,308.25
Total Feet via PUSH:			
Total Feet of 4" or 6" Recovery:	15.00	30.38	455.70
Total Feet of 8" or Greater Recovery:			
Total Well Costs:			3,763.95

Total Drilling and Monitoring Well Costs:	\$13,312.76
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Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	127	X	103.26	=	\$13,114.02
BETX Water with MTBE EPA 8260	32	X	98.41	=	\$3,149.12
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010	2	X	40.08	=	\$80.16
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)	2	X	17.00	=	\$34.00
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH	2	X	17.00	=	\$34.00
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	127	X	184.66	=	\$23,451.82
Polynuclear Aromatics PNA, or PAH WATER EPA 8270	32	X	184.66	=	\$5,909.12
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	1	X	95.97	=	\$95.97
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)	1	X	13.35	=	\$13.35
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	1	X	19.43	=	\$19.43
Lead Total Soil		X		=	
Lead Water	1	X	21.87	=	\$21.87
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	127	X	12.15	=	\$1,543.05
Sample Shipping per sampling event ¹	10	X	60.74	=	\$607.40

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.**Total Analytical Costs: \$ 48,073.31**

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,230.00	69.25	\$362,177.50

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,230.00	24.30	\$127,089.00

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
2,175.00	7.91	\$17,204.25

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
12	303.73	3,644.76
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
4	182.23	728.92
Total Drum Disposal Costs		4,373.68

Total Remediation and Disposal Costs:	\$510,844.43
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Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (Inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
5,700.00	Asphalt	4.00	2.90		\$16,530.00

Total Concrete and Asphalt Placement/Replacement Costs:	\$16,530.00
--	--------------------

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost (\$)	Total Cost (\$)

Total Building Destruction or Dismantling and Canopy Removal Costs:	
--	--

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost
MW1- MW5 (15' ea)	HSA	75.00	12.15	\$911.25
MW9 - MW18 (15' ea)	HSA	150.00	12.15	\$1,822.50
MW19 & MW20 (20' ea)	HSA	40.00	12.15	\$486.00
MW21 - MW26 (15' ea)	HSA	90.00	12.15	\$1,093.50
FP1 - FP3 (15' ea)	HSA	45.00	12.15	\$546.75
RW1	HSA	15.00	12.15	\$182.25
Proposed Wells Area A	HSA	30.00	12.15	\$364.50
Proposed Wells Area B	HSA	45.00	12.15	\$546.75
Proposed Well Area C	HSA	15.00	12.15	\$182.25
Proposed Wells Area D	HSA	30.00	12.15	\$364.50

Total Monitoring Well Abandonment Costs:	\$6,500.25
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Total Paving, Demolition, and Well Abandonment Costs:	\$23,030.25
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Consulting Personnel Costs Form

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
		Senior Project Manager	8.00	121.49	\$971.92
CCAP	Negotiate access to adjoining properties east (private residential) and south (City park)				
		Senior Project Manager	8.00	121.49	\$971.92
CCAP	Coordinate Aug 2013 overburden soil investigation				
		Senior Project Manager	40.00	121.49	\$4,859.60
CCA-Field	Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10hrs ea)				
		Senior Technician	40.00	78.96	\$3,158.40
CCA-Field	Collect overburden samples, locate/recondition monitoring wells, site mapping (4days x 10hrs ea)				
		Senior Project Manager	50.00	121.49	\$6,074.50
FP-Field	Supervise/document free product investigation, removal & monitoring activities (5 days x 10hrs ea)				
		Senior Project Manager	30.00	121.49	\$3,644.70
CCA-Field	Supervise/document Oct 2014 groundwater investigation (3 days x 10 hrs ea)				
		Senior Technician	30.00	78.96	\$2,368.80
CCA-Field	Oct 2014 groundwater investigation: purge wells, collect groundwater samples (3 days x 10 hrs ea)				
		Senior Project Manager	4.00	121.49	\$485.96
FP-Design	Coordinate/schedule free product investigation, removal & monitoring activities				
		Senior Project Manager	4.00	121.49	\$485.96
CCAP	Coordinate/schedule Oct 2014 groundwater investigation activities				

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Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure contractors/service providers for proposed overburden removal, soil abatement & backfilling			
	Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure access & coordinate field activities with Property Owners and contractors			
	Senior Project Manager	200.00	121.49	\$24,298.00
CCA-Field	Supervise/document overburden removal, soil abatement & backfilling activities (20 days x 10 hrs ea)			
	Senior Technician	200.00	78.96	\$15,792.00
CCA-Field	Collect soil samples, prep. site map, coordinate waste manifests, etc. during soil abatement activities			
	Senior Project Manager	40.00	121.49	\$4,859.60
CCA-Field	Supervise/document post-abatement groundwater investigation activities (4 days x 10 hrs ea)			
	Geologist III	40.00	121.49	\$4,859.60
CCA-Field	Post-abatement groundwater investigation: Log borings, screen soil, document well construction, etc.			
	Senior Project Manager	40.00	121.49	\$4,859.60
CCAP	Draft Jan 2015 CAP & Free Product Removal Report			
	Senior Project Manager	20.00	121.49	\$2,429.80
CCAP-Budget	Prepare Jan 2015 CAP & Free Product Removal Report Budget			
	Senior Prof. Engineer	3.00	157.94	\$473.82
CCAP	Review/certify Jan 2015 CAP & Free Product Removal Report			

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Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
		Senior Prof. Engineer	3.00	157.94	\$473.82
CCAP-Budget	Review/certify Jan 2015 CAP & Free Product Removal Report Budget				
		Senior Draftperson/CAD	8.00	72.88	\$583.04
CCAP	Prepare maps/figures included in Jan 2015 CAP & Free Product Removal Report				
		Senior Admin. Assistant	6.00	54.67	\$328.02
CCAP	Prepare/submit Jan 2015 CAP & Free Product Removal Report to O/O and IEPA				
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Revise contaminant transport models				
		Senior Project Manager	16.00	121.49	\$1,943.84
HAA	Prepare/negotiate HAA between O/O and IDOT				
		Senior Admin. Assistant	4.00	54.67	\$218.68
HAA	Prepare/submit HAA to O/O and IDOT				
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Identify Property Owners requiring notification of groundwater ordinance as Institutional Control				
		Senior Project Manager	4.00	121.49	\$485.96
ELUC	Prepare Property Owner Notification letters.				
		Senior Admin. Assistant	4.00	54.67	\$218.68
ELUC	Prepare/submit notification letters to Property Owners and City of Clayton				

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Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Acct. Technician	40.00	66.81	\$2,672.40
CA-Pay	Prepare reimbursement applications (estimate 2 applications)			
	Senior Prof. Engineer	6.00	157.94	\$947.64
CA-Pay	Review/certify reimbursement applications (estimate 2 applications)			
	Senior Admin. Assistant	12.00	54.67	\$656.04
CA-Pay	Prepare/submit reimbursement applications to O/O & IEPA (estimate 2 applications)			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$93,009.98
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Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Metal Detector		3.00	65.00	Day	\$195.00
CCA-Field	Locate monitoring wells for reconditioning in Aug 2013 & sampling in Oct 2014				
Bailers		23.00	25.00	Each	\$575.00
CCA-Field	Recondition monitoring wells Aug 2013				
Bailers		4.00	25.00	Each	\$100.00
FP-Field	Free Product investigation/removal. Wells RW1 & FP1 - FP3				
Bailers		8.00	25.00	Each	\$200.00
CCA-Field	Proposed post-abatement monitoring wells				
Water Level Indicator		4.00	30.00	Day	\$120.00
CCA-Field	Locate monitoring wells Aug 2013 for reconditioning (2 personnel using 1 indicator each)				
Water Level Indicator		4.00	30.00	Day	\$120.00
FP-Field	Free Product investigation, removal & monitoring				
Water Level Indicator		2.00	30.00	Day	\$60.00
CCA-Field	Oct 2014 groundwater sample collection				
Water Level Indicator		2.00	30.00	Day	\$60.00
CCA-Field	Proposed post-abatement groundwater investigation				
Survey Equipment		1.00	150.00	Day	\$150.00
CCA-Field	Proposed post-abatement groundwater investigation				

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Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Vehicle		4.00	175.00	Day	\$700.00
CCA-Field	Overburden soil investigation and recondition monitoring wells (Aug 2013)				
Vehicle		5.00	175.00	Day	\$875.00
FP-Field	Free Product investigation, removal & monitoring				
Vehicle		3.00	175.00	Day	\$525.00
CCA-Field	Oct 2014 groundwater investigation				
Vehicle		20.00	175.00	Day	\$3,500.00
CCA-Field	Proposed overburden removal/replacement, soil abatement & backfilling				
Vehicle		4.00	175.00	Day	\$700.00
CCA-Field	Proposed post-abatement groundwater investigation				
Hotel		8.00	125.00	Night	\$1,000.00
CCA-Field	Overburden investigation & recondition monitoring wells (2 personnel x 4 nights)				
Hotel		5.00	125.00	Night	\$625.00
FP-Field	Free Product investigation, removal & monitoring				
Hotel		32.00	125.00	Night	\$4,000.00
CCA-Field	Proposed overburden removal, soil abatement & backfilling (2 personnel x 16 nights)				
Hotel		8.00	125.00	Night	\$1,000.00
CCA-Field	Proposed post-abatement groundwater investigation (2 personnel x 4 nights)				

Electronic Filing: Received, Clerk's Office 10/23/2020

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
Per Diem	10.00	42.00	Day	\$420.00
CCA-Field	Overburden investigation & recondition monitoring wells (2 personnel x 5 days w/travel)			
Per Diem	6.00	42.00	Day	\$252.00
FP-Field	Free Product investigation, removal & monitoring (includes travel)			
Per Diem	4.00	42.00	Day	\$168.00
CCA-Field	Aug 2014 groundwater sample collection (includes travel)			
Per Diem	40.00	42.00	Day	\$1,680.00
CCA-Field	Proposed overburden removal, soil abatement, backfilling (2 personnel x 20 days w/travel)			
Per Diem	8.00	42.00	Day	\$336.00
CCA-Field	Proposed post-abatement groundwater investigation (2 personnel x 4 days w/travel)			
Copies	3.00	30.00	Each	\$90.00
CCAP	January 2014 CAP/Free Product Removal Report for O/O (1 copy) & IEPA (2 copies)			
Copies	2.00	30.00	Each	\$60.00
CA-Pay	Copies of reimbursement application for O/O & IEPA (1 each)			
Copies	3.00	30.00	Each	\$90.00
HAA	Copies of proposed HAA for O/O (1 copy) & IDOT (2 copies)			
PID	1.00	135.00	Day	\$135.00
CCA-Field	Overburden soil investigation			

Electronic Filing: Received, Clerk's Office 10/23/2020

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
PID		2.00	135.00	Day	\$270.00
FP-Field	Free Product investigation, installation of RW-1 and FP-1 thru FP-3				
PID		20.00	135.00	Day	\$2,700.00
CCA-Field	Proposed overburden removal/replacement & soil abatement				
PID		2.00	135.00	Day	\$270.00
CCA-Field	Proposed post-abatement groundwater investigation				
Total of Consultant Materials Costs					\$20,976.00

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 951012. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Parker's Gas & More, Inc.

Authorized Representative: Ted Parker

Title: President

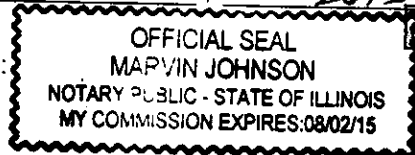
Signature: Ted Parker

Date: 2/10/15

Subscribed and sworn to before me the 10th day of Feb, 2015

[Signature]
(Notary Public)

Seal:

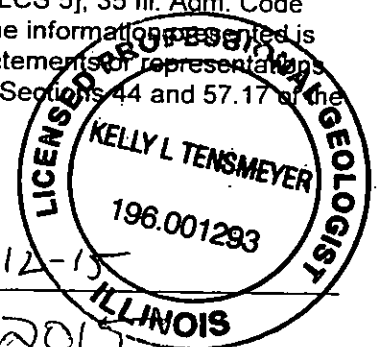


RECEIVED

FEB 20 2015

EPA/BOL

In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].



L.P.E./L.P.G.: Kelly L. Tensmeyer

L.P.E./L.P.G. Seal:

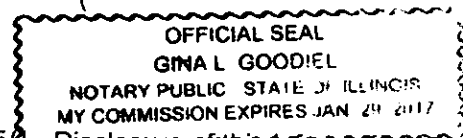
L.P.E./L.P.G. Signature: Kelly L. Tensmeyer

Date: 2-12-15

Subscribed and sworn to before me the 12th day of February, 2015

[Signature]
(Notary Public)

Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/... Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Office of the Illinois
State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

RECEIVED AMENDED

JUL 23 2007

July 18, 2007

BY: DL

Parker's Gas and More
P.O. Box 236
Clayton, IL 62324

In Re: Facility No. 5-013158
IEMA Incident No. 95-1012
Parker Gas-N-More, Inc.
101 E Outerbelt Dr., Hwy. 24
P.O. Box 236
Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

- Tank 3 4,000 gallon Gasoline
- Tank 4 4,000 gallon Gasoline
- Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline
Tank 2 6,000 gallon Gasoline
Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,



Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

RECEIVED

FEB 20 2015

IEPA/BOL



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829
BRUCE RAUNER, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

7013 2630 0001 4708 4606

MAY 20 2015

Parker's Gas & More, Inc.
Attn: Ted Parker
2970 N 2050th Avenue
Clayton, Illinois 62324

Re: LPC #0010105006 -- Adams County
Clayton/Parker's Gas & More, Inc.
101 East Outer Belt Drive
Leaking UST Incident No. 951012
Leaking UST Technical File

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE
JUN 11 2015
REVIEWER EAV

Dear Mr. Parker:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated February 13, 2015, was received by the Illinois EPA on February 20, 2015. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the total budget is approved for the amounts listed in Attachment A. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

NOTE: Pursuant to Section 57.8(a)(5) of the Act, if payment from the Fund will be sought for any additional costs that may be incurred as a result of the Illinois EPA's modifications, an amended budget must be submitted. Amended plans and/or budgets must be submitted and approved prior to the issuance of a No Further Remediation (NFR) Letter. Costs associated with a plan or budget that have not been approved prior to the issuance of an NFR Letter will not be paid from the Fund.

Page 2

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

If you have any questions or need further assistance, please contact Valerie Davis at 217/785-7492.

Sincerely,



Thomas A. Henninger
Unit Manager
Leaking Underground Storage Tank Section.
Division of Remediation Management
Bureau of Land

TAH:vad\

Attachments: A

c: Chase Environmental Group Inc.
BOL File

Attachment A

Re: LPC #0010105006 -- Adams County
Clayton/Parker's Gas & More, Inc.
101 East Outer Belt Drive
Leaking UST Incident No. 951012
Leaking UST Technical File

SECTION 1

The budget was previously approved for:

\$ 53,505.88	Investigation Costs
\$101,855.01	Analysis Costs
\$ 92,472.08	Personnel Costs
\$ 64,193.44	Equipment Costs
\$398,631.35	Field Purchases and Other Costs

As a result of review of the budget at-hand, the following amounts are approved:

\$ 13,312.76	Investigation Costs
\$ 48,073.31	Analysis Costs
\$ 93,009.98	Personnel Costs
\$ 20,976.00	Equipment Costs
\$533,874.68	Field Purchases and Other Costs

Therefore, the total cumulative budget is approved for:

\$ 66,818.64	Investigation Costs
\$149,928.32	Analysis Costs
\$185,482.06	Personnel Costs
\$ 85,169.44	Equipment Costs
\$932,506.03	Field Purchases and Other Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.8(f) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 732.607.

BILL EX/PAYMENT SUMMARY

Reviewer: Melissa Owens Queue Date: 8/16/18 Initial Review Date: 9/28/18
 Subject to Program: 734
 LPC # & County: 0010105006 / Adams PM: Davis
 Site Name: Clayton / Parker's Gas & More Inc.
 LUST Incident--Claim # 951012--69508 Billing Period: 12/1/17 to 6/30/18
 Early Action: _____ Site Class.: _____ Low Priority: _____ High Priority: _____
 Free Product: _____ Site Invest.: _____ Corrective Action: xxxxxxxx

Amount requested for Corrective Action: 577,244.80
SUB TOTAL: \$577,244.80
Less: STANDARD DEDUCTIBLE: met

Less: DEDUCTIONS:

rem and disp-adj backfill for material that was provided free of charge (3,755.42)
 cons mat-grass seed not approved in budget and exceeds min req and not reasonable (563.82)

SUMMARY DATE: _____
 NFR DATE: _____
 OPT-IN DATE: _____ Total Amount Due: \$572,925.56

Payee: Ted Parker Facility: Parker's Gas & More, Inc.
 Attention: c/o Chase Environmental Group, Inc. Address: 101 East Outer Belt Drive
 Address: 2701 East Ash City/State: Clayton, IL 62324
 City/St./Zip: Springfield, IL 62703 County: Adams

Electronic Filing: Received Clerk's Office 10/23/2020

~~TYPE VI~~

TO: Greg Dunn
 FROM: Melissa Owens

Initial Review Date: 9/28/18
 Project Manager: Davis
 Subject to Program: 734

LPC # & County: 0010105006 / Adams
 Site City & Name: Clayton / Parker's Gas & More Inc.
 Site Address: 101 East Outer Belt Drive
 LUST Incident-Claim # 951012--69508
 Queue Date: 8/16/2018
 LUST / FISCAL FILE

The above referenced facility's consultants/contractors submission regarding invoices and billings has been reviewed.

The consultant/contractor in this billing package is: Chase Environmental Group, Inc.

Queue Date: 8/16/18 120 Day Date: 12/14/18
 Revised 120 Day Date: _____
 IEMA: 5/12/95 52 Days After IEMA: 7/3/95
 OSFM: _____ Date of 45 Day Report: _____
 F.P. Discovered: _____ 45 Days After Free Product was Discovered: _____
 E.A. Ext Date: _____ Date of Site Class. Comp. Report: _____
 NFR Date: _____ Date of Site Invest. Comp. Report: _____
 Opt-In Date: _____ Or Stage of Site Invest. work being billed: _____
 Opt-In as New Owner: _____

of Eligible Tanks: 3 Tank Size: 2-4,000 gasoline, 4,000 diesel
 Tank Pull: _____ Planned: _____ Not Planned: _____

The **Billing Period** for this claim covers: 12/1/17 to 6/30/18

The **Amount Requested** in this billing package is: \$577,244.80

The **Budget Amount Approved** for this site is: _____

The **Deductible Applied** to this billing package is: met

Early Action: _____ Site Class.: _____ Low Priority: _____ High Priority: _____
 Free Product: _____ Site Invest.: _____ Corrective Action: xxxxxxx

MANDATORY DOCUMENTS:

- 1. Payment Certification Form.
- 2. Owner/Operator & Professional Engineer/Geologist Billing Certification Form.
- 3. Private Insurance Coverage Questionnaire & Affidavit Forms.
- 4. Federal Taxpayer Identification Number &/or W-9 Form(s):
- 5. Copy of OSFM Eligibility / Deductibility Letter.
- 6. Women / Minority Business Enterprise Form.

(Comments on Page 2)

Electronic Filing: Received, Clerk's Office 10/23/2020

Approved LUST Budget/Billing Tracking Summary

Project Manager: Davis

LUST Incident #: 951012
 LUST Site City & Name: Clayton/Parker's Gas & More, Inc.
 Phase of Work being billed for: LP _____ SC _____ HP _____
 _____ SI _____ CA _____

APPROVED BUDGET AMOUNTS:

Budget Line Items	Approved Costs	Amendment #1	Amendment #2	Amendment #3	Amendment #4	Amendment #5	Approved Cumulative
Date of Approved Budget	2/22/01	3/13/07	9/27/07	5/14/09	5/20/15		
1. Investigative Costs:	29,020.00	13,419.68	0.00	11,066.20	13,312.76		\$66,818.64
2. Analysis Costs:	51,045.00	23,465.99	11,206.96	16,137.06	48,073.31		\$149,928.32
3. Personnel:	53,475.00	14,744.88	3,038.49	21,213.71	93,009.98		\$185,482.06
4. Equipment:	61,275.00	1,222.96	0.00	1,695.48	20,976.00		\$85,169.44
5. Field Purchases & Other:	397,076.00	172.30	211.40	1,171.65	533,874.68		\$932,506.03
6. Handling Charges:	15,195.57	*	*				\$15,195.57
Totals	\$607,086.57	\$53,025.81	\$14,456.85	\$0.00	\$709,246.73	\$0.00	\$1,383,815.96

*HC to be determined at time of billing package review.

AMOUNTS PER CLAIM APPLIED TO APPROVED BUDGET LINES:

Billing Line Items	Billing #1	Billing #2	Billing #3	Billing #4	Billing #5	Billing #6
Date of Billing	4/11/01	1/23/06	2/22/06	3/15/06	6/26/06	3/5/07
1. Investigative Costs:	21,442.50	0.00	0.00	0.00		0.00
2. Analysis Costs:	8,862.50	0.00	0.00	7,800.00		0.00
3. Personnel:	17,782.50	4,315.50	9,034.50	5,246.75	4,253.00	6,275.73
4. Equipment:	1,100.00	310.00	1,100.00	790.00	60.00	0.00
5. Field Purchases & Other:	1,431.60	0.00	112,281.37	73,229.49	612.57	406.76
6. Handling Charges:	2,110.20	0.00	1.24	76.09	73.50	30.91
Totals	52,729.30	4,625.50	122,417.11	87,142.33	4,999.07	6,713.40

Billing Line Items	Billing #7	Billing #8	Billing #9	Billing #10	Billing #11	Billing #12
Date of Billing	10/12/07	3/18/08	12/4/07	9/2/08	3/3/10	11/16/10
1. Investigative Costs:	0.00	1,830.37	0.00	3,600.00	534.52	11,518.94
2. Analysis Costs:	0.00	5,986.70	0.00	6,789.52	16,322.59	641.87
3. Personnel:	0.00	6,483.01	4,884.33	11,784.34	19,227.61	3,184.81
4. Equipment:	0.00	169.56	0.00	927.44	1,335.96	729.56
5. Field Purchases & Other:	206.25	593.40	823.80	1,223.90	809.00	175.21
6. Handling Charges:	0.00	277.31	96.81		462.05	0.00
Totals	206.25	15,340.35	5,804.94	24,325.20	38,691.73	16,250.39

AMOUNTS PER CLAIM APPLIED TO APPROVED BUDGET LINES:

Billing Line Items	Billing #13	Billing #14	Billing #15	Billing #16	Billing #17	Billing #18	Billing Cumulative
Date of Billing	7/9/15	6/16/18					
1. Investigative Costs:	5,976.40	0.00					\$44,902.73
2. Analysis Costs:	10,081.74	18,006.06					\$74,490.98
3. Personnel:	34,612.18	43,406.68					\$170,490.94
4. Equipment:	5,283.18	1,705.38					\$13,511.08
5. Field Purchases & Other:	1,488.85	499,315.29					\$692,597.49
6. Handling Charges:	1,739.17	10,492.15					\$15,359.43
Totals	59,181.52	572,925.56	0.00	0.00	0.00	0.00	\$1,011,352.65

BILLING TO BUDGET DIFFERENTIALS:

Budget/Billing Line Items	Line Item Differences
1. Investigative Costs:	\$21,915.91
2. Analysis Costs:	\$75,437.34
3. Personnel:	\$14,991.12
4. Equipment:	\$71,658.36
5. Field Purchases & Other:	\$239,908.54
6. Handling Charges:	(\$163.86)

new

Handling Charges Form

Subcontract or Field Purchase Cost:

- \$0 - \$5,000
- \$5,001 - \$15,000
- \$15,001 - \$50,000
- \$50,001 - \$100,000
- \$100,001 - \$1,000,000

Eligible Handling Charges as a Percentage of Cost:

- 12%
- \$600 + 10% of amt. over \$5,000
- \$1,600 + 8% of amt. over \$15,000
- \$4,400 + 5% of amt. over \$50,000
- \$6,900 + 2% of amt. over \$100,000

Subcontractor Name or Field Purchase	Type of Work Performed by Subcontractor	Subcontractor or Field Purchase Amount (\$)
PDC lab	CA samples	17,500.58 ✓
Hickory Ridge Landfill	Contaminated soil disposal	131,979.67 ✓
Beaird Trucking	Trucking services	91,058.00 ✓
Central Stone Company	Backfill	38,609.06 ✓
Corp Production	Backfill	460.00 ✓
Total Subcontractor and Field Purchase Costs:		\$279,607.31 ✓

Total Handling Charges:	\$10,492.15 ✓
--------------------------------	----------------------

6,900.00
 3,592.15
10,492.15

Clinard Ready Mix, Inc.
P. O. Box 112
Mt. Sterling, IL 62353
217-773-3965

October 5, 2018

To Whom It May Concern:

Chase Environmental Group received 26 loads of washout rock on May 9 to the 11th. No charge for material. No scale available on site was weighed at Corp Product Services.

Respectfully,

A handwritten signature in black ink that reads "Dave Clinard". The signature is written in a cursive style with a large, looped "D" and "C".

Dave Clinard

Owens, Melissa

From: Matthew Rives <mrives@chaseenv.com>
Sent: Tuesday, October 02, 2018 5:23 PM
To: Owens, Melissa
Subject: Re: [External] Re: Parker's Gas & More 951012 corrective action claim
Attachments: Clayton billing cert.pdf; Clayton Handling corrected.pdf; Clayton corp rept invoice.pdf; clayton lab and checks .pdf; clayton backfill tickets.pdf

- ✓ 1. After looking at this again and checking with Brian, please provide a new Owner/Operator and Licensed Professional Engineer/ Geologist Billing Certification Form. You don't need a new signature from the owner/operator. Just provide a new signature for the engineer (you).
Attached
2. Can you please walk me through how you arrived at \$21,805.33 for PDC lab on the handling form? Also, if your detail includes \$4,449.30, is proof of payment included somewhere for that? **Should only be \$17,500.58. I attached corrected Handling form. Also attached all lab invoices and checks highlighted.** Also, is proof of payment for \$460 for Crop Production included? **This is a Invoice /receipt we paid with credit card highlighted on invoice attached.**
not proof of payment?
3. I asked Brian about this, and we looked at the documentation. We can't figure out how you arrive at 5,244.91 cubic yards for backfill. Can you please walk me through it? **Sorry, I didn't included all ticket I have attached for your review. 5,175.67 cyds was removed and EPA allows removed * 1.05 = 5434.45 cyds (which was never budgeted for in original plan). On the total remediation and disposal budget we are still under budget by \$7,773.72. Instead of having to send in a budget amendment and another reimbursement please have Brian move the budget numbers around in this section to make it work on your end, he can subtract the extra disposal costs we didn't use and add to the backfill cost.**

If you have anything else let me know.

Quoting "Owens, Melissa" <Melissa.Owens@illinois.gov>:

Hi Matt,

Thanks for your response.

1. After looking at this again and checking with Brian, please provide a new Owner/Operator and Licensed Professional Engineer/ Geologist Billing Certification Form. You don't need a new signature from the owner/operator. Just provide a new signature for the engineer (you).

older

Handling Charges Form

Subcontract or Field Purchase Cost:

\$0 - \$5,000
 \$5,001 - \$15,000
 \$15,001 - \$50,000
 \$50,001 - \$100,000
 \$100,001 - \$1,000,000

Eligible Handling Charges as a Percentage of Cost:

12%
 \$600 + 10% of amt. over \$5,000
 \$1,600 + 8% of amt. over \$15,000
 \$4,400 + 5% of amt. over \$50,000
 \$6,900 + 2% of amt. over \$100,000

proof of payment provided

Subcontractor Name or Field Purchase	Type of Work Performed by Subcontractor	Subcontractor or Field Purchase Amount (\$)
<i>no cancelled check</i> (4,444.30) PDC lab 5042.54, 2,372.96, 2,076.34, 3,559.54	CA samples	21,805.33
Hickory Ridge Landfill	Contaminated soil disposal	131,979.67
Beaird Trucking 27,060 63,998	Trucking services	91,058.00
Central Stone Company	Backfill	38,609.06
Corp Production <i>proof of payment</i>	Backfill <i>pd w/ credit card</i>	460.00
<i>Central Stone</i> 14,984.56		
13,530.84		
588.52		
<i>29,103.92 proof of payment</i>		
<i>+ 9,505.14 proof of payment</i>		
<i>38,609.06</i>		
Total Subcontractor and Field Purchase Costs:		\$283,912.06

how did you get?

Total Handling Charges: \$10,578.24

2. Did you include the form for handling charges? I don't see it. ***I am sorry it looks like it was left out. I have included it for your review.***

3. Can you please provide invoices for the purchase of the backfill? ***They were hidden behind all the material tickets, I have copied them and the checks for your review.***

Quoting "Owens, Melissa" <Melissa.Owens@Illinois.gov>:

Hi Matt,

I'm working on the above referenced claim, and I have some questions.

1. The Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form and Payment Certification Form have signature dates prior to the last day listed in the billing period. If new forms aren't provided, we will need to cut costs incurred after June 19th.

2. Did you include the form for handling charges? I don't see it.

Matthew D. Rives, P.E.
Chase Environmental Group, Inc.
2701 E. Ash, Bldg. B
Springfield, IL 62704
P: 217-670-1916
F: 217-670-1682
M: 217-851-1404



www.chaseenv.com

PRIVILEGED & CONFIDENTIAL: The information transmitted (including attachments) is covered by the electronic Communications Privacy Act, 18 U.S.C. 2510-2521, is intended only for the person(s) or entity/entities to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient(s) is prohibited. If you received this in error, please contact the sender and delete the material from any computer. Copyright 2012, Chase Environmental Group, All rights reserved.

Matthew D. Rives, P.E.
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2701 E. Ash, Bldg. B
Springfield, IL 62704
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Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form

Under penalty of perjury as defined in Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2], I certify to the following:

- The bills in the attached application for payment are for performing corrective action activities associated with Incident # 951012 reported for the Leaking Underground Storage Tank site located at Address: 101 East Outer Belt Drive
City: Clayton State: IL Zip: 62324
- The bills are for the billing period _____, _____ through _____, _____ and were incurred in conformance with the Environmental Protection Act and 35 Ill. Adm. Code 731, 732, or 734.
- The attached application for payment and all documents submitted with it were prepared under the supervision of the licensed professional engineer or licensed professional geologist and the owner and/or operator whose signatures are set forth below and in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information provided. The information in the attached application for payment is, to the best of my knowledge and belief, true, accurate, and complete.
- The costs for remediating the above-listed incident are correct, are reasonable, and if applicable, were determined in accordance with Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734.
- I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Section 44 of the Environmental Protection Act [415 ILCS 5/44] and Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2].

Owner/Operator Name: Parker's Gas & More

Authorized Representative*: Ted Parker

Address: 2970 North 2050th Avenue Phone: _____

City: Clayton State: IL Zip: 62324

Signature: _____ Date: _____

Subscribed and sworn to before me the _____ day of _____, _____

(Notary Public) Seal:

L.P.E./L.P.G. Name: Matthew Rives

L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Illinois Registration No.: 062.069142

L.P.E./L.P.G. Registration Expiration Date: Nov 30, 2019

Company Name: Chase Environmental Group, Inc.

Address: 2701 East Ash

Phone: (217) 670-1976

City: Springfield State: IL

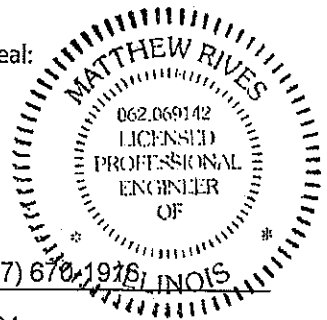
Zip: 62704

L.P.E./L.P.G. Signature: *[Signature]*

Date: 10/2/19

Subscribed and sworn to before me the _____ day of _____, _____

(Notary Public) Seal:



*For a corporation, a principal executive officer of at least the level of vice president, or a person authorized by a resolution of the board of directors to sign the applicable document if a copy of the resolution, certified as a true copy by the secretary of the corporation, is submitted with the document.

CROP PRODUCTION SERVICES
 MT STERLING IL (411)
 PO BOX 191
 MT. STERLING, IL 62353
 217-773-2012

Electronic Filing: Received, Clerk's Office 10/23/2020



INVOICE

Invoice #: 35890569
 Invoice Date: 05/11/18
 Due Date: Cash On Delivery
 Delivery Date: 05/11/18
 Order #: 11824791
 PO#:
 Sales Rep: FLESNER, Andrew

CASH SALES MT STERLING (1027524)
 DO NOT MAIL
 RT 24 WEST
 MT STERLING, IL 62353

Ship Via: Customer Vehicle County: BROWN

Product #	Product Description	Quantity	Gross Unit Price	Sales Tax	Gross Ext'd Price
1000184701	MISC. CHARGE	460.0000 EA	1.0000		460.00

Safety Data Sheets are available upon request for applicable products. Contact your local branch for details.
 No Recommendation has been made or provided by seller concerning the use of any pesticide covered by this invoice. For a medical emergency involving this product, call 1-866-944-8565. For help with any spill, leak, fire or exposure, call Chemtrec at 1-800-424-9300.

*** Invoice Notes ***

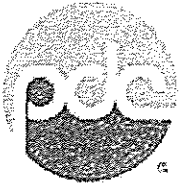
Scale use from Chase Invironmental Group
 PO F0908004P.F

Chase invironmental group (counter sale invoice)
 2701 E Ash Street Building B
 Springfield IL 62703
 6189795902
 Payment Method: Credit Card (MasterCard ****8160)

Delivered By	Date	Received By	Date
Additional Information	Payment Terms: IMMEDIATE	Invoice Sub Total:	460.00
		Sales Tax:	0.00
		Invoice Total:	460.00
		Less Prepay Used:	0.00
		Less Prepay Discount:	0.00
		Gross Invoice Total:	460.00
		Amount Due:	460.00

Remit To:

CROP PRODUCTION SERVICES, INC. 0228
 PO BOX 191
 MT. STERLING IL 62353



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number 18001695

Invoice Date: May 18, 2018

Due Date: June 18, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704

Project: F0908004 / Parkers Gas & More Clayton, IL

PO:
Received: 05/11/2018
Work Order(s): 18E0317

Attn: Matt Rives
Phone: (217) 670-1916

Table with 5 columns: Quantity, Analysis/Description, Matrix, Unit Cost, Extended Cost. Rows include ASTM D2974 % Solids, SW 8260B BETX+MTBE, and SW 8270C PNA.

Invoice Total: \$5,042.54

Handwritten notes: Depart: .032, Job# F0908004 P.F, Equip#, Account#, Cost Code#: 90, Approved By: MR, Date: 5/23/15, Pay 30



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
 PDC LABORATORIES - SPRINGFIELD, IL
 PO BOX 9071
 Peoria, IL 61612-9071
 217.753.1148

Invoice Number 18001696

Invoice Date: May 18, 2018
 Due Date: June 18, 2018

Invoice To: Chase Environmental
 2701 E Ash
 Springfield, IL 62704

Project: F0908004 / Parkers Gas & More Clayton,
 IL

Attn: Matt Rives
 Phone: (217) 670-1916

PO:
 Received: 05/11/2018
 Work Order(s): 18E0318

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
8	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
8	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$851.04
7	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
8	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,521.92

Invoice Total: \$2,372.96

Depart: 032
 Job# F0908004.P.F Parkers Gas & More
 Equip#: _____
 Account#: _____
 Cost Code#: 40
 Approved By: MR
 Date: 5/23/18
 Pay 36

JPMORGAN CHASE & CO.

Post date: 06/25/2018

Amount: \$ 13371.58

CHASE ENVIRONMENTAL GROUP, INC.
11450 WATERSIDE CT
LOUISVILLE, KENTUCKY 40274-2399
(502) 273-1455

DATE: 6/23/2018
AMOUNT: *****13,371.58*****

THE SUM OF THIRTEEN THOUSAND THREE HUNDRED SEVENTY ONE DOLLARS AND 58 CENTS

FOR THE ORDER OF:
FOC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
211-2200

93188
93188

⑈091188⑈ ⑈08300117⑈ 97909729⑈

FEDERAL RESERVE BOARD OF GOVERNORS REG. CC

The security features described below are used as follows:

Color Shift Intensity: Features of color-shifting ink that change color when viewed from different angles.

Chemical Energy Ink: Ink that changes color when exposed to heat or light.

Security Scan: A scan of the "Security Scan" window on the back of the note reveals a hidden pattern of numbers and letters.

Microprint: Small text that is difficult to reproduce with a photocopier.

Vertical Ribbon: A vertical strip of color that changes when viewed from different angles.

Windowed Ribbon: A windowed strip of color that changes when viewed from different angles.

Color Change: The color of the ink changes when viewed from different angles.

Color Change: The color of the ink changes when viewed from different angles.

Color Change: The color of the ink changes when viewed from different angles.

For Deposit Only -
Use with a deposit slip
Conifer Computer Inc
Peoria, IL
Deposited by:

Seq: 63
Dep: 005195
Date: 06/25/18

⑈091188⑈ ⑈08300117⑈ 97909729⑈

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE
⑈091188⑈ ⑈08300117⑈ 97909729⑈

Electronic Filing Received Clerk's Office 10/23/2020

Check Register
CHASE ENVIRONMENTAL GROUP, INC.
8/2/2018

Account: CHASE BANK - Chase Bank

Check R	Date	Period	Vendor Number and Name	Voucher	Invoice	Payable/ Payroll	Retention	Cash	Discount	Workers Comp.	State Tax
93188-R	6/20/2018	Jun, 2018	PDC LAB PDC Laboratories, Inc. Accounts Receivable PO Box 9071 Peoria, IL 61612-9071	15915	18001695	5,042.54	0.00	-5,042.54	0.00	0.00	0.00
				15916	18001696	2,372.95	0.00	-2,372.95	0.00	0.00	0.00
				16366	18002216	425.52	0.00	-425.52	0.00	0.00	0.00
				16367	18002207	4,998.66	0.00	-4,998.66	0.00	0.00	0.00
				16368	18002214	531.90	0.00	-531.90	0.00	0.00	0.00
						<u>13,371.58</u>	<u>0.00</u>	<u>-13,371.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
			Account CHASE BANK - Chase Bank			<u>13,371.58</u>	<u>0.00</u>	<u>-13,371.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
						<u>13,371.58</u>	<u>0.00</u>	<u>-13,371.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number 18001802

Invoice Date: May 23, 2018
Due Date: June 22, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704

Project: F0908004-Parkers / Clayton, IL

Attn: Matt Rives
Phone: (217) 670-1916

PO:
Received: 05/15/2018
Work Order(s): 18E0371

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
7	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
7	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$744.66
4	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
7	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,331.68

Invoice Total: \$2,076.34

Depart: 032
Job# F0908004P.F
Equip#: _____
Account#: 90
Cost Code#: _____
Approved By: KC
Date: 7/24/18

pay 30

JPMORGAN CHASE & CO.

Post date: 06/19/2018
Amount: \$ 2076.34

Account: 979089729
Check Number: 93128

CHASE
JPMorgan Chase Bank N.A.
www.Chase.com
2143433

93128

CHASE ENVIRONMENTAL GROUP, INC.
9140 WATKINSPIKE CT
LOUISVILLE, KENTUCKY 40299-2359
(502) 257-1455

DATE: 6/13/2018
AMOUNT: *****2,076.34*****

THE SUM OF TWO THOUSAND SEVENTY SIX DOLLARS AND 34 CENTS

PAY TO THE ORDER OF
PDC Laboratories, Inc.
Accounts Receivable
PO Box 5371
Peoria, IL 61617-5071

ATTESTED SIGNATURE

#093128# 1083000137# 979089729#

FOR DEPOSIT ONLY
FEDERAL RESERVE BOARD OF GOVERNMENTS
FEDERAL RESERVE NOTE

Serial Number: 93128

Amount: \$2,076.34

DATE: 6/13/2018

AMOUNT: *****2,076.34*****

THE SUM OF TWO THOUSAND SEVENTY SIX DOLLARS AND 34 CENTS

PAY TO THE ORDER OF
PDC Laboratories, Inc.
Accounts Receivable
PO Box 5371
Peoria, IL 61617-5071

ATTESTED SIGNATURE

#093128# 1083000137# 979089729#

Seq: 44
Dep: 005178
Date: 06/19/18

Seq 44 06/19/18 Dep: 005178 AS : Cust: 63150 User:

FOR DEPOSIT ONLY
FEDERAL RESERVE BOARD OF GOVERNMENTS
FEDERAL RESERVE NOTE

Serial Number: 93128

Amount: \$2,076.34

DATE: 6/13/2018

AMOUNT: *****2,076.34*****

THE SUM OF TWO THOUSAND SEVENTY SIX DOLLARS AND 34 CENTS

PAY TO THE ORDER OF
PDC Laboratories, Inc.
Accounts Receivable
PO Box 5371
Peoria, IL 61617-5071

ATTESTED SIGNATURE

#093128# 1083000137# 979089729#



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number 18001874

Invoice Date: May 29, 2018
Due Date: June 28, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704

Project: F0908004P.F Parkers; Clayton, IL

Attn: Matt Rives
Phone: (217) 670-1916

PO:
Received: 05/21/2018
Work Order(s): 18E0510

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
12	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
12	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,276.56
12	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
12	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,282.88

Invoice Total: \$3,559.44

Depart: 032
Job# F0908004P.F
Equip#: _____
Account#: _____
Cost Code#: 90
Approved By: MR
Date: 5/29/18
Pay 30

JPMORGAN CHASE & CO.

Post date: 07/05/2018

Amount: \$ 3559.44

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-02532

93249

DATE: 6/27/2018

AMOUNT: *****3559.44

THE SUM OF THREE THOUSAND FIVE HUNDRED FIFTY NINE DOLLARS AND 44 CENTS *****

PAY TO THE ORDER OF
PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

CHASE ENVIRONMENTAL GROUP, INC.
3140 WATKINSON CT
LOUISVILLE KENTUCKY 40299-2369
(502) 267-1455

93249

⑆031212⑆ 4083000137⑆ 97908972⑆

FOR DEPOSIT ONLY
DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE

Seq: 40
Dep: 085221
Date: 07/05/18

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE

⑆031212⑆ 4083000137⑆ 97908972⑆

For Deposit Only to
Fidelity Companies Inc
Fidelity Companies Inc
MasterCard

Deposited by:

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE

⑆031212⑆ 4083000137⑆ 97908972⑆



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
 PDC LABORATORIES - SPRINGFIELD, IL
 PO BOX 9071
 Peoria, IL 61612-9071
 217.753.1148

Invoice Number 18001884

Invoice Date: May 30, 2018
 Due Date: June 29, 2018

Invoice To: Chase Environmental
 2701 E Ash
 Springfield, IL 62704

Project: F0908004P.F Parkers: Clayton, IL

PO:
 Received: 05/21/2018
 Work Order(s): 18E0511

Attn: Matt Rives
 Phone: (217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
15	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
15	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,595.70
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
15	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,853.60

Invoice Total: \$4,449.30

Depart: 032
 Job# F0908004P.F
 Equip#: _____
 Account#: _____
 Cost Code#: 90
 Approved By: ML
 Date: 5/30/18
 Day 30

Electronic Filing: Received, Clerk's Office 10/23/2020

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

Check: 93517
Date: 8/8/2018
Vendor: PDC LAB

Invoice	P.O. Num.	Invoice Amt	Prior Balance	Retention	Discount	Amt. Paid
8001884		4,449.30	4,449.30	0.00	0.00	4,449.30
		<u>4,449.30</u>	<u>4,449.30</u>	<u>0.00</u>	<u>0.00</u>	<u>4,449.30</u>

CHASE ENVIRONMENTAL GROUP, INC.
11450 WATTERSON CT
LOUISVILLE, KENTUCKY 40299-2389
(502) 267-1455

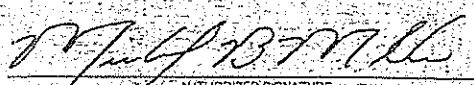
CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-13/330

93517

DATE: 8/8/2018 AMOUNT: *****4,449.30

THE SUM OF FOUR THOUSAND FOUR HUNDRED FORTY NINE DOLLARS AND 30 CENTS *****

PAY TO THE ORDER OF: PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071


AUTHORIZED SIGNATURE

Security features included. Details on back.

⑈093517⑈ ⑆083000137⑆ 979089729⑈

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

Check: 93517
Date: 8/8/2018
Vendor: PDC LAB

Invoice	P.O. Num.	Invoice Amt	Prior Balance	Retention	Discount	Amt. Paid
8001884		4,449.30	4,449.30	0.00	0.00	4,449.30
		<u>4,449.30</u>	<u>4,449.30</u>	<u>0.00</u>	<u>0.00</u>	<u>4,449.30</u>

Owens, Melissa

From: Matthew Rives <mrives@chaseenv.com>
Sent: Monday, October 01, 2018 11:56 AM
To: Owens, Melissa
Subject: [External] Re: Parker's Gas & More 951012 corrective action claim
Attachments: handling charge.pdf; backfill invoice.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Morning hope you had a good weekend

1. The Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form and Payment Certification Form have signature dates prior to the last day listed in the billing period. If new forms aren't provided, we will need to cut costs incurred after June 19th. ***I thought is how you stated it needed to be done. I can send you a copy of our email correspondence. We built and copied the reimbursement I certify take to owner to have him sign he is the last to date and sign, I believe this should be fine for reimbursement.***

2. Did you include the form for handling charges? I don't see it. ***I am sorry it looks like it was left out. I have included it for your review.***

3. Can you please provide invoices for the purchase of the backfill? ***They were hidden behind all the material tickets, I have copied them and the checks for your review.***

Quoting "Owens, Melissa" <Melissa.Owens@illinois.gov>:

Hi Matt,

I'm working on the above referenced claim, and I have some questions.

1. The Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form and Payment Certification Form have signature dates prior to the last day listed in the billing period. If new forms aren't provided, we will need to cut costs incurred after June 19th.

2. Did you include the form for handling charges? I don't see it.

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 804419

Invoice Date: 5/15/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 804419 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material		Freight		Tax		Fee		Total	
			Qty	Rate	Rate	Amount	%	Amount	Code	Amount		Spc Chg
3CL BY THE TON												
5/3/2018	210296	3CL	1	Load		2520.00		0.00	6.500	163.80	0.00	2683.80
5/4/2018	210297	3CL	1	Load		2520.00		0.00	6.500	163.80	0.00	2683.80
3" CLEAN COMM						5,040.00		0.00		327.60	0.00	5,367.60
5/7/2018	✓ 210298	3CL	1	Load		2520.00		0.00	6.500	163.80	0.00	2683.80
5/10/2018	✗ 210302	3CL	1	Load		1995.00		0.00	6.500	129.68	0.00	2124.68
5/8/2018	✗ 210303	3CL	1	Load		2520.00		0.00	6.500	163.80	0.00	2683.80
5/9/2018	✓ 210304	3CL	1	Load		1995.00		0.00	6.500	129.68	0.00	2124.68
3" CLEAN COMM						9,030.00		0.00		586.96	0.00	9,616.96
Invoice Totals			6 Loads			14,070.00		0.00		914.56	0.00	14,984.56

Depart: .032
 Job# F0908004P.F Parkers Gas B Mase
 Equip#: _____
 Account#: _____
 Cost Code#: ZO
 Approved By: MR
 Date: _____

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/14/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 5/25/2018	14,759.79
TOTAL AMOUNT DUE BY 6/14/2018	14,984.56

SEE OTHER TERMS ON REVERSE SIDE

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 806127

Invoice Date: 5/22/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 806127 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material		Freight		Tax		Fee		Spc Chg	Total
			Qty	Rate	Rate	Amount	%	Amount	Code	Amount		
ICL BY THE TON												
11/2018	✓ 210299	3CL	1	Load	2205.00	0.00	6.500	143.33	0.00			2348.33
3" CLEAN COMM					2,205.00	0.00		143.33	0.00			2,348.33
11/2018	✓ 210300	3CL	1	Load	3045.00	0.00	6.500	197.93	0.00			3242.93
11/2018	✓ 210301	3CL	1	Load	2520.00	0.00	6.500	163.80	0.00			2683.80
11/2018	✓ 210305	3CL	1	Load	2520.00	0.00	6.500	163.80	0.00			2683.80
11/2018	✓ 210306	3CL	1	Load	2415.00	0.00	6.500	156.98	0.00			2571.98
3" CLEAN COMM					10,500.00	0.00		682.51	0.00			11,182.51
Invoice Totals		5 Loads			12,705.00	0.00		825.84	0.00			13,530.84

Depart: 032
 Job# F0908004P.F
 Equip#: _____
 Account#: _____
 Cost Code#: 20
 Approved By: M
 Date: 5/29/18

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	13,327.88
TOTAL AMOUNT DUE BY 6/21/2018	13,530.84

SEE OTHER TERMS ON REVERSE SIDE

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 806126

Invoice Date: 5/22/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Florence Quarry CS33
26176 487 St.
Pittsfield IL 62363
Phone: 217-723-4410

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

ORDER #: CHASEE002
CLAYTON IL FILL JOB

Please include our Invoice # 806126 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material			Freight		Tax		Fee		Total
			Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	
CLAYTON IL FILL JOB												
1/18/2018	✓ 30464886	CM6SP	20.64	6.70	138.29		0.00	7.750	10.72		0.00	149.01
1/18/2018	✓ 30464887	CM6SP	20.82	6.70	139.49		0.00	7.750	10.81		0.00	150.30
1/18/2018	✓ 30464888	CM6SP	20.68	6.70	138.56		0.00	7.750	10.74		0.00	149.30
1/18/2018	✓ 30464889	CM6SP	19.38	6.70	129.85		0.00	7.750	10.06		0.00	139.91
079CM06 IL ST BASE			81.52		546.19		0.00		42.33		0.00	588.52
Invoice Totals			81.52		546.19		0.00		42.33		0.00	588.52

Depart: 032
Job# F0908004P.F
Equip#:
Account#:
Cost Code# 20
Approved By: MR
Date: 5/29/18

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	579.69
TOTAL AMOUNT DUE BY 6/21/2018	588.52 0242

SEE OTHER TERMS ON REVERSE SIDE

JPMORGAN CHASE & CO.

Post date: 06/11/2018

Amount: \$ 29103.92

CHASE ENVIRONMENTAL GROUP, INC. 11450 WATTERSON CT LOUISVILLE, KENTUCKY 40298-1190 (502) 267-1438		CHASE JPMorgan Chase Bank, N.A. www.chase.com 21-13352	93096
DATE 6/6/2018		AMOUNT *****29,103.92	33096
THE SUM OF TWENTY NINE THOUSAND ONE HUNDRED THREE DOLLARS AND 92 CENTS *****			
PAY TO THE ORDER OF Central Stone Company 1701 5th Street Holma, IL 61265-7900		<i>[Signature]</i> APPROVED SIGNATURE	

#93096# *0883000133 7# 974089729*

750170-90750011794

DO NOT WRITE ABOVE OR BELOW THIS LINE
* FEDERAL RESERVE BOARD OF GOVERNORS REG. CT *

NON DEPOSITABLE
CENTRAL STONE CO.

ENCLOSURE

Electronic Filing: Received, Clerk's Office 10/23/2020

Check Register
 CHASE ENVIRONMENTAL GROUP, INC.
 8/2/2018

Account: CHASE BANK - Chase Bank

Check R	Date	Period	Vendor Number and Name	Voucher	Invoice	Payable/ Payroll	Retention	Cash	Discount	Workers Comp.	State Tax
93096 R	6/6/2018	Jun, 2018	CENTSTON Central Stone Company 1701 5th Street Moline, IL 61265-7900	15918	804419	14,984.56	0.00	-14,984.56	0.00	0.00	0.00
				16004	806126	588.52	0.00	-588.52	0.00	0.00	0.00
				16005	806127	13,530.84	0.00	-13,530.84	0.00	0.00	0.00
						<u>29,103.92</u>	<u>0.00</u>	<u>-29,103.92</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
			Account CHASE BANK - Chase Bank			<u>29,103.92</u>	<u>0.00</u>	<u>-29,103.92</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
						<u>29,103.92</u>	<u>0.00</u>	<u>-29,103.92</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 807812

Invoice Date: 5/30/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 807812 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material	Qty	Rate	Amount	Freight	Rate	Amount	%	Tax	Amount	Fee	Code	Amount	Spc Chg	Total
3CL BY THE TON																	
5/18/2018	210307	3CL	Load	1		2100.00			0.00	6.500		136.50			0.00		2236.50
3" CLEAN COMM						2,100.00			0.00			136.50			0.00		2,236.50
5/22/2018	210308	3CL	Load	1		3255.00			0.00	6.500		211.58			0.00		3466.58
5/22/2018	210309	3CL	Load	1		315.00			0.00	6.500		20.48			0.00		335.48
5/21/2018	210320	3CL	Load	1		3255.00			0.00	6.500		211.58			0.00		3466.58
3" CLEAN COMM						6,825.00			0.00			443.64			0.00		7,268.64
Invoice Totals		4 Loads				8,925.00			0.00			580.14			0.00		9,505.14

Depart: 032
Job# FO908004P.F
Equip#: _____
Account#: _____
Cost Code#: 20
Approved By: MR
Date: 6/4/18

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/29/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/9/2018	9,362.56
TOTAL AMOUNT DUE BY 6/29/2018	9,505.14

SEE OTHER TERMS ON REVERSE SIDE

JPMORGAN CHASE & CO.

Post date: 07/02/2018
Amount: \$ 9505.14

Account: 979089729
Check Number: 93229

CHASE ENVIRONMENTAL GROUP, INC.
1140 WATTERSON CT
LOUISVILLE, KENTUCKY 40299-2307
(502) 257-1433

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-13300

83229

DATE: 6/27/2018 AMOUNT: *****9,505.14

THE SUM OF NINE THOUSAND FIVE HUNDRED FIVE DOLLARS AND 14 CENTS *****

FAY TO THE ORDER OF
Central Stone Company
1701 5th Street
Holme, IL 61265-7900

[Signature]

⑈093229⑈ ⑆083000137⑆ 979089729⑈

FOR DEPOSIT ONLY
CENTRAL STONE CO.

DO NOT WRITE STAMP OR SIGN BELOW THIS LINE

601101

⑆093229⑈ ⑆083000137⑆ 979089729⑈

⑆FEDERAL RESERVE BOARD OF DISCOUNTS WASH. DC

came with 10/23 email

DATE:

CUSTOMER: _____

PRODUCT: _____

ORDER: _____

VEHICLE: _____

NO./JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons		
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY _____

Florence Quarry CS33 Central Stone Company
26176 487 St. Pittsfield, IL 62353
ILDOT# 5149204

Ticket No: 210297
Plant: (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-4-11

CUSTOMER: *CH...*

PRODUCT: *...*

ORDER: _____

VEHICLE: _____

NO./JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons		
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26176 487 St. Pittsfield, IL 62353
ILDOT# 5149204

Ticket No: 210290
Plant: (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-7-11

CUSTOMER: *...*

PRODUCT: *...*

ORDER: _____

VEHICLE: _____

NO./JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons		
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY 1

1512 T

DATE: 10-23-20

CUSTOMER: Central Stone Company

PRODUCT: Crusher Run

ORDER: 10-23-20

VEHICLE: _____

LO/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons		
TARE				
NET				
			TAX:	
			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS23 Central Stone Company
26176 487 St. Pittsfield, IL 62583
FDOT# 5149204

Ticket No: 210302
Plant (217) 723-4410
Main Office (309) 757-8250

DATE: 10-23-20

CUSTOMER: Central Stone Company

PRODUCT: Crusher Run

ORDER: 10-23-20

VEHICLE: _____

LO/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		399 tons		
TARE				
NET				
			TAX:	
			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS23 Central Stone Company
26176 487 St. Pittsfield, IL 62583
FDOT# 5149204

Ticket No: 210302
Plant (217) 723-4410
Main Office (309) 757-8250

DATE: 10-23-20

CUSTOMER: Central Stone Company

PRODUCT: Crusher Run

ORDER: 10-23-20

VEHICLE: _____

LO/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		399 tons		
TARE				
NET				
			TAX:	
			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

1302T

DATE: 10/23/2020

CUSTOMER: _____

PRODUCT: Granite

ORDER: _____

VEHICLE: _____

LOAD/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS			609 ⁰⁰	
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY 1

Florence Quarry 0833 Central Stone Company
35175 157 St. Pittsfield, IL 62689
LIC# 5149204

Ticket No. 210290
Plant (217) 723-4410
Main Office (800) 757-8250

DATE: 10/23/2020

CUSTOMER: _____

PRODUCT: _____

ORDER: _____

VEHICLE: _____

LOAD/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		441 ⁰⁰		
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY 1

Florence Quarry 0833 Central Stone Company
35175 157 St. Pittsfield, IL 62689
LIC# 5149204

Ticket No. 210291
Plant (217) 723-4410
Main Office (800) 757-8250

DATE: 10/23/2020

CUSTOMER: _____

PRODUCT: _____

ORDER: _____

VEHICLE: _____

LOAD/JOB: _____

DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		584 ⁰⁰		
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____

CUSTOMER COPY 1

1554 T

DATE: _____

CUSTOMER: _____
ORDER: _____
VEHICLE: _____
O./JOB: _____
DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		483 Tons	5.00	
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry Co. Inc. Central Stone Company
26176 487 St. Pinfield, IL 62383
LD-OT# 2149204

Ticket No. 210207
Plant (217) 723-4410
Main Office (309) 757-8250

DATE: 5-18-18

CUSTOMER: Chase Chase Environmental
ORDER: _____
VEHICLE: _____
O./JOB: _____
DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		420 Tons	5.00	
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry Co. Inc. Central Stone Company
26176 487 St. Pinfield, IL 62383
LD-OT# 2149204

Ticket No. 210306
Plant (217) 723-4410
Main Office (309) 757-8250

DATE: 5-20-18

CUSTOMER: Chase Chase Environmental
ORDER: Chase cool
VEHICLE: _____
O./JOB: _____
DELIVERY INFORMATION: _____

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons	5.00 A ton	
TARE				TAX: _____
NET				FEES: _____
				TOTAL

DRIVER'S SIGNATURE _____ CUSTOMER COPY 0250

1907T

DATE: 10/23/2020

CUSTOMER: CHASE Equipment

PRODUCT: 3 POUNDS

ORDER: CHASE

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		651		
TARE			TAX:	
NET			FEES:	
			TOTAL	

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry, C-593 Central Stone Company
26175 487 St. Pittsfield, IL 62363
ILDOT# 6149204

Ticket No: 210309
Plant (217) 723-4410
Main Office (800) 757-9250

DATE: 10/23/2020

CUSTOMER: CHASE Equipment

PRODUCT: 3 POUNDS

ORDER: CHASE

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		651		
TARE			TAX:	
NET			FEES:	
			TOTAL	

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry, C-593 Central Stone Company
26175 487 St. Pittsfield, IL 62363
ILDOT# 6149204

Ticket No: 210309
Plant (217) 723-4410
Main Office (800) 757-9250

DATE: 10/23/2020

CUSTOMER: CHASE Equipment

PRODUCT: 3 POUNDS

ORDER: CHASE

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS				
TARE		63 TON	TAX:	
NET			FEES:	
			TOTAL	

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

0251

\$1365 T

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information: # 209

Gross: 72,600

Net: 40,000

Tare: 32,500

Product: DIRT

Contracted Delivery

Tons 20

Rate

Tractor Work:

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information:

Gross: 72,000

Net: ~~30~~ 41,500

Tare: 30,500 20.75 T
~~30,500~~

Product: DIRT

Contracted Delivery

Tons 20.75

Rate

Tractor Work: 116 WARD

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information:

Gross: 72,300

Net: 41,800

Tare: 30,500 20.90
ADDT

Product:

Contracted Delivery

Tons 20.90

Rate

Tractor Work: 116 WARD

Delivery Charge:
Total Amount Due:

0252 65 T

DIRT

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

Delivery Information: #209

Gross: 74,500

Net: 42,000

Tare: 32,500

Product: DIRT

Tons 21

Contracted Delivery

Rate

Tractor Work:

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

202

Delivery Information:

Gross: 75,000

Net: 44,000

Tare: 31,000

Product: Dirt

Tons 22

Contracted Delivery

Rate

Tractor Work:

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

202

Delivery Information:

Gross: 73,000

Net: 42,000

Tare: 31,000

Product: Dirt

Tons 21

Contracted Delivery

Rate

Tractor Work:

Delivery Charge:
Total Amount Due:

64 T.
0253

DIRT

Florence Quarry CS33
 26176 487th Street Pittsfield, Illinois 62363
 ILDOT# 5149204

Central Stone Company
Electronic Filing: Received Clerk's Office 10/23/2020

TICKET NO: 30464886
 Date: 5/18/2018
 Time Out: 07:12

ORIGINAL


Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
 P O BOX AB CENTRALIA, IL 62801
 (618) 533-6740
 Order: CHASEE002 CLAYTON IL FILL JOB
 P.O./Job:
 Today's Totals: 20.64 Tons (US) 1 Loads

Material: CM6SP		
Desc: 079CM06 IL ST BASE		
Billed Units: 20.64 Tons (US)		
	<u>Pounds</u>	<u>Tons (US)</u>
Gross	72560	36.28
Tare	31280	15.64
Net	41280	<u>20.64</u>

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN
 Vehicle: P882468 Driver: LUMLEY 116 GREG
 Delivery: Del/Pickup: PickUp

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33
 26176 487th Street Pittsfield, Illinois 62363
 ILDOT# 5149204

Central Stone Company
 Plant: (217) 723-4410
 Main Office: (309) 757-8250

TICKET NO: 30464887
 Date: 5/18/2018
 Time Out: 07:13

ORIGINAL


Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
 P O BOX AB CENTRALIA, IL 62801
 (618) 533-6740
 Order: CHASEE002 CLAYTON IL FILL JOB
 P.O./Job:
 Today's Totals: 41.46 Tons (US) 2 Loads

Material: CM6SP		
Desc: 079CM06 IL ST BASE		
Billed Units: 20.82 Tons (US)		
	<u>Pounds</u>	<u>Tons (US)</u>
Gross	74480	37.24
Tare	32840	16.42
Net	41640	<u>20.82</u>

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN
 Vehicle: P980940 Driver: LUMLEY #209
 Delivery: Del/Pickup: PickUp

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33
 26176 487th Street Pittsfield, Illinois 62363
 ILDOT# 5149204

Central Stone Company
 Plant: (217) 723-4410
 Main Office: (309) 757-8250

TICKET NO: 30464888
 Date: 5/18/2018
 Time Out: 07:16

ORIGINAL


Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
 P O BOX AB CENTRALIA, IL 62801
 (618) 533-6740
 Order: CHASEE002 CLAYTON IL FILL JOB
 P.O./Job:
 Today's Totals: 62.14 Tons (US) 3 Loads

Material: CM6SP		
Desc: 079CM06 IL ST BASE		
Billed Units: 20.68 Tons (US)		
	<u>Pounds</u>	<u>Tons (US)</u>
Gross	73440	36.72
Tare	32080	16.04
Net	41360	<u>20.68</u>

Rate: Carrier: LUMTRK LUMLEY TRUCKING
 Vehicle: P980941 Driver: LUMLEY TRUCKING
 Delivery: Del/Pickup: PickUp

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

\$ 62.14 0254

Florence Quarry CS33
26176 487th Street Pittsfield, Illinois 62363
ILDOT# 5149204

Central Stone Company
Electronic Filing: Received Clerk's Office 10/23/2020

Main Office: (309) 757-8250

TICKET NO: 30461809
Date: 5/18/2018

ORIGINAL



Time Out: 07:17

Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
P O BOX AB CENTRALIA, IL 62801
(618) 533-6740
Order: CHASEE002 CLAYTON IL FILL JOB
P.O./Job:
Today's Totals: 81.52 Tons (US) 4 Loads

Material: CM6SP
Desc: 079CM06 IL ST BASE
Billed Units: 19.38 Tons (US)
Pounds Tons (US)
Gross 72020 36.01
Tare 33260 16.63
Net 38760 19.38

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - GEN
Vehicle: P499087 Driver: LUMLEY 108
Delivery: Del/Pickup: PickUp

Rate Amount
Tax: 122 7.750
Fees:

Driver's signature: _____

Rec'd by: _____

customer copy 1

Date: 5-9-18

Load of: Wash Rock

Name: #15 Baird

Address: _____

On

Driver: Off _____

Weigher: _____

Remarks: _____

72800
33000
39800

19.9

239.99

379.28

$379.28 \div 1.5 = 252.85$

Date: 5-9-18

Load of: Wash Rock

Name: #8 Baird

Address: _____

On

Driver: Off _____

Weigher: _____

64640
31000
33640

16.63

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-9-18
Load of: #13
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

72,140
33,000
39,140
19.57

Date: 5-9-18
Load of: Wash Rock
Name: Beard #13
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

#13 8:55 am
72040
33000
39040

19.52

Date: 5-9-18
Load of: Wash Rock
Name: Beard #99
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

68260
31220
37040

18.52

Date: 5-9-18
Load of: Wash Rock
Name: Beard #8
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

71200
31000

40.20
20.1

Date: 5-9-18
Load of: WASH ROCK
Name: Beard #99
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

69160
31480
37680

18.84

Date: 5-9-18
Load of: Wash Rock
Name: # Beard
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

67880
31000
36880

18.44

Date: 5-9-18
Load of: #8
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

68880
31000
37880
18.94

Date: 5-9-18
Load of: Wash Rock
Name: #99
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

67360
31000
36360

18.13

\$ 152,025.6

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-9-18
Load of: Wash Rock
Name: # 99 Beard
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

68,000
31,220
36,780
18.42

Date: 5-9-18 #
Load of: Wash Rock
Name: Beard #13
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

74360
33,000
41,360
20.68
18.08

Date: 5-11-18
Load of: Wash
Name: Beard #13
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

79950
31000
48950
24.49
24.49

Date: 5-11-18
Load of: Wash
Name: Beard #21
Address: _____
 On
Driver: Off
Weigher: Johnson
Remarks: _____

68280
33000
35280
17.64
17.64

Date: 5-10-18
Load of: #8
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

73,800
31,000
42,800
21.4

Date: 5-10-18
Load of: #13
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

74200
33000
41200
20.6

Date: 5-10-18
Load of: #99
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

72540
31220
41320
20.66
18.04

Date: # 5-10-18
Load of: #8
Name: _____
Address: _____
 On
Driver: Off
Weigher: _____
Remarks: _____

85460
31000
54460
27.23

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-10-18
 Load of: #99
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

64,960
 31,220
 36,740

12.57

Date: 5-10-18
 Load of: #13
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

68,840
 33,000
 35,840

17.92

Date: 5-10-18
 Load of: _____
 Name: #99 75,180
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

31,220

36,960

12.11

Date: 5-10-18
 Load of: #8
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

64,840
 31,000

36,840

15.12

Date: 5-10-18
 Load of: _____
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

truck #13
 74,860
 33,000

41,860

Date: 5-10-18
 Load of: #13
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

78,880
 33,000

45,880

9

Date: 5-10-18
 Load of: #8
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

71,126
 31,000

40,126

20.06

Date: 5-10-18
 Load of: 99
 Name: _____
 Address: _____
 On
 Driver: Off _____
 Weigher: _____
 Remarks: _____

72,280
 33,000

39,280

18.12

\$100.26

$7,867.33 \div 1.5 = 5,244.89$

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 806127

Invoice Date: 5/22/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 806127 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material	Qty	Rate	Amount	Freight	Rate	Amount	Tax	%	Amount	Fee	Code	Amount	SpC Chg	Total	
3CL BY THE TON																		
5/11/2018	✓ 210299	3CL	441	1	Load	2205.00	0.00	6.500	143.33			143.33	0.00				2348.33	
3" CLEAN COMM						2,205.00	0.00		143.33			143.33	0.00				2,348.33	
5/14/2018	✗ 210300	3CL	009	1	Load	3045.00	0.00	6.500	197.93			197.93	0.00				3242.93	
5/15/2018	✓ 210301	3CL	5045	1	Load	2520.00	0.00	6.500	163.80			163.80	0.00				2683.80	
5/16/2018	✗ 210305	3CL	5045	1	Load	2520.00	0.00	6.500	163.80			163.80	0.00				2683.80	
5/17/2018	✗ 210306	3CL	453	1	Load	2415.00	0.00	6.500	156.98			156.98	0.00				2571.98	
3" CLEAN COMM						10,500.00	0.00		682.51			682.51	0.00				11,182.51	
Invoice Totals						5 Loads	\$ 12,705.00	0.00		825.84			825.84	0.00				13,530.84

14,070.00
12,705.00
26,775.00
÷ 2,000
13.39 tons

Depart: 032
Job# F0908004P.F
Equip#: _____
Account#: _____
Cost Code#: 20
Approved By: M
Date: 5/29/18

2541 ton ÷ 15 = 169.4 yd³

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	13,327.88
TOTAL AMOUNT DUE BY 6/21/2018	13,530.84

SEE OTHER TERMS ON REVERSE SIDE

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701 - 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 804419

Invoice Date: 5/15/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

5.00 / ton

Please include our Invoice # 804419 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material			Freight		Tax		Fee		Total
			Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	
3CL BY THE TON												
5/3/2018	210296	3CL	1		2520.00		0.00	6.500	163.80		0.00	2683.80
5/4/2018	210297	3CL	1		2520.00		0.00	6.500	163.80		0.00	2683.80
3" CLEAN COMM					5,040.00		0.00		327.60		0.00	5,367.60
5/7/2018	210298	3CL	1		2520.00		0.00	6.500	163.80		0.00	2683.80
5/10/2018	210302	3CL	1		1995.00		0.00	6.500	129.68		0.00	2124.68
5/8/2018	210303	3CL	1		2520.00		0.00	6.500	163.80		0.00	2683.80
5/9/2018	210304	3CL	1		1995.00		0.00	6.500	129.68		0.00	2124.68
3" CLEAN COMM					9,030.00		0.00		586.96		0.00	9,616.96
Invoice Totals			6	Loads	14,070.00		0.00		914.56		0.00	14,984.56

Depart: .032
 Job# F0908004P.F
 Equip#: _____
 Account#: _____
 Cost Code#: 20
 Approved By: MR
 Date: _____

Parkers Gas B Mose

2814-ton ÷ 15 = 1876

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/14/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 5/25/2018	14,759.79
TOTAL AMOUNT DUE BY 6/14/2018	14,984.56

SEE OTHER TERMS ON REVERSE SIDE

0260

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701- 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 807812
Invoice Date: 5/30/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Richfield Quarry CS35

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

Richfield IL 62312
Phone: 217-656-4387

ORDER #: CHASEE001

3CL BY THE TON

Please include our Invoice # 807812 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material			Freight		Tax		Fee		Total
			Qty	Rate	Amount	Rate	Amount	%	Amount	Code	Amount	
3CL BY THE TON												
5/18/2018	210307	3CL 620	1		2100.00		0.00	6.500	136.50		0.00	2236.50
		3" CLEAN COMM			2,100.00		0.00		136.50		0.00	2,236.50
5/22/2018	210308	3CL 651	1		3255.00		0.00	6.500	211.58		0.00	3466.58
5/22/2018	210309	3CL 63	1		315.00		0.00	6.500	20.48		0.00	335.48
5/21/2018	210320	3CL 651	1		3255.00		0.00	6.500	211.58		0.00	3466.58
		3" CLEAN COMM			6,825.00		0.00		443.64		0.00	7,268.64
Invoice Totals		4 Loads			8,925.00		0.00		580.14		0.00	9,505.14

Depart: 032
Job# FO908004P.F
Equip#: _____
Account#: _____
Cost Code#: 20
Approved By: MR
Date: 6/4/18

1785.50 tax ÷ 1.5% = 1190

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/29/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/9/2018	9,362.56
TOTAL AMOUNT DUE BY 6/29/2018	9,505.14

SEE OTHER TERMS ON REVERSE SIDE

0261

Electronic Filing: Received, Clerk's Office 10/23/2020

Central Stone Company
1701 - 5th Avenue
Moline IL 61265-7900

INVOICE

Page 1 of 1
INVOICE # 806126

Invoice Date: 5/22/2018
CUSTOMER ID: CHASEE
TERMS: 1.5%, 10, Net 30

PHONE: 800-906-2489 or 309-757-8250
FAX: 309-757-8257

PLANT SITE: Florence Quarry CS33
26176 487 St.
Pittsfield IL 62363
Phone: 217-723-4410

SOLD TO:

CHASE ENVIRONMENTAL GROUP INC (CS)
718 S POPLAR ST
P O BOX AB
CENTRALIA IL 62801

ORDER #: CHASEE002
CLAYTON IL FILL JOB

Please include our Invoice # 806126 and Customer ID (CHASEE) on the front of your check.

Date	Ticket #	Code	Material			Freight		Tax	Fee	Total	
			Qty	Rate	Amount	Rate	Amount	%	Amount		Code
CLAYTON IL FILL JOB											
5/18/2018	30464886	CM6SP	20.64	6.70	138.29	0.00	7.750	10.72		0.00	149.01
5/18/2018	30464887	CM6SP	20.82	6.70	139.49	0.00	7.750	10.81		0.00	150.30
5/18/2018	30464888	CM6SP	20.68	6.70	138.56	0.00	7.750	10.74		0.00	149.30
5/18/2018	30464889	CM6SP	19.38	6.70	129.85	0.00	7.750	10.06		0.00	139.91
079CM06 IL ST BASE			81.52		546.19	0.00		42.33		0.00	588.52
Invoice Totals			81.52		546.19	0.00		42.33		0.00	588.52

Depart: 032
Job# F0908004P.F
Equip#:
Account#:
Cost Code#: 20
Approved By: MK
Date: 5/29/18

- 54.38 YD³

Please request invoice changes or deductions BEFORE payment is made.

Total due must reach our office by 6/21/2018. A 1.5% service charge (18% per annum) will be charged on past due accounts.

DISCOUNTED AMOUNT EXPIRES 6/1/2018	579.69
TOTAL AMOUNT DUE BY 6/21/2018	588.52

SEE OTHER TERMS ON REVERSE SIDE

JPMORGAN CHASE & CO.

Post date: 06/11/2018

Amount: \$ 29103.92

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-13-900

93096

CHASE ENVIRONMENTAL GROUP, INC.
11450 WATKINSON CT
LOUISVILLE, KENTUCKY 40299-2389
(502) 267-1455

93096

DATE: 6/6/2016 AMOUNT: *****29,103.92*****

THE SUM OF TWENTY NINE THOUSAND ONE HUNDRED THREE DOLLARS AND 92 CENTS *****

PAY TO THE ORDER OF
Central Stone Company
1701 5th Street
Holine, IL 61265-7900

[Signature]

⑆093096⑆ ⑆0830001⑆ ⑆729⑆

ENCLOSURE HERE

FOR DEPOSIT ONLY
CENTRAL STONE CO.

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE
* RETURN TO ORIGINAL RECIPIENT *

750170 587750011784

The security features listed below, as well as those not listed, are used to protect your money.

Security Features:

- 1. Microprint: The words "FEDERAL RESERVE NOTE" are printed in tiny letters all over the note.
- 2. Color: The colors of the note are vibrant and clear.
- 3. Size: The note is the same size as all other Federal Reserve notes.
- 4. Feel: The note has a unique texture.
- 5. Smell: The note has a distinct smell.
- 6. Sound: The note has a unique sound when crumpled.
- 7. Sight: The note has a unique appearance when held up to the light.
- 8. Tactile: The note has a unique texture.
- 9. Taste: The note has a unique taste.
- 10. Smell: The note has a distinct smell.
- 11. Sound: The note has a unique sound when crumpled.
- 12. Sight: The note has a unique appearance when held up to the light.
- 13. Tactile: The note has a unique texture.
- 14. Taste: The note has a unique taste.

* FEDERAL RESERVE BOARD OF GOVERNORS REG. CO.

CHASE ENVIRONMENTAL GROUP, INC.
8/2/2018

Account: CHASE BANK - Chase Bank

Check R	Date	Period	Vendor Number and Name	Voucher	Invoice	Payable/ Payroll	Retention	Cash	Discount	Workers Comp.	State Tax
93096 R	6/6/2018	Jun, 2018	CENTSTON Central Stone Company 1701 5th Street Moline, IL 61265-7900	15918	804419	14,984.56	0.00	-14,984.56	0.00	0.00	0.00
				16004	806126	588.52	0.00	-588.52	0.00	0.00	0.00
				16005	806127	13,530.84	0.00	-13,530.84	0.00	0.00	0.00
						<u>29,103.92</u>	<u>0.00</u>	<u>-29,103.92</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
			Account CHASE BANK - Chase Bank			<u>29,103.92</u>	<u>0.00</u>	<u>-29,103.92</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
						29,103.92	0.00	-29,103.92	0.00	0.00	0.00

CROP PRODUCTION SERVICES, INC.
 MT STERLING IL (411)
 PO BOX 191
 MT. STERLING, IL 62353
 217-773-2012

Electronic Filing: Received, Clerk's Office 10/23/2020



INVOICE

Invoice #: 35890569
 Invoice Date: 05/11/18
 Due Date: Cash On Delivery
 Delivery Date: 05/11/18
 Order #: 11824791
 PO#:
 Sales Rep: FLESNER, Andrew

CASH SALES MT STERLING (1027524)
 DO NOT MAIL
 RT 24 WEST
 MT STERLING, IL 62353

Ship Via: Customer Vehicle County: BROWN

Product #	Product Description	Quantity	Gross Unit Price	Sales Tax	Gross Ext'd Price
1000184701	MISC. CHARGE	460.0000 EA	1.0000		460.00

Safety Data Sheets are available upon request for applicable products. Contact your local branch for details.
 No Recommendation has been made or provided by seller concerning the use of any pesticide covered by this invoice. For a medical emergency involving this product, call 1-866-944-8565. For help with any spill, leak, fire or exposure, call Chemtrec at 1-800-424-9300.

*** Invoice Notes ***

Scale use from Chase Invironmental Group
 PO F0908004P.F

Chase invironmental group (counter sale invoice)
 2701 E Ash Street Building B
 Springfield IL 62703
 6189795902
 Payment Method: Credit Card (MasterCard ****8160)

Delivered By _____ Date _____

Received By _____ Date _____

Additional Information

Payment Terms: IMMEDIATE

Invoice Sub Total: 460.00
 Sales Tax: 0.00
 Invoice Total: 460.00
 Less Prepay Used: 0.00
 Less Prepay Discount: 0.00
 Gross Invoice Total: 460.00
 Amount Due: 460.00

Remit To:

CROP PRODUCTION SERVICES, INC.
 PO BOX 191
 MT. STERLING, IL 62353

0266

QUEUE DATE TRACKING SHEET
LUST CLAIMS UNIT

LPC # 0010105006
INCIDENT # 951012 - 69508

QUEUE DATE 8/16/2018 120-DAY DATE 12/14/2018

SITE NAME: Parker's Gas & More Inc.

OWNER/ OPERATOR: PARKER, TED

CLASS CODE: CA PROGRAM: 734

AMOUNT REQUESTED: \$577,244.80

BILLING PERIOD FROM: 12/1/2017 TO: 6/30/2018

CONSULTANT: CHASE ENVIRONMENTAL GROUP, INC.

OPT-IN: 10/10/2008

- need new O/O... (6/19)
- need new payment cert form (6/29)

NFR:

26 hours after 6/19

SENT TO DIVISION FILE:

- handling form?

COMMENTS:

- invoice for purchase of backfill?
- grass seed approved? ^{per Brian} Book @ budget
w/ digging → cut grass seed
- exceeds man
- not in budget

First claim for this Incident Number? Yes No

Yearly breakdowns required? Yes No

- crop.. bill what were they weighing?
- need purchase invoice for tabbed tickets
- ask about 91,058 bill to O/O?



August 13, 2018

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking UST Section
P.O. Box 19276
Springfield, IL. 62794-9276

**RE: LPC# 0010105006—Adams County
Parker's Gas and More
101 East Outer Belt Drive
Clayton, IL
IEMA # 1995-1012**

To Whom It May Concern:

Enclosed please find one original and one copy of the Corrective Action Billing Package for the above-referenced site.

Should you have any questions or need additional information, please call us at 217-670-1916.

Sincerely,

Chase Environmental Group, Inc.

Matthew D. Rives, P.E.
Environmental Engineer

RECEIVED
AUG 16 2018
IEPA/BOL

RECEIVED
AUG 16 2018
IEPA-BOL
PERMIT SECTION

**CORRECTIVE ACTION BILLING APPLICATION
FOR
LPC #0010105006—Adams COUNTY
PARKER'S GAS AND MORE
101 EAST OUTER BELT DRIVE
LUST INCIDENT # 1995-1012**

CEG PROJECT #F0908004P.F

Prepared for:

Mr. Ted Parker
2970 North 2050th Ave
Clayton, IL 62324

Prepared By:

Chase Environmental Group, Inc.
2701 East Ash
Springfield, IL 62704

RECEIVED
AUG 16 2018
IEPA/BOL

August 2018

TABLE OF CONTENTS

- 1.0 PROOF OF OFSM DETERMINATION OF ELIGIBILITY
ACCESS THE FUND
- 2.0 WBE/MBE FORM
- 3.0 ACCOUNTING OF EARLY ACTION COSTS
- 4.0 OWNER/OPERATOR P.E. BILLING CERTIFICATION
- 5.0 PRIVATE INSURANCE AFFIDAVIT AND
QUESTIONAIRRE
- 6.0 PAYMENT CERTIFICATION FORM
- 7.0 W-9 FORM

RECEIVED

AUG 16 2018

IEPA/BOL
0270

1.0

**PROOF OF OSFM DETERMINATION OF ELIGIBILITY TO
ACCESS THE FUND**

RECEIVED

AUG 16 2018

IEPA/BOL

1805053 - NW



Office of the Illinois
State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7007 0220 0000 9712 3983

RECEIVED AMENDED

JUL 23 2007

July 18, 2007

BY: DL

Parker's Gas and More
P.O. Box 236
Clayton, IL 62324

In Re: Facility No. 5-013158
IEMA Incident No. 95-1012
Parker Gas-N-More, Inc.
101 E Outerbelt Dr., Hwy. 24
P.O. Box 236
Clayton, Adams Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on June 25, 2007 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

- Tank 3 4,000 gallon Gasoline
- Tank 4 4,000 gallon Gasoline
- Tank 5 4,000 gallon Diesel Fuel

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

RECEIVED

AUG 16 2018

EPA/BOL

0272

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 1 6,000 gallon Gasoline
Tank 2 6,000 gallon Gasoline
Tank 6 500 gallon Heating Oil

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

A handwritten signature in black ink that reads "Deanne Lock". The signature is written in a cursive style with a large, prominent "D" and "L".

Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

2.0

**WBE/MBE FORM
AND QUESTIONNAIRE**

Women and Minority Business Enterprises Form

The Illinois EPA is required to report State and Federal funds paid to Women Business Enterprises (WBE) and Minority Business Enterprises (MBE). Therefore, please provide the required information for all Prime Consultants/Contractors and Subcontractors used to perform the work for this billing:

Name of Leaking UST site: Parkers Gas & More Incident No.: 951012

The work for this billing was performed from 12-1-17 to 6-30-18

Prime Consultant: Chase Environmental Group, Inc.

FIRM'S NAME, ADDRESS, AND TELEPHONE NUMBER	IS THIS FIRM A WBE OR MBE?	IF WBE OR MBE, WHAT IS ITS STATE OF ILLINOIS VENDOR NUMBER?	AMOUNT PAID OR DUE THIS BILLING (\$)
Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62704 217-670-1916	NO		293,792.74
Hickory Ridge Landfill PO Box 9071 Peoria, IL 61612-9071	NO		131,979.67
PDC Laboratories, Inc. PO Box 9071 Peoria, IL 61612 217-753-1148	NO		21,805.33
Central Stone Company 1701 5th Avenue Moline IL 6185-7900	NO		38,609.06
Beaird Transport, Inc. 7132 E. Seed Corn Road Astoria, IL 61501	NO		91,058.00

BILLING TOTAL \$ 577,244.80

The Illinois EPA is authorized to request this information under the Environmental Protection Act, 415 ILCS 5/1 et seq. (formerly Ill. Rev. Stat. Ch 111-1/2, 1001 et seq.). Disclosure of this information is required. Failure to properly complete this form in its entirety may result in the delay or denial of any payment requested hereunder. This form has been approved by the Forms Management Center.

3.0

ACCOUNTING OF CORRECTIVE ACTION COSTS



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 0010105006 County: Aams

City: Clayton Site Name: Parker's Gas and More

Site Address: 101 East Outer Belt Drive

IEMA Incident No.: 951012

IEMA Notification Date: 5/12/1995

Date this form was prepared: Jul 31, 2018

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): Cap & Budget

Date(s): 02/20/2015

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2:
- Corrective Action Actual Costs

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

RECEIVED

AUG 16 2018

IEPA/BOL

Stage 3:

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Ted parker

Send in care of: Chase Environmental Group, Inc.

Address: 2701 East Ash

City: Springfield State: IL Zip: 62703

The payee is the: Owner Operator (Check one or both.)

Ted Parker
Signature of the owner or operator of the UST(s) (required)

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: _____ (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: _____

Incident Numbers assigned to the site due to releases from USTs: 951012

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	6,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	6,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Tank Leak
Gasoline	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Tank Leak
Diesel Fuel	4,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	951012	Tank Leak
Heating Oil	500	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows Undo Last Add

Billing Summary

	\$ Amount Approved in the Budget	\$ Amount Requested for Payment from the Fund
1. Drilling and Monitoring Well Costs Form	investigative	
2. Analytical Costs Form	analysis	18,006.06 ✓
3. Remediation and Disposal Costs Form	field purch	499,315.29 503,070.71
4. UST Removal and Abandonment Costs Form		
5. Paving, Demolition, and Well Abandonment Costs Form		.00
6. Consulting Personnel Costs Form	personnel	43,406.68 ✓
7. Consultant's Materials Costs Form	equip.	1,705.38 2,289.20
Total Amount Approved in the Budget *		NOT APPLICABLE
Subtotal of lines 1-7:	NOT APPLICABLE	562,433.41 \$566,752.65
8. Handling Charges Form	NOT APPLICABLE handling	10,492.15 ✓
TOTAL AMOUNT REQUESTED FOR PAYMENT	NOT APPLICABLE	572,925.56 \$577,244.80

*Date(s) this Budget(s) was approved: _____



Waste Management • Remediation • Drilling Services

INVOICE NO
27448

INVOICE DATE
6/19/2018

TERMS
Net 120
DUE DATE
10/17/2018

Ted Parker
2970 N. 2050th Avenue
Clayton, IL 62324

PROJECT NO.	CLIENT PO	CHASE WORK ORDER	PROJECT NAME	PROJ MGR
F0908004P			Parker Gas n More	MR

CEG person to contact for this project is Matthew Rives

For: CA Reimbursement

EPA#: 1995-1012

DESCRIPTION	UNIT	UNIT PRICE	TOTAL
Drilling and Monitoring Wells Costs Form	1	0.00	0.00
Analytical Costs Form	1	18,006.06	18,006.06
Remediation and Disposal Costs Form ETD 5175.67 yds @ \$69.25 - \$358,415.15 BF 5244.91 yds @ \$24.30 - \$127,451.31 Overburden - 2175 yds @ \$7.91 - \$17,204.25	1	503,070.71	503,070.71
UST Removal Costs Form Removal of 0 gal USTS \$0/UST	1	0.00	0.00
Consulting Personnel Costs Form (As broken down on the Consulting Personnel Costs Form)	1	43,406.68	43,406.68
Consultant's Material Costs Form (As broken down on the Consultant's Material Costs Form)	1	2,269.20	2,269.20
Handling Charges (As broken down on the Handling Charges Form)	1	10,492.15	10,492.15

TOTAL AMOUNT 577,244.80

Payment Policy - Invoices not remitted by prescribed due date will be assessed a 1.5% late fee per month until payment is received.

We gladly accept Mastercard & VISA

11450 Watterson Court • Louisville, KY 40299 • 502-267-1455
www.chaseenv.com

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260 17,8,7,12,15,	✓ 59	X	103.26	=	\$6,092.34 ✓
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270 17,8,7,12,15,	✓ 59	X	184.66	=	\$10,894.94 ✓
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
BTEX+MTBE, Solid by GC/MS		X		=	
8270 Semi-Volatile Organics, Solid by GC/MS SIMS		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil		X		=	
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	59	X	12.12	=	\$715.08 ✓
Sample Shipping per sampling event ¹	5	X	60.74	=	\$303.70 ✓

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 18,006.06



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number I8001695

Invoice Date: May 18, 2018
Due Date: June 18, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704
Attn: Matt Rives
Phone: (217) 670-1916

Project: F0908004 / Parkers Gas & More Clayton, IL
PO:
Received: 05/11/2018
Work Order(s): 18E0317

Table with 5 columns: Quantity, Analysis/Description, Matrix, Unit Cost, Extended Cost. Rows include ASTM D2974 % Solids, SW 8260B BETX+MTBE, and SW 8270C PNA.

Invoice Total: \$5,042.54

Handwritten notes: Depart: .032, Job# F0908004 P.F, Equip#, Account#, Cost Code#: 90, Approved By: MR, Date: 5/23/15, Pay 30



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
 PDC LABORATORIES - SPRINGFIELD, IL
 PO BOX 9071
 Peoria, IL 61612-9071
 217.753.1148

Invoice Number 18001696

Invoice Date: May 18, 2018
Due Date: June 18, 2018

Invoice To: Chase Environmental
 2701 E Ash
 Springfield, IL 62704

Project: F0908004 / Parkers Gas & More Clayton, IL

PO:
Received: 05/11/2018

Attn: Matt Rives
Phone: (217) 670-1916

Work Order(s): 18E0318

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
8	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
8	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$851.04
7	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
8	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,521.92

Invoice Total: \$2,372.96

Depart: 032
Job# F0908004P.F
Equip#: _____
Account#: _____
Cost Code#: 90
Approved By: MR
Date: 5/23/18

Parkers Gas & More

Pay 36

Electronic Filing: Received Clerk's Office 10/23/2020

Account: CHASE BANK - Chase Bank

Check R	Date	Period	Vendor Number and Name	Voucher	Invoice	Payable/ Payroll	Retention	Cash	Discount	Workers Comp.	State Tax
93188 R	6/20/2018	Jun, 2018	PDC LAB PDC Laboratories, Inc.	15915	18001695	5,042.54	0.00	-5,042.54	0.00	0.00	0.00
			Accounts Receivable	15916	18001696	2,372.96	0.00	-2,372.96	0.00	0.00	0.00
			PO Box 9071	16366	18002216	425.52	0.00	-425.52	0.00	0.00	0.00
			Peoria, IL 61612-9071	16367	18002207	4,998.66	0.00	-4,998.66	0.00	0.00	0.00
				16368	18002214	531.90	0.00	-531.90	0.00	0.00	0.00
						13,371.58	0.00	-13,371.58	0.00	0.00	0.00
						<u>13,371.58</u>	<u>0.00</u>	<u>-13,371.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
			Account CHASE BANK - Chase Bank			13,371.58	0.00	-13,371.58	0.00	0.00	0.00
						<u>13,371.58</u>	<u>0.00</u>	<u>-13,371.58</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
 PDC LABORATORIES - SPRINGFIELD, IL
 PO BOX 9071
 Peoria, IL 61612-9071
 217.753.1148

Invoice Number 18001802

Invoice Date: May 23, 2018
 Due Date: June 22, 2018

Invoice To: Chase Environmental
 2701 E Ash
 Springfield, IL 62704

Project: F0908004-Parkers / Clayton, IL

Attn: Matt Rives
 Phone: (217) 670-1916

PO:
 Received: 05/15/2018
 Work Order(s): 18E0371

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
7	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
7 ✓	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$744.66
4 ✓	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
7 ✓	SW 8270C PNA [5 day]	Solid	\$190.24	\$1,331.68

Invoice Total: \$2,076.34

Depart: c 032
 Job# F0908004P.F
 Equip#: _____
 Account#: 90
 Cost Code#: _____
 Approved By: MR
 Date: 7/24/18
 pay 30

Post date: 06/19/2018
Amount: \$ 2076.34

Account: 979089729
Check Number: 93128

CHASE ENVIRONMENTAL GROUP, INC.
11450 WATKERSON CT
LOUISVILLE, KENTUCKY 40299-2389
(502) 267-1455

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
2113450

93128

DATE: 6/13/2018 AMOUNT: *****2,076.34

THE SUM OF TWO THOUSAND SEVENTY SIX DOLLARS AND 34 CENTS *****

PAY TO THE ORDER OF: PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

⑆043128⑆ ⑆083000137⑆ 979089729⑆

Security Features: This security features Military Service, as well as features that detect counterfeit industry guidelines.

Security Features: Features of document authentication: 100% Cotton paper Watermark Microprint Color Shifting Ink Security Thread Clear Window Color Shifting Ink Security Thread Clear Window

Check Number: 93128

Amount: \$2,076.34

⑆ FEDERAL RESERVE BOARD OF GOVERNORS REG. CO

Seq: 44
Dep: 005178
Date: 06/19/18

Seq: 44 06/19/18 Dep: 005178 AG: 1 Cust: 53159 User:

For Deposit Only to: PDC LABORATORIES INC
PDC LABORATORIES INC
Candler Companies Inc
Address:
Deposited by:

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE
⑆ RESERVE BANKING INSTITUTION ⑆



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number 18001874

Invoice Date: May 29, 2018
Due Date: June 28, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704

Project: F0908004P.F Parkers: Clayton, IL

Attn: Matt Rives
Phone: (217) 670-1916

PO:
Received: 05/21/2018
Work Order(s): 18E0510

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
12	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
12	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,276.56
12	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
12	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,282.88

Invoice Total: \$3,559.44

Depart: 032
Job# F0908004P.F
Equip#:
Account#:
Cost Code#: 90
Approved By: MR
Date: 5/29/18
Pay 30



PDC Laboratories, Inc.

INVOICE

Remit To: Accounts Receivable
PDC LABORATORIES - SPRINGFIELD, IL
PO BOX 9071
Peoria, IL 61612-9071
217.753.1148

Invoice Number 18001884

Invoice Date: May 30, 2018
Due Date: June 29, 2018

Invoice To: Chase Environmental
2701 E Ash
Springfield, IL 62704

Project: F0908004P.F Parkers: Clayton, IL

PO:
Received: 05/21/2018
Work Order(s): 18E0511

Attn: Matt Rives
Phone: (217) 670-1916

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
15	ASTM D2974 % Solids [5 day]	Solid	\$0.00	\$0.00
15	SW 8260B BETX+MTBE [5 day]	Solid	\$106.38	\$1,595.70
8	SW 8260B BETX+MTBE [5 day]	Solid	\$0.00	\$0.00
15	SW 8270C PNA [5 day]	Solid	\$190.24	\$2,853.60

Invoice Total: \$4,449.30

Depart: .032
Job# F0908004 P.F
Equip#: _____
Account#: _____
Cost Code#: 90
Approved By: MC
Date: 5/30/18
Pay 30

PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

Check: 93517
Date: 8/8/2018
Vendor: PDC LAB

0293

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
8001884		4,449.30	4,449.30	0.00	0.00	4,449.30
		<u>4,449.30</u>	<u>4,449.30</u>	<u>0.00</u>	<u>0.00</u>	<u>4,449.30</u>

CHASE ENVIRONMENTAL GROUP, INC.
11450 WATTERSON CT
LOUISVILLE, KENTUCKY 40299-2389
(502) 267-1455

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-13/830

93517

93517

DATE: 8/8/2018 AMOUNT: *****4,449.30

THE SUM OF FOUR THOUSAND FOUR HUNDRED FORTY NINE DOLLARS AND 30 CENTS *****

PAY TO THE ORDER OF: PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

[Signature]
AUTHORIZED SIGNATURE

Security features included. Details on back.

⑈093517⑈ ⑈083000137⑈ 979089729⑈

CHASE ENVIRONMENTAL GROUP, INC

93517

PDC Laboratories, Inc.
Accounts Receivable
PO Box 9071
Peoria, IL 61612-9071

Check: 93517
Date: 8/8/2018
Vendor: PDC LAB

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
8001884		4,449.30	4,449.30	0.00	0.00	4,449.30
		<u>4,449.30</u>	<u>4,449.30</u>	<u>0.00</u>	<u>0.00</u>	<u>4,449.30</u>

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,175.67	69.25	\$358,415.15

OK

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
5,244.91	24.30	\$127,451.31

Overburden Removal and Return:

some backfill provided free of charge

123,695.89

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
2,175.00	7.91	\$17,204.25

B. Alternative Technology

Alternative Selected	520.195 TON		*	149.74
				42.58
				165.51
				162.37
Number				520.20
	3485.31			
Total No	270.11 (TAA 7.75%)			
Total Re	\$3755.42			
Total Co				

ETD
125,410.70
6,568.97

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)
		.00

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Disposal Costs		.00

Total Remediation and Disposal Costs:	\$503,070.71
--	-------------------------

499,315.29



HICKORY RIDGE LANDFILL
PO BOX 9071
PEORIA, IL 61612-9071

SERVICE ADDRESS
PARKER'S GAS AND MORE
101 E OUTER BELT DR
CLAYTON IL 62324

INVOICE

Electronic Filing: Received, Clerk's Office 10/23/2020

INVOICE #	3865807
ACCOUNT #	12-0000340
PO#	F0908004
DUE DATE	6/15/2018

DATE	DESCRIPTION	QTY	RATE	TOTAL
5/01/2018	NON SPCL WASTE TONS TKT# 0144690	17.30	17.000	294.10
5/01/2018	NON SPCL WASTE TONS TKT# 0144691	18.07	17.000	307.19
5/01/2018	NON SPCL WASTE TONS TKT# 0144692	19.59	17.000	333.03
5/01/2018	NON SPCL WASTE TONS TKT# 0144693	17.83	17.000	303.11
5/01/2018	NON SPCL WASTE TONS TKT# 0144694	18.86	17.000	320.62
5/01/2018	NON SPCL WASTE TONS TKT# 0144695	15.39	17.000	261.63
5/01/2018	NON SPCL WASTE TONS TKT# 0144696	18.22	17.000	309.74
5/01/2018	NON SPCL WASTE TONS TKT# 0144697	16.39	17.000	278.63
5/01/2018	NON SPCL WASTE TONS TKT# 0144703	18.56	17.000	315.52
5/01/2018	NON SPCL WASTE TONS TKT# 0144704	20.92	17.000	355.64
5/01/2018	NON SPCL WASTE TONS TKT# 0144706	17.14	17.000	291.38
5/01/2018	NON SPCL WASTE TONS TKT# 0144708	20.23	17.000	343.91
5/01/2018	NON SPCL WASTE TONS TKT# 0144711	17.64	17.000	299.88
5/01/2018	NON SPCL WASTE TONS TKT# 0144713	18.29	17.000	310.93
5/01/2018	NON SPCL WASTE TONS TKT# 0144714	19.13	17.000	325.21
5/01/2018	NON SPCL WASTE TONS TKT# 0144716	17.27	17.000	293.59
5/01/2018	NON SPCL WASTE TONS TKT# 0144724	19.24	17.000	327.08
5/01/2018	NON SPCL WASTE TONS TKT# 0144727	18.05	17.000	306.85
5/01/2018	NON SPCL WASTE TONS TKT# 0144729	16.73	17.000	284.41
5/01/2018	NON SPCL WASTE TONS TKT# 0144731	18.33	17.000	311.61
5/01/2018	NON SPCL WASTE TONS TKT# 0144732	17.02	17.000	289.34
5/01/2018	NON SPCL WASTE TONS TKT# 0144735	17.55	17.000	298.35
5/01/2018	NON SPCL WASTE TONS TKT# 0144737	18.24	17.000	310.08
5/01/2018	NON SPCL WASTE TONS TKT# 0144738	16.58	17.000	281.86
5/01/2018	NON SPCL WASTE TONS TKT# 0144752	19.92	17.000	338.64
5/01/2018	NON SPCL WASTE TONS TKT# 0144753	18.67	17.000	317.39
5/01/2018	NON SPCL WASTE TONS TKT# 0144754	17.94	17.000	304.98
5/01/2018	NON SPCL WASTE TONS TKT# 0144762	17.58	17.000	298.86
5/01/2018	NON SPCL WASTE TONS TKT# 0144763	16.98	17.000	288.66
5/01/2018	NON SPCL WASTE TONS TKT# 0144768	20.43	17.000	347.31
5/01/2018	NON SPCL WASTE TONS TKT# 0144773	19.40	17.000	329.80
5/01/2018	NON SPCL WASTE TONS TKT# 0144775	19.24	17.000	327.08
5/02/2018	NON SPCL WASTE TONS TKT# 0144783	17.21	17.000	292.57
5/02/2018	NON SPCL WASTE TONS TKT# 0144784	16.82	17.000	285.94
5/02/2018	NON SPCL WASTE TONS TKT# 0144785	17.98	17.000	305.66
5/02/2018	NON SPCL WASTE TONS TKT# 0144786	17.82	17.000	302.94
5/02/2018	NON SPCL WASTE TONS TKT# 0144789	17.76	17.000	301.92

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MESSAGES

Please call 309-688-0760 if you have any questions. You may pay on-line at www.pdcarea.com.

Your access code is 0561155.

To make changes to your account please call the number shown above or email us at customerservice@pdcarea.com.

Late accounts are subject to a monthly finance charge of 1.5% and service interruption.

$$125,410.70 \div 17 = 7,377.10$$

$$7,377.10 \div 1.5 = 4,918.07$$

If the Invoice Total differs from the Total Balance Due, please check your records or contact Customer Service with questions.

Invoice Total:	\$125,410.70
Total Balance Due:	-\$7,189.30

PLEASE FOLD ON PERFORATION BEFORE TEARING - RETURN BOTTOM PORTION WITH YOUR PAYMENT



HICKORY RIDGE LANDFILL
PO BOX 9071
PEORIA, IL 61612-9071

Account #	Due Date	Invoice Amount
12-0000340	6/15/2018	\$125,410.70

INVOICE DATE: 5/15/2018
INVOICE # 3865807

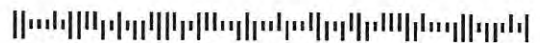
Show Amount Paid Here \$

Make checks payable to: PDC/AREA Companies

**SINGLE-PIECE 2 SGL 108417BA18-A-1
320 1 SP 0.470



CHASE ENVIRONMENTAL GROUP
MATT RIVES
2701 E ASH ST
SPRINGFIELD IL 62703-5832



PDC/AREA COMPANIES
32289 COLLECTION CENTER DR
CHICAGO IL 60693-0322

1200003407180515386580700125420700

CCBI07107ML86101 - 108417BA18.A.1.320.1.8.0.470 - delaprose.com



HICKORY RIDGE LANDFILL
 PO BOX 9071
 PEORIA, IL 61612-9071

Electronic Filing: Received, Clerk's Office
 (continued)

INVOICE #	3865807
ACCOUNT #	12-0000340
PO#	F0908004
DUE DATE	6/15/2018

SERVICE ADDRESS
 PARKER'S GAS AND MORE
 101 E OUTER BELT DR

DATE	DESCRIPTION	QTY	RATE	TOTAL
5/02/2018	NON SPCL WASTE TONS TKT# 0144793	22.88	17.000	388.96
5/02/2018	NON SPCL WASTE TONS TKT# 0144796	19.09	17.000	324.53
5/02/2018	NON SPCL WASTE TONS TKT# 0144798	17.39	17.000	295.63
5/02/2018	NON SPCL WASTE TONS TKT# 0144803	21.98	17.000	373.66
5/02/2018	NON SPCL WASTE TONS TKT# 0144804	21.60	17.000	367.20
5/02/2018	NON SPCL WASTE TONS TKT# 0144806	22.23	17.000	377.91
5/02/2018	NON SPCL WASTE TONS TKT# 0144808	18.66	17.000	317.22
5/02/2018	NON SPCL WASTE TONS TKT# 0144810	19.55	17.000	332.35
5/02/2018	NON SPCL WASTE TONS TKT# 0144812	20.30	17.000	345.10
5/02/2018	RATCLIFF 99 TKT# 0144812			
5/02/2018	NON SPCL WASTE TONS TKT# 0144815	18.65	17.000	317.05
5/02/2018	NON SPCL WASTE TONS TKT# 0144817	19.47	17.000	330.99
5/02/2018	NON SPCL WASTE TONS TKT# 0144820	21.03	17.000	357.51
5/02/2018	NON SPCL WASTE TONS TKT# 0144821	20.86	17.000	354.62
5/02/2018	NON SPCL WASTE TONS TKT# 0144824	20.19	17.000	343.23
5/02/2018	NON SPCL WASTE TONS TKT# 0144825	19.64	17.000	333.88
5/02/2018	NON SPCL WASTE TONS TKT# 0144826	17.93	17.000	304.81
5/02/2018	NON SPCL WASTE TONS TKT# 0144827	19.74	17.000	335.58
5/02/2018	NON SPCL WASTE TONS TKT# 0144828	19.30	17.000	328.10
5/02/2018	NON SPCL WASTE TONS TKT# 0144830	20.23	17.000	343.91
5/02/2018	NON SPCL WASTE TONS TKT# 0144846	20.06	17.000	341.02
5/02/2018	NON SPCL WASTE TONS TKT# 0144847	19.80	17.000	336.60
5/02/2018	NON SPCL WASTE TONS TKT# 0144850	18.75	17.000	318.75
5/02/2018	NON SPCL WASTE TONS TKT# 0144852	18.63	17.000	316.71
5/02/2018	NON SPCL WASTE TONS TKT# 0144853	20.00	17.000	340.00
5/02/2018	NON SPCL WASTE TONS TKT# 0144857	20.17	17.000	342.89
5/02/2018	NON SPCL WASTE TONS TKT# 0144858	19.74	17.000	335.58
5/02/2018	NON SPCL WASTE TONS TKT# 0144859	19.37	17.000	329.29
5/03/2018	NON SPCL WASTE TONS TKT# 0144871	20.19	17.000	343.23
5/03/2018	NON SPCL WASTE TONS TKT# 0144873	21.01	17.000	357.17
5/03/2018	NON SPCL WASTE TONS TKT# 0144874	20.91	17.000	355.47
5/03/2018	NON SPCL WASTE TONS TKT# 0144876	18.36	17.000	312.12
5/03/2018	NON SPCL WASTE TONS TKT# 0144885	20.59	17.000	350.03
5/03/2018	NON SPCL WASTE TONS TKT# 0144886	20.78	17.000	353.26
5/03/2018	NON SPCL WASTE TONS TKT# 0144888	19.16	17.000	325.72
5/03/2018	NON SPCL WASTE TONS TKT# 0144889	19.56	17.000	332.52
5/03/2018	NON SPCL WASTE TONS TKT# 0144896	18.28	17.000	310.76
5/03/2018	NON SPCL WASTE TONS TKT# 0144897	19.22	17.000	326.74
5/03/2018	NON SPCL WASTE TONS TKT# 0144898	19.23	17.000	326.91
5/03/2018	NON SPCL WASTE TONS TKT# 0144899	17.90	17.000	304.30
5/03/2018	NON SPCL WASTE TONS TKT# 0144903	17.99	17.000	305.83
5/03/2018	NON SPCL WASTE TONS TKT# 0144907	18.97	17.000	322.49
5/03/2018	NON SPCL WASTE TONS TKT# 0144908	17.70	17.000	300.90
5/03/2018	NON SPCL WASTE TONS TKT# 0144909	19.41	17.000	329.97
5/03/2018	NON SPCL WASTE TONS TKT# 0144917	18.98	17.000	322.66
5/03/2018	NON SPCL WASTE TONS TKT# 0144919	17.87	17.000	303.79
5/03/2018	NON SPCL WASTE TONS TKT# 0144920	19.40	17.000	329.80
5/03/2018	NON SPCL WASTE TONS TKT# 0144922	18.66	17.000	317.22
5/03/2018	NON SPCL WASTE TONS TKT# 0144943	20.25	17.000	344.25
5/03/2018	NON SPCL WASTE TONS TKT# 0144944	17.36	17.000	295.12
5/03/2018	NON SPCL WASTE TONS TKT# 0144945	18.68	17.000	317.56
5/03/2018	NON SPCL WASTE TONS TKT# 0144946	19.21	17.000	326.57
5/04/2018	NON SPCL WASTE TONS TKT# 0144960	19.65	17.000	334.05
5/04/2018	NON SPCL WASTE TONS TKT# 0144961	21.81	17.000	370.77
5/04/2018	NON SPCL WASTE TONS TKT# 0144964	21.42	17.000	364.14
5/04/2018	NON SPCL WASTE TONS TKT# 0144965	21.15	17.000	359.55
5/04/2018	NON SPCL WASTE TONS TKT# 0144970	20.85	17.000	354.45
5/04/2018	NON SPCL WASTE TONS TKT# 0144971	20.31	17.000	345.27
5/04/2018	NON SPCL WASTE TONS TKT# 0144973	19.31	17.000	328.27
5/04/2018	NON SPCL WASTE TONS TKT# 0144976	19.69	17.000	334.73
5/04/2018	NON SPCL WASTE TONS TKT# 0144979	20.81	17.000	353.77
5/04/2018	NON SPCL WASTE TONS TKT# 0144981	19.37	17.000	329.29
5/04/2018	NON SPCL WASTE TONS TKT# 0144983	21.34	17.000	362.78
5/04/2018	NON SPCL WASTE TONS TKT# 0144984	20.40	17.000	346.80

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HICKORY RIDGE LANDFILL
 PO BOX 9071
 PEORIA, IL 61612-9071

Electronic Filing: Received, Clerk's Office
 (continued)

INVOICE #	3865807
ACCOUNT #	12-0000340
PO#	F0908004
DUE DATE	6/15/2018

SERVICE ADDRESS
 PARKER'S GAS AND MORE
 101 E OUTER BELT DR

DATE	DESCRIPTION	QTY	RATE	TOTAL
5/08/2018	NON SPCL WASTE TONS TKT# 0145212	21.09	17.000	358.53
5/08/2018	NON SPCL WASTE TONS TKT# 0145221	17.43	17.000	296.31
5/08/2018	NON SPCL WASTE TONS TKT# 0145222	18.73	17.000	318.41
5/08/2018	NON SPCL WASTE TONS TKT# 0145226	19.57	17.000	332.69
5/08/2018	NON SPCL WASTE TONS TKT# 0145227	18.18	17.000	309.06
5/09/2018	NON SPCL WASTE TONS TKT# 0145239	17.75	17.000	301.75
5/09/2018	NON SPCL WASTE TONS TKT# 0145241	19.45	17.000	330.65
5/09/2018	NON SPCL WASTE TONS TKT# 0145243	17.86	17.000	303.62
5/09/2018	NON SPCL WASTE TONS TKT# 0145245	17.54	17.000	298.18
5/09/2018	NON SPCL WASTE TONS TKT# 0145247	20.27	17.000	344.59
5/09/2018	NON SPCL WASTE TONS TKT# 0145248	17.59	17.000	299.03
5/09/2018	NON SPCL WASTE TONS TKT# 0145250	19.24	17.000	327.08
5/09/2018	NON SPCL WASTE TONS TKT# 0145251	17.67	17.000	300.39
5/09/2018	NON SPCL WASTE TONS TKT# 0145260	20.02	17.000	340.34
5/09/2018	NON SPCL WASTE TONS TKT# 0145263	20.38	17.000	346.46
5/09/2018	NON SPCL WASTE TONS TKT# 0145264	20.05	17.000	340.85
5/09/2018	NON SPCL WASTE TONS TKT# 0145267	20.21	17.000	343.57
5/09/2018	NON SPCL WASTE TONS TKT# 0145269	21.37	17.000	363.29
5/09/2018	NON SPCL WASTE TONS TKT# 0145271	18.11	17.000	307.87
5/09/2018	NON SPCL WASTE TONS TKT# 0145272	21.41	17.000	363.97
5/09/2018	NON SPCL WASTE TONS TKT# 0145273	17.11	17.000	290.87
5/09/2018	NON SPCL WASTE TONS TKT# 0145283	14.44	17.000	245.48
5/09/2018	NON SPCL WASTE TONS TKT# 0145288	18.46	17.000	313.82
5/09/2018	NON SPCL WASTE TONS TKT# 0145291	18.33	17.000	311.61
5/09/2018	NON SPCL WASTE TONS TKT# 0145292	17.05	17.000	289.85
5/09/2018	NON SPCL WASTE TONS TKT# 0145294	17.84	17.000	303.28
5/09/2018	NON SPCL WASTE TONS TKT# 0145297	21.24	17.000	361.08
5/09/2018	NON SPCL WASTE TONS TKT# 0145300	16.60	17.000	282.20
5/09/2018	NON SPCL WASTE TONS TKT# 0145305	21.18	17.000	360.06
5/09/2018	NON SPCL WASTE TONS TKT# 0145312	20.28	17.000	344.76
5/09/2018	NON SPCL WASTE TONS TKT# 0145317	18.94	17.000	321.98
5/09/2018	NON SPCL WASTE TONS TKT# 0145318	18.45	17.000	313.65
5/09/2018	NON SPCL WASTE TONS TKT# 0145319	20.13	17.000	342.21
5/09/2018	NON SPCL WASTE TONS TKT# 0145322	19.66	17.000	334.22
5/09/2018	NON SPCL WASTE TONS TKT# 0145326	20.16	17.000	342.72
5/09/2018	NON SPCL WASTE TONS TKT# 0145328	18.51	17.000	314.67
5/09/2018	NON SPCL WASTE TONS TKT# 0145331	22.08	17.000	375.36
5/10/2018	NON SPCL WASTE TONS TKT# 0145337	20.89	17.000	355.13
5/10/2018	NON SPCL WASTE TONS TKT# 0145338	20.90	17.000	355.30
5/10/2018	NON SPCL WASTE TONS TKT# 0145340	20.94	17.000	355.98
5/10/2018	NON SPCL WASTE TONS TKT# 0145343	22.21	17.000	377.57
5/10/2018	NON SPCL WASTE TONS TKT# 0145347	22.72	17.000	386.24
5/10/2018	NON SPCL WASTE TONS TKT# 0145348	24.96	17.000	424.32
5/10/2018	NON SPCL WASTE TONS TKT# 0145349	20.10	17.000	341.70
5/10/2018	NON SPCL WASTE TONS TKT# 0145350	22.43	17.000	381.31
5/10/2018	NON SPCL WASTE TONS TKT# 0145359	20.77	17.000	353.09
5/10/2018	NON SPCL WASTE TONS TKT# 0145361	20.88	17.000	354.96
5/10/2018	NON SPCL WASTE TONS TKT# 0145363	19.03	17.000	323.51
5/10/2018	NON SPCL WASTE TONS TKT# 0145368	20.11	17.000	341.87
5/10/2018	NON SPCL WASTE TONS TKT# 0145371	20.12	17.000	342.04
5/10/2018	NON SPCL WASTE TONS TKT# 0145373	19.19	17.000	326.23
5/10/2018	NON SPCL WASTE TONS TKT# 0145374	19.81	17.000	336.77
5/10/2018	NON SPCL WASTE TONS TKT# 0145375	20.89	17.000	355.13
5/10/2018	NON SPCL WASTE TONS TKT# 0145381	17.98	17.000	305.66
5/10/2018	NON SPCL WASTE TONS TKT# 0145383	20.83	17.000	354.11
5/10/2018	NON SPCL WASTE TONS TKT# 0145386	20.13	17.000	342.21
5/10/2018	NON SPCL WASTE TONS TKT# 0145388	17.60	17.000	299.20
5/10/2018	NON SPCL WASTE TONS TKT# 0145394	19.78	17.000	336.26
5/10/2018	NON SPCL WASTE TONS TKT# 0145396	18.15	17.000	308.55
5/10/2018	NON SPCL WASTE TONS TKT# 0145401	20.91	17.000	355.47
5/10/2018	NON SPCL WASTE TONS TKT# 0145403	22.32	17.000	379.44
5/10/2018	NON SPCL WASTE TONS TKT# 0145414	17.42	17.000	296.14
5/10/2018	NON SPCL WASTE TONS TKT# 0145416	19.20	17.000	326.40
5/10/2018	NON SPCL WASTE TONS TKT# 0145421	19.90	17.000	338.30

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Electronic Filing: Received Clerk's Office 10/23/2020
 HICKORY RIDGE LANDFILL
 PO BOX 9071
 PEORIA, IL 61612-9071

(continued)

INVOICE #	3865807
ACCOUNT #	12-0000340
PO#	F0908004
DUE DATE	6/15/2018

SERVICE ADDRESS
 PARKER'S GAS AND MORE
 101 E OUTER BELT DR

DATE	DESCRIPTION	QTY	RATE	TOTAL
5/15/2018	NON SPCL WASTE TONS TKT# 0145702	20.83	17.000	354.11
5/15/2018	NON SPCL WASTE TONS TKT# 0145705	20.29	17.000	344.93
5/15/2018	NON SPCL WASTE TONS TKT# 0145706	19.47	17.000	330.99
5/15/2018	NON SPCL WASTE TONS TKT# 0145707	17.81	17.000	302.77
5/15/2018	NON SPCL WASTE TONS TKT# 0145717	17.89	17.000	304.13
5/15/2018	NON SPCL WASTE TONS TKT# 0145720	18.92	17.000	321.64
5/15/2018	NON SPCL WASTE TONS TKT# 0145722	20.20	17.000	343.40
5/15/2018	NON SPCL WASTE TONS TKT# 0145724	19.28	17.000	327.76
5/15/2018	NON SPCL WASTE TONS TKT# 0145730	19.06	17.000	324.02
5/15/2018	NON SPCL WASTE TONS TKT# 0145733	16.78	17.000	285.26
5/15/2018	NON SPCL WASTE TONS TKT# 0145734	20.17	17.000	342.89
5/15/2018	NON SPCL WASTE TONS TKT# 0145739	17.79	17.000	302.43
5/15/2018	NON SPCL WASTE TONS TKT# 0145754	18.88	17.000	320.96
5/15/2018	NON SPCL WASTE TONS TKT# 0145755	19.19	17.000	326.23
5/15/2018	NON SPCL WASTE TONS TKT# 0145756	19.74	17.000	335.58
5/15/2018	NON SPCL WASTE TONS TKT# 0145757	20.66	17.000	351.22
5/15/2018	NON SPCL WASTE TONS TKT# 0145763	21.16	17.000	359.72
5/15/2018	NON SPCL WASTE TONS TKT# 0145765	18.96	17.000	322.32
5/15/2018	NON SPCL WASTE TONS TKT# 0145774	18.18	17.000	309.06
5/15/2018	NON SPCL WASTE TONS TKT# 0145780	18.84	17.000	320.28
5/15/2018	NON SPCL WASTE TONS TKT# 0145799	19.97	17.000	339.49
5/15/2018	NON SPCL WASTE TONS TKT# 0145801	19.95	17.000	339.15
5/15/2018	NON SPCL WASTE TONS TKT# 0145804	18.25	17.000	310.25
5/15/2018	NON SPCL WASTE TONS TKT# 0145805	19.84	17.000	337.28
5/15/2018	NON SPCL WASTE TONS TKT# 0145807	18.87	17.000	320.79
5/15/2018	NON SPCL WASTE TONS TKT# 0145808	17.26	17.000	293.42
5/15/2018	NON SPCL WASTE TONS TKT# 0145813	19.72	17.000	335.24
5/16/2018	NON SPCL WASTE TONS TKT# 0145826	19.06	17.000	324.02
5/16/2018	NON SPCL WASTE TONS TKT# 0145829	19.68	17.000	334.56
5/16/2018	NON SPCL WASTE TONS TKT# 0145832	19.68	17.000	334.56
5/16/2018	NON SPCL WASTE TONS TKT# 0145834	20.48	17.000	348.16
5/16/2018	NON SPCL WASTE TONS TKT# 0145835	19.32	17.000	328.44
5/16/2018	NON SPCL WASTE TONS TKT# 0145837	21.39	17.000	363.63
5/16/2018	NON SPCL WASTE TONS TKT# 0145838	23.03	17.000	391.51
5/16/2018	NON SPCL WASTE TONS TKT# 0145839	19.77	17.000	336.09
5/16/2018	NON SPCL WASTE TONS TKT# 0145841	20.81	17.000	353.77
5/16/2018	NON SPCL WASTE TONS TKT# 0145853	22.31	17.000	379.27
5/16/2018	NON SPCL WASTE TONS TKT# 0145854	19.62	17.000	333.54
5/16/2018	NON SPCL WASTE TONS TKT# 0145857	21.65	17.000	368.05
5/16/2018	NON SPCL WASTE TONS TKT# 0145860	20.60	17.000	350.20
5/16/2018	NON SPCL WASTE TONS TKT# 0145862	21.20	17.000	360.40
5/16/2018	NON SPCL WASTE TONS TKT# 0145866	19.77	17.000	336.09
5/16/2018	NON SPCL WASTE TONS TKT# 0145869	21.75	17.000	369.75
5/16/2018	NON SPCL WASTE TONS TKT# 0145873	16.77	17.000	285.09
5/16/2018	NON SPCL WASTE TONS TKT# 0145875	19.61	17.000	333.37
5/16/2018	NON SPCL WASTE TONS TKT# 0145890	22.28	17.000	378.76
5/16/2018	NON SPCL WASTE TONS TKT# 0145894	18.81	17.000	319.77
5/16/2018	NON SPCL WASTE TONS TKT# 0145898	19.17	17.000	325.89
5/16/2018	NON SPCL WASTE TONS TKT# 0145899	19.45	17.000	330.65
5/16/2018	NON SPCL WASTE TONS TKT# 0145901	17.32	17.000	294.44
5/16/2018	NON SPCL WASTE TONS TKT# 0145910	18.67	17.000	317.39
5/16/2018	NON SPCL WASTE TONS TKT# 0145911	20.20	17.000	343.40
5/16/2018	NON SPCL WASTE TONS TKT# 0145913	18.60	17.000	316.20
5/16/2018	NON SPCL WASTE TONS TKT# 0145918	19.76	17.000	335.92
5/16/2018	NON SPCL WASTE TONS TKT# 0145943	22.03	17.000	374.51
5/16/2018	NON SPCL WASTE TONS TKT# 0145944	17.86	17.000	303.62
5/16/2018	NON SPCL WASTE TONS TKT# 0145947	19.01	17.000	323.17
5/16/2018	NON SPCL WASTE TONS TKT# 0145949	16.84	17.000	286.28
5/16/2018	NON SPCL WASTE TONS TKT# 0145950	18.22	17.000	309.74
5/16/2018	NON SPCL WASTE TONS TKT# 0145954	19.43	17.000	330.31
5/16/2018	NON SPCL WASTE TONS TKT# 0145957	20.25	17.000	344.25
5/16/2018	NON SPCL WASTE TONS TKT# 0145958	16.03	17.000	272.51
5/16/2018	NON SPCL WASTE TONS TKT# 0145959	19.25	17.000	327.25
5/17/2018	NON SPCL WASTE TONS TKT# 0145965	18.82	17.000	319.94

continued on next page.....



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HICKORY RIDGE LANDFILL
PO BOX 9071
PEORIA, IL 61612-9071

SERVICE ADDRESS
PARKER'S GAS AND MORE
101 E OUTER BELT DR
CLAYTON IL 62324

INVOICE DATE	5/31/2018
INVOICE #	3887553
ACCOUNT #	12-0000340
PO#	F0908004
DUE DATE	6/30/2018

DATE	DESCRIPTION	QTY	RATE	TOTAL
5/18/2018	NON SPCL WASTE TONS TKT# 0146092	19.46	17.000	330.82
5/18/2018	NON SPCL WASTE TONS TKT# 0146094	20.09	17.000	341.53
5/18/2018	NON SPCL WASTE TONS TKT# 0146099	19.86	17.000	337.62
5/18/2018	NON SPCL WASTE TONS TKT# 0146101	21.91	17.000	372.47
5/18/2018	NON SPCL WASTE TONS TKT# 0146112	20.59	17.000	350.03
5/18/2018	NON SPCL WASTE TONS TKT# 0146115	19.23	17.000	326.91
5/18/2018	NON SPCL WASTE TONS TKT# 0146121	18.50	17.000	314.50
5/18/2018	NON SPCL WASTE TONS TKT# 0146122	20.71	17.000	352.07
5/18/2018	NON SPCL WASTE TONS TKT# 0146124	18.47	17.000	313.99
5/18/2018	NON SPCL WASTE TONS TKT# 0146126	19.46	17.000	330.82
5/18/2018	NON SPCL WASTE TONS TKT# 0146127	20.34	17.000	345.78
5/18/2018	NON SPCL WASTE TONS TKT# 0146130	18.15	17.000	308.55
5/18/2018	NON SPCL WASTE TONS TKT# 0146142	17.79	17.000	302.43
5/18/2018	NON SPCL WASTE TONS TKT# 0146144	18.19	17.000	309.23
5/18/2018	NON SPCL WASTE TONS TKT# 0146157	20.48	17.000	348.16
5/18/2018	NON SPCL WASTE TONS TKT# 0146159	17.31	17.000	294.27
5/18/2018	NON SPCL WASTE TONS TKT# 0146164	17.85	17.000	303.45
5/18/2018	NON SPCL WASTE TONS TKT# 0146169	19.35	17.000	328.95
5/18/2018	NON SPCL WASTE TONS TKT# 0146174	18.73	17.000	318.41
5/18/2018	NON SPCL WASTE TONS TKT# 0146175	19.94	17.000	338.98
INVOICE TOTAL				\$6,568.97

Depart: 032

Job# _____

Equip# _____

Account# _____

Cost Code# _____

Approved By: _____

Date: _____

MESSAGES

Please call 309-688-0760 if you have any questions. You may pay on-line at www.pdcarea.com.

Your access code is 0561155.

To make changes to your account please call the number shown above or email us at customerservice@pdcarea.com.

Late accounts are subject to a monthly finance charge of 1.5% and service interruption.

$$6,568.97 \div 17 = 386.41$$

$$386.41 \times 1.5 = 579.61$$

$$386.41 - 579.61 = -193.20$$

$$4,918.07$$

$$257.61$$

$$5,175.68$$

If the Invoice Total differs from the Total Balance Due, please check your records or contact Customer Service with questions.

Invoice Total:	\$6,568.97
Total Balance Due:	-\$620.33

PLEASE FOLD ON PERFORATION BEFORE TEARING - RETURN BOTTOM PORTION WITH YOUR PAYMENT



HICKORY RIDGE LANDFILL
PO BOX 9071
PEORIA, IL 61612-9071

Account #	Due Date	Invoice Amount
12-0000340	6/30/2018	\$6,568.97

INVOICE DATE: 5/31/2018
INVOICE # 3887553

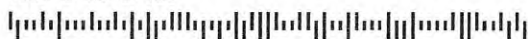
Show Amount Paid Here

\$

Make checks payable to: PDC/AREA Companies

PDC/AREA COMPANIES
32289 COLLECTION CENTER DR
CHICAGO IL 60693-0322

AUTOALL FOR AADC 625 45 AADC 108417BA05-A-1
9367 1 AB 0.405



CHASE ENVIRONMENTAL GROUP
MATT RIVES
2701 E ASH ST
SPRINGFIELD IL 62703-5832

1200003407180531388755300006568978 0300

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PDC/Area Companies -- Scale Ticket Summary for Period: 20180501 thru 20180521														
Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
Billing Information						Service Information								
12-340 CHASE ENVIRONMENTAL GROUP 2701 E ASH SPRINGFIELD IL 62704						12-340 PARKER'S GAS AND MORE 101 E OUTER BELT DR CLAYTON IL 62324								
12-340	05/01/2018	144691	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,140	18.07	TN	12-340	0		
12-340	05/01/2018	144693	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,660	17.83	TN	12-340	0		
12-340	05/01/2018	144692	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,180	19.59	TN	12-340	0		
12-340	05/01/2018	144690	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,600	17.30	TN	12-340	0		
12-340	05/01/2018	144694	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,720	18.86	TN	12-340	0		
12-340	05/01/2018	144695	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	30,780	15.39	TN	12-340	0		
12-340	05/01/2018	144696	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/01/2018	144697	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	32,780	16.39	TN	12-340	0		
12-340	05/01/2018	144703	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/01/2018	144704	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,840	20.92	TN	12-340	0		
12-340	05/01/2018	144706	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,280	17.14	TN	12-340	0		
12-340	05/01/2018	144708	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,460	20.23	TN	12-340	0		
12-340	05/01/2018	144711	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,280	17.64	TN	12-340	0		
12-340	05/01/2018	144713	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,580	18.29	TN	12-340	0		
12-340	05/01/2018	144714	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,260	19.13	TN	12-340	0		
12-340	05/01/2018	144716	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,540	17.27	TN	12-340	0		
12-340	05/01/2018	144724	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/01/2018	144727	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,100	18.05	TN	12-340	0		
12-340	05/01/2018	144729	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,460	16.73	TN	12-340	0		
12-340	05/01/2018	144731	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,660	18.33	TN	12-340	0		
12-340	05/01/2018	144732	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,040	17.02	TN	12-340	0		
12-340	05/01/2018	144735	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,100	17.55	TN	12-340	0		
12-340	05/01/2018	144737	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,480	18.24	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/01/2018	144738	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,160	16.58	TN	12-340	0		
12-340	05/01/2018	144752	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,840	19.92	TN	12-340	0		
12-340	05/01/2018	144753	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,340	18.67	TN	12-340	0		
12-340	05/01/2018	144754	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,880	17.94	TN	12-340	0		
12-340	05/01/2018	144763	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,960	16.98	TN	12-340	0		
12-340	05/01/2018	144762	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,160	17.58	TN	12-340	0		
12-340	05/01/2018	144768	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,860	20.43	TN	12-340	0		
12-340	05/01/2018	144773	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,800	19.40	TN	12-340	0		
12-340	05/01/2018	144775	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/02/2018	144783	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,420	17.21	TN	12-340	0		
12-340	05/02/2018	144784	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,640	16.82	TN	12-340	0		
12-340	05/02/2018	144785	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12-340	0		
12-340	05/02/2018	144786	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,640	17.82	TN	12-340	0		
12-340	05/02/2018	144789	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,520	17.76	TN	12-340	0		
12-340	05/02/2018	144793	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,760	22.88	TN	12-340	0		
12-340	05/02/2018	144796	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,180	19.09	TN	12-340	0		
12-340	05/02/2018	144798	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,780	17.39	TN	12-340	0		
12-340	05/02/2018	144803	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,960	21.98	TN	12-340	0		
12-340	05/02/2018	144804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,200	21.60	TN	12-340	0		
12-340	05/02/2018	144806	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,460	22.23	TN	12-340	0		
12-340	05/02/2018	144808	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,320	18.66	TN	12-340	0		
12-340	05/02/2018	144810	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,100	19.55	TN	12-340	0		
12-340	05/02/2018	144812	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,600	20.30	TN	12-340	0		RATCLIFF 99
12-340	05/02/2018	144815	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,300	18.65	TN	12-340	0		
12-340	05/02/2018	144817	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,940	19.47	TN	12-340	0		
12-340	05/02/2018	144820	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,060	21.03	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/02/2018	144821	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,720	20.86	TN	12-340	0		
12-340	05/02/2018	144824	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,380	20.19	TN	12-340	0		
12-340	05/02/2018	144825	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,280	19.64	TN	12-340	0		
12-340	05/02/2018	144826	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,860	17.93	TN	12-340	0		
12-340	05/02/2018	144827	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/02/2018	144828	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,600	19.30	TN	12-340	0		
12-340	05/02/2018	144830	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,460	20.23	TN	12-340	0		
12-340	05/02/2018	144846	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,120	20.06	TN	12-340	0		
12-340	05/02/2018	144847	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,600	19.80	TN	12-340	0		
12-340	05/02/2018	144850	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,500	18.75	TN	12-340	0		
12-340	05/02/2018	144852	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,260	18.63	TN	12-340	0		
12-340	05/02/2018	144853	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,000	20.00	TN	12-340	0		
12-340	05/02/2018	144857	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,340	20.17	TN	12-340	0		
12-340	05/02/2018	144858	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/02/2018	144859	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/03/2018	144871	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,380	20.19	TN	12-340	0		
12-340	05/03/2018	144873	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,020	21.01	TN	12-340	0		
12-340	05/03/2018	144874	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,820	20.91	TN	12-340	0		
12-340	05/03/2018	144876	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,720	18.36	TN	12-340	0		
12-340	05/03/2018	144885	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,180	20.59	TN	12-340	0		
12-340	05/03/2018	144886	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,560	20.78	TN	12-340	0		
12-340	05/03/2018	144888	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,320	19.16	TN	12-340	0		
12-340	05/03/2018	144889	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/03/2018	144896	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,560	18.28	TN	12-340	0		
12-340	05/03/2018	144897	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,440	19.22	TN	12-340	0		
12-340	05/03/2018	144898	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,460	19.23	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/03/2018	144899	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,800	17.90	TN	12-340	0		
12-340	05/03/2018	144903	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,980	17.99	TN	12-340	0		
12-340	05/03/2018	144907	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,940	18.97	TN	12-340	0		
12-340	05/03/2018	144908	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,400	17.70	TN	12-340	0		
12-340	05/03/2018	144909	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,820	19.41	TN	12-340	0		
12-340	05/03/2018	144917	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,960	18.98	TN	12-340	0		
12-340	05/03/2018	144919	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,740	17.87	TN	12-340	0		
12-340	05/03/2018	144920	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,800	19.40	TN	12-340	0		
12-340	05/03/2018	144922	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,320	18.66	TN	12-340	0		
12-340	05/03/2018	144943	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,500	20.25	TN	12-340	0		
12-340	05/03/2018	144944	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,720	17.36	TN	12-340	0		
12-340	05/03/2018	144945	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,360	18.68	TN	12-340	0		
12-340	05/03/2018	144946	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,420	19.21	TN	12-340	0		
12-340	05/04/2018	144960	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,300	19.65	TN	12-340	0		
12-340	05/04/2018	144961	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,620	21.81	TN	12-340	0		
12-340	05/04/2018	144964	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,840	21.42	TN	12-340	0		
12-340	05/04/2018	144965	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,300	21.15	TN	12-340	0		
12-340	05/04/2018	144970	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,700	20.85	TN	12-340	0		
12-340	05/04/2018	144971	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,620	20.31	TN	12-340	0		
12-340	05/04/2018	144973	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,620	19.31	TN	12-340	0		
12-340	05/04/2018	144976	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,380	19.69	TN	12-340	0		
12-340	05/04/2018	144979	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,620	20.81	TN	12-340	0		
12-340	05/04/2018	144981	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/04/2018	144983	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,680	21.34	TN	12-340	0		
12-340	05/04/2018	144984	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,800	20.40	TN	12-340	0		
12-340	05/04/2018	144989	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,860	19.43	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/04/2018	144990	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,160	17.08	TN	12-340	0		
12-340	05/04/2018	144997	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,180	18.09	TN	12-340	0		
12-340	05/04/2018	145000	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,020	20.51	TN	12-340	0		
12-340	05/04/2018	145002	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/04/2018	145006	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,300	21.15	TN	12-340	0		
12-340	05/04/2018	145020	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,880	20.44	TN	12-340	0		
12-340	05/04/2018	145022	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,460	21.23	TN	12-340	0		
12-340	05/04/2018	145024	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,180	19.59	TN	12-340	0		
12-340	05/04/2018	145025	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/04/2018	145029	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,920	19.96	TN	12-340	0		
12-340	05/04/2018	145031	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,580	19.29	TN	12-340	0		
12-340	05/04/2018	145033	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,020	21.51	TN	12-340	0		
12-340	05/07/2018	145051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/07/2018	145055	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,360	22.18	TN	12-340	0		
12-340	05/07/2018	145056	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,680	20.84	TN	12-340	0		
12-340	05/07/2018	145060	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,440	21.22	TN	12-340	0		
12-340	05/07/2018	145061	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,660	22.83	TN	12-340	0		
12-340	05/07/2018	145062	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,080	22.54	TN	12-340	0		
12-340	05/07/2018	145064	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,820	21.91	TN	12-340	0		
12-340	05/07/2018	145066	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,760	19.88	TN	12-340	0		
12-340	05/07/2018	145070	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,360	20.68	TN	12-340	0		
12-340	05/07/2018	145071	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/07/2018	145072	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145075	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145079	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,420	19.71	TN	12-340	0		
12-340	05/07/2018	145080	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,140	18.57	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/07/2018	145082	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,820	18.41	TN	12-340	0		
12-340	05/07/2018	145084	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,360	17.68	TN	12-340	0		
12-340	05/07/2018	145092	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,700	17.85	TN	12-340	0		
12-340	05/07/2018	145093	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/07/2018	145094	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,860	16.93	TN	12-340	0		
12-340	05/07/2018	145098	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,160	20.08	TN	12-340	0		
12-340	05/07/2018	145109	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,780	21.39	TN	12-340	0		
12-340	05/07/2018	145112	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,900	18.95	TN	12-340	0		
12-340	05/07/2018	145116	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20.99	TN	12-340	0		
12-340	05/07/2018	145117	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,260	17.13	TN	12-340	0		
12-340	05/07/2018	145123	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,820	18.91	TN	12-340	0		
12-340	05/07/2018	145127	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145128	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,740	18.87	TN	12-340	0		
12-340	05/07/2018	145132	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,300	19.65	TN	12-340	0		
12-340	05/08/2018	145143	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,660	20.33	TN	12-340	0		
12-340	05/08/2018	145145	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/08/2018	145147	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,700	19.85	TN	12-340	0		
12-340	05/08/2018	145150	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,120	20.06	TN	12-340	0		
12-340	05/08/2018	145157	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		
12-340	05/08/2018	145158	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20.99	TN	12-340	0		
12-340	05/08/2018	145160	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,140	20.07	TN	12-340	0		
12-340	05/08/2018	145162	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/08/2018	145164	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/08/2018	145167	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,680	18.84	TN	12-340	0		
12-340	05/08/2018	145168	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,040	20.52	TN	12-340	0		
12-340	05/08/2018	145169	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,920	20.96	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/08/2018	145176	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	50,160	25.08	TN	12-340	0		
12-340	05/08/2018	145177	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,460	22.23	TN	12-340	0		
12-340	05/08/2018	145179	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,820	23.91	TN	12-340	0		
12-340	05/08/2018	145182	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/08/2018	145187	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,780	22.89	TN	12-340	0		
12-340	05/08/2018	145188	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,180	20.09	TN	12-340	0		
12-340	05/08/2018	145190	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,760	20.38	TN	12-340	0		
12-340	05/08/2018	145193	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,200	18.10	TN	12-340	0		
12-340	05/08/2018	145201	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,280	17.64	TN	12-340	0		
12-340	05/08/2018	145204	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,400	20.70	TN	12-340	0		
12-340	05/08/2018	145209	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,140	19.07	TN	12-340	0		
12-340	05/08/2018	145212	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,180	21.09	TN	12-340	0		
12-340	05/08/2018	145221	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,860	17.43	TN	12-340	0		
12-340	05/08/2018	145222	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,460	18.73	TN	12-340	0		
12-340	05/08/2018	145226	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,140	19.57	TN	12-340	0		
12-340	05/08/2018	145227	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,360	18.18	TN	12-340	0		
12-340	05/09/2018	145239	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,500	17.75	TN	12-340	0		
12-340	05/09/2018	145241	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,900	19.45	TN	12-340	0		
12-340	05/09/2018	145243	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,720	17.86	TN	12-340	0		
12-340	05/09/2018	145245	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,080	17.54	TN	12-340	0		
12-340	05/09/2018	145247	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,540	20.27	TN	12-340	0		
12-340	05/09/2018	145248	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,180	17.59	TN	12-340	0		
12-340	05/09/2018	145250	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/09/2018	145251	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,340	17.67	TN	12-340	0		
12-340	05/09/2018	145260	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,040	20.02	TN	12-340	0		
12-340	05/09/2018	145263	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,760	20.38	TN	12-340	0		

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12-340	05/09/2018	145264	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,100	20.05	TN	12-340	0		
12-340	05/09/2018	145267	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,420	20.21	TN	12-340	0		
12-340	05/09/2018	145269	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,740	21.37	TN	12-340	0		
12-340	05/09/2018	145271	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,220	18.11	TN	12-340	0		
12-340	05/09/2018	145272	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,820	21.41	TN	12-340	0		
12-340	05/09/2018	145273	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,220	17.11	TN	12-340	0		
12-340	05/09/2018	145283	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	28,880	14.44	TN	12-340	0		
12-340	05/09/2018	145288	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,920	18.46	TN	12-340	0		
12-340	05/09/2018	145291	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,660	18.33	TN	12-340	0		
12-340	05/09/2018	145292	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,100	17.05	TN	12-340	0		
12-340	05/09/2018	145294	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,680	17.84	TN	12-340	0		
12-340	05/09/2018	145297	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,480	21.24	TN	12-340	0		
12-340	05/09/2018	145300	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,200	16.60	TN	12-340	0		
12-340	05/09/2018	145305	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/09/2018	145312	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,560	20.28	TN	12-340	0		
12-340	05/09/2018	145318	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/09/2018	145319	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12-340	0		
12-340	05/09/2018	145317	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,880	18.94	TN	12-340	0		
12-340	05/09/2018	145322	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,320	19.66	TN	12-340	0		
12-340	05/09/2018	145326	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,320	20.16	TN	12-340	0		
12-340	05/09/2018	145328	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,020	18.51	TN	12-340	0		
12-340	05/09/2018	145331	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,160	22.08	TN	12-340	0		
12-340	05/10/2018	145338	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/10/2018	145340	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,880	20.94	TN	12-340	0		
12-340	05/10/2018	145337	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,780	20.89	TN	12-340	0		
12-340	05/10/2018	145343	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,420	22.21	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145347	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,440	22.72	TN	12-340	0		
12-340	05/10/2018	145348	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	49,920	24.96	TN	12-340	0		
12-340	05/10/2018	145349	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,200	20.10	TN	12-340	0		
12-340	05/10/2018	145350	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,860	22.43	TN	12-340	0		
12-340	05/10/2018	145359	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,540	20.77	TN	12-340	0		
12-340	05/10/2018	145361	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,760	20.88	TN	12-340	0		
12-340	05/10/2018	145363	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,060	19.03	TN	12-340	0		
12-340	05/10/2018	145368	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,220	20.11	TN	12-340	0		
12-340	05/10/2018	145371	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,240	20.12	TN	12-340	0		
12-340	05/10/2018	145373	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,380	19.19	TN	12-340	0		
12-340	05/10/2018	145374	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,620	19.81	TN	12-340	0		
12-340	05/10/2018	145375	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,780	20.89	TN	12-340	0		
12-340	05/10/2018	145381	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12-340	0		
12-340	05/10/2018	145383	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/10/2018	145386	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12-340	0		
12-340	05/10/2018	145388	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,200	17.60	TN	12-340	0		
12-340	05/10/2018	145394	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,560	19.78	TN	12-340	0		
12-340	05/10/2018	145396	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,300	18.15	TN	12-340	0		
12-340	05/10/2018	145401	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,820	20.91	TN	12-340	0		
12-340	05/10/2018	145403	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,640	22.32	TN	12-340	0		
12-340	05/10/2018	145414	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,840	17.42	TN	12-340	0		
12-340	05/10/2018	145416	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,400	19.20	TN	12-340	0		
12-340	05/10/2018	145421	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/10/2018	145422	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,200	20.60	TN	12-340	0		
12-340	05/10/2018	145424	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,820	18.41	TN	12-340	0		
12-340	05/10/2018	145427	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,300	17.15	TN	12-340	0		

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12-340	05/10/2018	145428	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,960	18.48	TN	12-340	0		
12-340	05/11/2018	145439	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,940	22.47	TN	12-340	0		
12-340	05/11/2018	145440	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,180	23.59	TN	12-340	0		
12-340	05/11/2018	145442	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,840	23.92	TN	12-340	0		
12-340	05/11/2018	145444	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	48,940	24.47	TN	12-340	0		
12-340	05/11/2018	145446	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,620	20.31	TN	12-340	0		
12-340	05/11/2018	145447	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/11/2018	145449	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,460	21.23	TN	12-340	0		
12-340	05/11/2018	145451	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,060	22.03	TN	12-340	0		
12-340	05/11/2018	145455	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,720	18.86	TN	12-340	0		
12-340	05/11/2018	145457	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,160	19.08	TN	12-340	0		
12-340	05/11/2018	145458	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,380	19.69	TN	12-340	0		
12-340	05/11/2018	145464	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,840	20.92	TN	12-340	0		
12-340	05/11/2018	145466	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,240	19.12	TN	12-340	0		
12-340	05/11/2018	145469	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,000	21.00	TN	12-340	0		
12-340	05/11/2018	145470	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,520	19.76	TN	12-340	0		
12-340	05/11/2018	145478	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/11/2018	145480	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,360	17.68	TN	12-340	0		
12-340	05/11/2018	145481	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,200	17.10	TN	12-340	0		
12-340	05/11/2018	145492	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,740	19.87	TN	12-340	0		
12-340	05/11/2018	145493	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/11/2018	145501	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/11/2018	145499	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,720	17.36	TN	12-340	0		
12-340	05/14/2018	145525	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,280	18.64	TN	12-340	0		
12-340	05/14/2018	145528	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/14/2018	145536	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,140	18.57	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/14/2018	145542	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/14/2018	145549	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,920	21.46	TN	12-340	0		
12-340	05/14/2018	145553	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,480	18.74	TN	12-340	0		
12-340	05/14/2018	145554	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,260	21.13	TN	12-340	0		
12-340	05/14/2018	145555	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,560	21.78	TN	12-340	0		
12-340	05/14/2018	145556	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,120	22.06	TN	12-340	0		
12-340	05/14/2018	145570	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,100	18.55	TN	12-340	0		
12-340	05/14/2018	145573	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,680	19.84	TN	12-340	0		
12-340	05/14/2018	145574	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,180	17.09	TN	12-340	0		
12-340	05/14/2018	145576	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/14/2018	145581	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,200	19.10	TN	12-340	0		
12-340	05/14/2018	145582	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,380	16.69	TN	12-340	0		
12-340	05/14/2018	145585	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,820	16.91	TN	12-340	0		
12-340	05/14/2018	145591	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,560	18.78	TN	12-340	0		
12-340	05/14/2018	145592	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,600	19.30	TN	12-340	0		
12-340	05/14/2018	145608	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,440	17.22	TN	12-340	0		
12-340	05/14/2018	145613	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,280	18.64	TN	12-340	0		
12-340	05/14/2018	145614	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12-340	0		
12-340	05/14/2018	145616	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,040	17.52	TN	12-340	0		
12-340	05/14/2018	145623	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,540	19.27	TN	12-340	0		
12-340	05/14/2018	145625	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,660	17.33	TN	12-340	0		
12-340	05/14/2018	145626	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	31,820	15.91	TN	12-340	0		
12-340	05/14/2018	145640	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,440	17.72	TN	12-340	0		
12-340	05/14/2018	145643	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/14/2018	145650	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,580	16.79	TN	12-340	0		
12-340	05/14/2018	145660	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	29,700	14.85	TN	12-340	0		

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12-340	05/14/2018	145667	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,540	18.27	TN	12-340	0		
12-340	05/14/2018	145669	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/14/2018	145673	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		
12-340	05/14/2018	145674	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,720	19.36	TN	12-340	0		
12-340	05/14/2018	145676	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,980	18.99	TN	12-340	0		
12-340	05/15/2018	145684	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,260	18.63	TN	12-340	0		
12-340	05/15/2018	145689	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/15/2018	145692	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,580	20.79	TN	12-340	0		
12-340	05/15/2018	145697	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,720	19.86	TN	12-340	0		
12-340	05/15/2018	145702	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/15/2018	145705	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,580	20.29	TN	12-340	0		
12-340	05/15/2018	145706	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,940	19.47	TN	12-340	0		
12-340	05/15/2018	145707	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,620	17.81	TN	12-340	0		
12-340	05/15/2018	145717	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,780	17.89	TN	12-340	0		
12-340	05/15/2018	145720	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,840	18.92	TN	12-340	0		
12-340	05/15/2018	145722	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,400	20.20	TN	12-340	0		
12-340	05/15/2018	145724	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,560	19.28	TN	12-340	0		
12-340	05/15/2018	145730	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/15/2018	145734	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,340	20.17	TN	12-340	0		
12-340	05/15/2018	145733	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,560	16.78	TN	12-340	0		
12-340	05/15/2018	145739	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,580	17.79	TN	12-340	0		
12-340	05/15/2018	145754	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,760	18.88	TN	12-340	0		
12-340	05/15/2018	145755	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,380	19.19	TN	12-340	0		
12-340	05/15/2018	145756	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/15/2018	145757	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,320	20.66	TN	12-340	0		
12-340	05/15/2018	145763	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,320	21.16	TN	12-340	0		

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12-340	05/15/2018	145765	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,920	18.96	TN	12-340	0		
12-340	05/15/2018	145774	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,360	18.18	TN	12-340	0		
12-340	05/15/2018	145780	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,680	18.84	TN	12-340	0		
12-340	05/15/2018	145799	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,940	19.97	TN	12-340	0		
12-340	05/15/2018	145801	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,900	19.95	TN	12-340	0		
12-340	05/15/2018	145804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,500	18.25	TN	12-340	0		
12-340	05/15/2018	145805	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,680	19.84	TN	12-340	0		
12-340	05/15/2018	145807	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,740	18.87	TN	12-340	0		
12-340	05/15/2018	145808	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,520	17.26	TN	12-340	0		
12-340	05/15/2018	145813	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,440	19.72	TN	12-340	0		
12-340	05/16/2018	145826	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/16/2018	145829	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/16/2018	145832	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/16/2018	145834	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/16/2018	145835	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,640	19.32	TN	12-340	0		
12-340	05/16/2018	145837	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,780	21.39	TN	12-340	0		
12-340	05/16/2018	145838	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	46,080	23.03	TN	12-340	0		
12-340	05/16/2018	145839	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,540	19.77	TN	12-340	0		
12-340	05/16/2018	145841	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,620	20.81	TN	12-340	0		
12-340	05/16/2018	145853	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,620	22.31	TN	12-340	0		
12-340	05/16/2018	145854	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,240	19.62	TN	12-340	0		
12-340	05/16/2018	145857	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,300	21.65	TN	12-340	0		
12-340	05/16/2018	145860	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,200	20.60	TN	12-340	0		
12-340	05/16/2018	145862	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,400	21.20	TN	12-340	0		
12-340	05/16/2018	145866	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,540	19.77	TN	12-340	0		
12-340	05/16/2018	145869	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		

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12-340	05/16/2018	145873	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,540	16.77	TN	12-340	0		
12-340	05/16/2018	145875	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,220	19.61	TN	12-340	0		
12-340	05/16/2018	145890	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,560	22.28	TN	12-340	0		
12-340	05/16/2018	145894	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/16/2018	145898	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,340	19.17	TN	12-340	0		
12-340	05/16/2018	145899	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,900	19.45	TN	12-340	0		
12-340	05/16/2018	145901	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,640	17.32	TN	12-340	0		
12-340	05/16/2018	145910	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,340	18.67	TN	12-340	0		
12-340	05/16/2018	145911	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,400	20.20	TN	12-340	0		
12-340	05/16/2018	145913	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18.60	TN	12-340	0		
12-340	05/16/2018	145918	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,520	19.76	TN	12-340	0		
12-340	05/16/2018	145943	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,060	22.03	TN	12-340	0		
12-340	05/16/2018	145944	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,720	17.86	TN	12-340	0		
12-340	05/16/2018	145947	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,020	19.01	TN	12-340	0		
12-340	05/16/2018	145949	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,680	16.84	TN	12-340	0		
12-340	05/16/2018	145950	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/16/2018	145954	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,860	19.43	TN	12-340	0		
12-340	05/16/2018	145957	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,500	20.25	TN	12-340	0		
12-340	05/16/2018	145958	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	32,060	16.03	TN	12-340	0		
12-340	05/16/2018	145959	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,500	19.25	TN	12-340	0		
12-340	05/17/2018	145965	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,640	18.82	TN	12-340	0		
12-340	05/17/2018	145969	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,080	19.54	TN	12-340	0		
12-340	05/17/2018	145972	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,820	20.41	TN	12-340	0		
12-340	05/17/2018	145984	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,040	18.52	TN	12-340	0		
12-340	05/17/2018	145985	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,420	17.71	TN	12-340	0		
12-340	05/17/2018	145989	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,360	19.18	TN	12-340	0		

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12-340	05/17/2018	145993	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,280	18.14	TN	12-340	0		
12-340	05/17/2018	145998	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,960	19.98	TN	12-340	0		
12-340	05/17/2018	146001	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18.60	TN	12-340	0		
12-340	05/17/2018	146002	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,920	18.46	TN	12-340	0		
12-340	05/17/2018	146008	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,980	18.49	TN	12-340	0		
12-340	05/17/2018	146010	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,040	18.02	TN	12-340	0		
12-340	05/17/2018	146017	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,700	20.35	TN	12-340	0		
12-340	05/17/2018	146023	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/17/2018	146026	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,500	18.75	TN	12-340	0		
12-340	05/17/2018	146030	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,020	20.01	TN	12-340	0		
12-340	05/17/2018	146029	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,320	19.66	TN	12-340	0		
12-340	05/17/2018	146049	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,820	19.41	TN	12-340	0		
12-340	05/17/2018	146051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,100	18.05	TN	12-340	0		
12-340	05/17/2018	146055	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,400	21.20	TN	12-340	0		
12-340	05/17/2018	146062	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/17/2018	146071	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,180	19.09	TN	12-340	0		
12-340	05/17/2018	146073	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,180	18.59	TN	12-340	0		
12-340	05/17/2018	146074	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,000	19.50	TN	12-340	0		
12-340	05/18/2018	146092	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,920	19.46	TN	12-340	0		
12-340	05/18/2018	146094	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,180	20.09	TN	12-340	0		
12-340	05/18/2018	146099	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,720	19.86	TN	12-340	0		
12-340	05/18/2018	146101	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,820	21.91	TN	12-340	0		
12-340	05/18/2018	146112	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,180	20.59	TN	12-340	0		
12-340	05/18/2018	146115	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,460	19.23	TN	12-340	0		
12-340	05/18/2018	146121	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,000	18.50	TN	12-340	0		
12-340	05/18/2018	146122	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,420	20.71	TN	12-340	0		

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12-340	05/18/2018	146124	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,940	18.47	TN	12-340	0		
12-340	05/18/2018	146126	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,920	19.46	TN	12-340	0		
12-340	05/18/2018	146127	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,680	20.34	TN	12-340	0		
12-340	05/18/2018	146130	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,300	18.15	TN	12-340	0		
12-340	05/18/2018	146142	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,580	17.79	TN	12-340	0		
12-340	05/18/2018	146144	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,380	18.19	TN	12-340	0		
12-340	05/18/2018	146157	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/18/2018	146159	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12-340	0		
12-340	05/18/2018	146164	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,700	17.85	TN	12-340	0		
12-340	05/18/2018	146169	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,700	19.35	TN	12-340	0		
12-340	05/18/2018	146174	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,460	18.73	TN	12-340	0		
12-340	05/18/2018	146175	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,880	19.94	TN	12-340	0		
Tickets: 399 Avg /Ticket: 19.46									7,763.51					

$$7,763.51 \div 1.5 = 5,175.67$$

Electronic Filing Received, Clerk's Office 10/23/2020

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210304
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-18-18

CUSTOMER: CHASEE Chase Environmental
PRODUCT: 3 minus
ORDER: CHASEE
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 2

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210304
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-8-17

CUSTOMER: Chasee Chase Environmental
PRODUCT:
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210297
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-4-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210304
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-9-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus/clean
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	399 tons	5.00	1995.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210298
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-7-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210302
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-10-11

CUSTOMER: Chasee Chase Environmental
PRODUCT:
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	399 tons	5.00	1995.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210309
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-11-18

CUSTOMER: Chasee Chase Environmental
PRODUCT:
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	441 tons	5.00	2205.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210305
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-15-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210308
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-14-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	609 tons	5.00	3045.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210306
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-17-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	483 tons	5.00	2415.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210301
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-16-18

CUSTOMER: Chasee Chase Environmental
PRODUCT:
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	504 tons	5.00	2520.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210307
Plant: (217) 723-4410
Main Office: (309) 757-8250
DATE: 5-18-18

CUSTOMER: Chasee Chase Environmental
PRODUCT: 3 minus
ORDER: Chasee col
VEHICLE:
P.O./JOB:
DELIVERY INFORMATION:

POUNDS	TONS (US)	RATE	AMOUNT
GROSS	470 tons	5.00	2350.00
TARE			
NET			
		TAX:	
		FEES:	
		TOTAL	

DRIVER'S SIGNATURE: _____ CUSTOMER COPY 1

0318
\$ 5,115.00

Florence Quarry CS33 Central Stone Company
 28178 487 St. Pitsfield, IL 62363
 LDOT# 5149204

Ticket No: 210308
 Plant: (217) 723-4410
 Main Office: (309) 757-8250

DATE: 5-21-18

CUSTOMER: CHASE ENVIRONMENTAL PRODUCT: 3" MINUS

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS	4170	15.0		651.75
TARE			42.05	TAX:
NET				FEES:
				TOTAL

ORDER: CHASE E001

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
 28178 487 St. Pitsfield, IL 62363
 LDOT# 5149204

Ticket No: 210308
 Plant: (217) 723-4410
 Main Office: (309) 757-8250

DATE: 5-22-18

CUSTOMER: CHASE ENVIRONMENTAL PRODUCT: 3" MINUS

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS	4170	15.0		637.00
TARE				TAX:
NET				FEES:
				TOTAL

ORDER: CHASE E001

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
 28178 487 St. Pitsfield, IL 62363
 LDOT# 5149204

Ticket No: 210308
 Plant: (217) 723-4410
 Main Office: (309) 757-8250

DATE: 5-22-18

CUSTOMER: CHASE ENVIRONMENTAL PRODUCT: 3" MINUS

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS	4170	15.0		651.75
TARE				TAX:
NET				FEES:
				TOTAL

ORDER: CHASE E001

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE _____ CUSTOMER COPY 1

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-9-18

Load of: Wash Rock

Name: #15 Baird

Address:

On
Driver: Off

Weigher:

Remarks:

72500
33000
39300

19.9

Load of: #8

Name:

Address:

On
Driver: Off

Weigher:

Remarks:

68880
31.000
37880

18.99

Date: 5-5-18

Load of: Wash Rock

Name: #6 Baird

Address:

On
Driver: Off

Weigher:

Remarks:

67880
31000
36880

18.44

Date: 5-9-18

Load of: Wash Rock

Name: #99

Address:

On
Driver: Off

Weigher:

Remarks:

67360
31000
36260

18.13

Date: 5-4-18

Load of: Wash Rock

Name: #99 Baird

Address:

On
Driver: Off

Weigher:

Remarks:

68,000
31,220
36,840

18.42

Date: 5-4-18

Load of: #13

Name:

Address:

On
Driver: Off

Weigher:

Remarks:

72,140
33,000
39,140

14.57

Date: 5-9-18

Load of: Wash Rock

Name: #6 Baird

Address:

On
Driver: Off

Weigher:

Remarks:

64640
31000
33640

16.52

Date: 5-9-18

Load of: Wash Rock

Name: Baird #13

Address:

On
Driver: Off

Weigher:

Remarks:

#13 8:05 am
72040
33000
39040

14.52

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-10-18

Load of: 99

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

72,280
33,000

39280

19.64

Date: 0-10-18

Load of: #13

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

78880

33000

45880

22.94

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-10-18

Load of: #13

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

74200
33000
41200

20.6

Load of: #99

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

67960
31220
36740

18.37

Date: # 5-10-18

Load of: #8

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

85460
31000
54460

17.23

Date: 5-10-18

Load of: #13

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

68840
33000
35840

17.92

Date: 5-10-18

Load of: #8

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

67840
31000
36840

18.42

Date: 5-10-18

Load of: _____

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

truck #13
74860
33000
41860

20.93

Date: 5-10-18

Load of: _____

Name: #99

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

75,180
31,220
43,960

21.98

Date: 5-10-18

Load of: #8

Name: _____

Address: _____

On
Driver: Off

Weigher: _____

Remarks: _____

71126
31000
~~40120~~ 40120

20.06

Electronic Filing: Received, Clerk's Office 10/23/2020

Date: 5-9-18

Load of: Wash Rock

Name: Beard #99

Address:

Driver: On Off

Weigher:

Remarks:

68260
31220
37040
18.5

Load of: WASH ROCK

Name: Beard #99

Address:

Driver: On Off

Weigher:

Remarks:

69160
31480
37680
18.29

Date: 5-9-18

Load of: WASH ROCK

Name: Beard #8

Address:

Driver: On Off

Weigher:

Remarks:

71200
31000
40200
18

Date: 5-9-18 #

Load of: WASH ROCK

Name: Beard #13

Address:

Driver: On Off

Weigher:

Remarks:

74360
33000
41360
18.68

Date: 5-11-18

Load of: Rock Wash

Name: Beard #21

Address:

Driver: On Off

Weigher: JASON

Remarks:

68280
33000
35280
17.64

Date: 5-10-18

Load of: #99

Name:

Address:

Driver: On Off

Weigher:

Remarks:

72540
31220
41320
20.66

Date: 5-11-18

Load of: Wash

Name: Beard #13

Address:

Driver: On Off

Weigher:

Remarks:

79980
31000
48980
24.44

Date: 5-10-18

Load of: #8

Name:

Address:

Driver: On Off

Weigher:

Remarks:

73800
31000
42800
21.4

Electronic Filing: Received, Clerk's Office 10/23/2020

Florence Quarry CS33 Central Stone Company
 26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
 ILDOT# 5149204 Main Office: (309) 757-8250 Time Out: 07:12

TICKET NO: 30464889 ORIGINAL
 Date: 5/19/2018

Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS) P O BOX AB CENTRALIA, IL 62801 (618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB	Material: CMESP Desc: 079CM06 IL ST BASE Billed Units: 20.64 Tons (US) Gross 72560 35.28 Tare 51260 15.64 Net 41280 20.64
---	--

P.O./Job: Today's Totals: 20.64 Tons (US) 1 Loads	Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN Vehicle: P882488 Driver: LUMLEY 116 GREG Delivery: DelPickup: PickUp	Rate Amount Tax: 122 7.750 Fees:
--	--	--

Driver's signature: _____ Rec'd by: _____
 customer copy 1

Florence Quarry CS33 Central Stone Company
 26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
 ILDOT# 5149204 Main Office: (309) 757-8250 Time Out: 07:17

TICKET NO: 30464889 ORIGINAL
 Date: 5/19/2018

Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS) P O BOX AB CENTRALIA, IL 62801 (618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB	Material: CMESP Desc: 079CM06 IL ST BASE Billed Units: 19.33 Tons (US) Gross 72020 36.01 Tare 33260 16.53 Net 38760 19.33
---	--

P.O./Job: Today's Totals: 81.52 Tons (US) 4 Loads	Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN Vehicle: P499087 Driver: LUMLEY 108 Delivery: DelPickup: PickUp	Rate Amount Tax: 122 7.750 Fees:
--	---	--

Driver's signature: _____ Rec'd by: _____
 customer copy 1

Florence Quarry CS33 Central Stone Company
 26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
 ILDOT# 5149204 Main Office: (309) 757-8250 Time Out: 07:13

TICKET NO: 30464887 ORIGINAL
 Date: 5/19/2018

Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS) P O BOX AB CENTRALIA, IL 62801 (618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB	Material: CMESP Desc: 079CM06 IL ST BASE Billed Units: 20.82 Tons (US) Gross 74480 37.24 Tare 32840 16.42 Net 41640 20.82
---	--

P.O./Job: Today's Totals: 41.66 Tons (US) 2 Loads	Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN Vehicle: P980940 Driver: LUMLEY #209 Delivery: DelPickup: PickUp	Rate Amount Tax: 122 7.750 Fees:
--	--	--

Driver's signature: _____ Rec'd by: _____
 customer copy 1

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information:

Gross: 72,000 Product: DIRT
 Net: 41,500 Contracted Delivery
 Tare: 30,500 Tons Rate 20.75 T Tractor Work: 116 WARD
 Delivery Charge:
 Total Amount Due:

Florence Quarry CS33 Central Stone Company
 26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
 ILDOT# 5149204 Main Office: (309) 757-8250 Time Out: 07:16

TICKET NO: 30464888 ORIGINAL
 Date: 5/19/2018

Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS) P O BOX AB CENTRALIA, IL 62801 (618) 533-6740 Order: CHASEE002 CLAYTON IL FILL JOB	Material: CMESP Desc: 079CM06 IL ST BASE Billed Units: 20.68 Tons (US) Gross 73440 36.72 Tare 32080 16.04 Net 41360 20.68
---	--

P.O./Job: Today's Totals: 62.14 Tons (US) 3 Loads	Rate: Carrier: LUMTRK LUMLEY TRUCKING Vehicle: P980941 Driver: LUMLEY TRUCKING Delivery: DelPickup: PickUp	Rate Amount Tax: 122 7.750 Fees:
--	--	--

Driver's signature: _____ Rec'd by: _____
 customer copy 1

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information:

Gross: 72,300 Product:
 Net: 41,800 Contracted Delivery
 Tare: 30,500 Tons Rate 20.9T Tractor Work: 116 WARD
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information: # 209

Gross: 72,600 Product: DIRT
 Net: 40,000 Contracted Delivery
 Tare: 32,500 Tons Rate 20 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information: # 209

Gross: 74,500 Product: DIRT
 Net: 42,000 Contracted Delivery
 Tare: 32,500 Tons Rate 21 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

Delivery Information: 202

Gross: 75,000 Product: DIRT
 Net: 44,000 Contracted Delivery
 Tare: 31,000 Tons Rate 22 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

Delivery Information: 202

Gross: 73,000 Product: DIRT
 Net: 42,000 Contracted Delivery
 Tare: 31,000 Tons Rate 21 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

Delivery Information: 202

Gross: 73,000 Product: DIRT
 Net: 42,000 Contracted Delivery
 Tare: 31,000 Tons Rate 21 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Lumley Trucking LLC
 P.O. Box 111
 Barry, IL 62312 Fein # 04-3765032
 Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-16-18

Delivery Information: 202

Gross: 73,000 Product: DIRT
 Net: 42,000 Contracted Delivery
 Tare: 31,000 Tons Rate 21 Tractor Work:
 Delivery Charge:
 Total Amount Due:

Handwritten calculations:
 125.651
 - 42.15

 83.76

total through this page 7,867.37 ÷ 1.5 = 5,244.91

0324
 207.17

Lumley Trucking LLC
 P.O. Box 111
 Barry, Il. 62312

Invoice

Date	Invoice #
6/18/18	7815

Bill To

Chase Environmental Group INC
 2701 Eash Ash
 Springfield, IL 62704

phone # 217-335-2400	

Item	Description	Location	Qty	Rate	Amount
Haul	Dirt Plus Hauling	Clayton IL	125.65	13.00	1,633.45
Depart: <u>.032</u> Job# <u>FG908004P.F</u> Equip#: _____ Account#: <u>40</u> Cost Code#: _____ Approved By: <u>MC</u> Date: <u>6/20/18</u> pay 30					

Total					\$1,633.45
Payments/Credits					\$0.00
Balance Due					\$1,633.45

DUE UPON RECEIPT.
 Finance Charges of 18% annually will be added if not paid within 30 days of invoice date.

Post date: 07/26/2018
Amount: \$ 1633.45

Account: 979089729
Check Number: 93370

CHASE ENVIRONMENTAL GROUP, INC.
11459 WATTELSON CT
LOUISVILLE, KENTUCKY 40299-2393
(502) 267-4456

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com
21-13800

93370

DATE: 7/17/2018
AMOUNT: 1,633.45

THE SUM OF ONE THOUSAND SIX HUNDRED THIRTY THREE DOLLARS AND 45 CENTS

PAY TO THE ORDER OF
Lumley Trucking, LLC
P.O. Box 111
Barry, IL 62312

93370

979089729

7/26/2018 0001 0003
PEW 29

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE

NUMBER ONE: PAID TO THE ORDER OF
FIRST NATIONAL BANK OF CHICAGO
BRANCH: CHICAGO
ACCOUNT: 401555
LUMLEY TRUCKING LLC
ACCOUNT: 401555

Security Features: Results of document simulation
Metal Ink: Microprint, color-shifting ink, color-shifting numbers
Color: Color-shifting ink, color-shifting numbers
Watermark: Watermark, color-shifting ink, color-shifting numbers
Hologram: Hologram, color-shifting ink, color-shifting numbers
Microprint: Microprint, color-shifting ink, color-shifting numbers
Color-shifting ink: Color-shifting ink, color-shifting numbers
Color-shifting numbers: Color-shifting numbers

* FEDERAL RESERVE BOARD OF GOVERNORS REG. CC

BEAIRD TRANSPORT, INC.

Sam & Heather Beard
 7132 E Seed Corn Road
 Astoria, IL 61501
 (309) 329-9931

DATE
5/15/2018

INVOICE #
13558

BILL TO:
PARKER GAS AND MOORE 11450 WATERSON CT. LOUISVILLE, KY 40299

SPECIAL INSTRUCTIONS/JOB INFORMATION
CHASE ENVIRONMENTAL JOB TO HICKORY RIDGE LANDFILL FROM CLAYTON, IL 5/1/18 THRU 5/11

TERMS
Due on receipt

P.O. NO.
S0908004

MATERIAL HAULED OR SERVICE PROVIDED	RATE EACH/ TON/HOUR/BUS...	QTY HAULED	TOTAL
TRAILER RENTAL PER HOUR HAULING OFF MATERIALS FROM CLAYTON, IL TO HICKORY RIDGE LANDFILL - AND HAULING BACK FILL BACK INTO CLAYTON, IL FOR CHASE ENVIRONMENTAL TICKET # 3377 ,5340, 8067, 3243, 8001, 3237, 5341, 8068, 8008, 8002, 3242, 8069, 3378, 8003, 8070, 3383, 2319, 3384, 8071, 8297, 8004, 8005, 8072, 3385, 8296, 2001, 3487, 8073, 8006, 2007, 3488, 8074, 8007, 2320, 8075, 8009	88.00	307.5	27,060.00
Sales Tax	7.75%		0.00

Depart: 032
 Job# F0908004P.F
 Equip#: _____
 Account#: _____
 Cost Code#: 40
 Approved By: ML
 Date: 5/23/18

MAY 17 2018


Total Due	\$27,060.00
------------------	--------------------

A 2% late charge will be added to all
 invoices over 30 days.
 Thank you for your business!

JPMORGAN CHASE & CO.

Post date: 06/19/2018
Amount: \$ 27060.00

Account: 979089729
Check Number: 93115

CHASE ENVIRONMENTAL GROUP, INC. 11450 WATERSON CT LOUISVILLE, KENTUCKY 40299-2369 (502) 267-1455		CHASE JPMorgan Chase Bank, N.A. www.Chase.com 21-12930	93115
DATE: 6/13/2018		AMOUNT: *****27,060.00	
THE SUM OF TWENTY SEVEN THOUSAND SIXTY DOLLARS AND NO CENTS *****			
PAY TO THE ORDER OF Beard Transport, Inc. Sam & Heather Beard 7132 E Seed Corn Road Astoria, IL 61501			
⑆05115⑆ ⑆03000137⑆ 979089729⑆			

FEDERAL RESERVE BOARD OF GOVERNORS REG. CC This account features funds that are not insured by FDIC.	PAY TO THE ORDER OF BEARD TRANSPORT, INC 7132 E SEED CORN RD ASTORIA, IL 61501
SIGNATURE: [Signature] DATE: 6/13/2018 AMOUNT: \$27,060.00	BEARD TRANSPORT, INC 7132 E SEED CORN RD ASTORIA, IL 61501

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12/16/19

BEAIRD TRANSPORT, INC.

Sam & Heather Beaird
7132 E Seed Corn Road
Astoria, IL 61501
(309) 329-9931

DATE	INVOICE #
6/6/2018	13636

BILL TO:
PARKER GAS AND MOORE 11450 WATERSON CT. LOUISVILLE, KY 40299

SPECIAL INSTRUCTIONS/JOB INFORMATION

RECEIVED
JUN 13 2018

TERMS
Due on receipt

P.O. NO.
S0908004

MATERIAL HAULED OR SERVICE PROVIDED	RATE EACH/ TON/HOUR/BUS...	QTY HAULED	TOTAL
TRAILER RENTAL PER HOUR HAULING MATERIALS FROM CLAYTON, IL TO THE HICKORY RIDGE LANDFILL AND HAULING BACKFILL INTO CLAYTON, IL TICKET # 3227, 8012, 8066, 8050, 3229, 8013, 8064, 8052, 3228, 8014, 8056, 8055, 3230, 8062, 8059, 3231, 8031, 8351, 8060, 3232, 8032, 8017, 8061, 3233, 8347, 8040, 8054, 3234, 8029, 8018, 8030, 3236, 7517, 7525, 2227, 8076, 8083, 2322, 7619, 7585, 3235, 8019, 7566, 2321, 8077, 8084, 7620, 7586, 7534, 8023, 7567, 8085, 8078, 7625, 2021, 2066, 7588, 7531, 8022, 7568, 8079, 8086, 7621, 2233, 7582, 7533, 7530, 7622, 8080, 7845, 8087, 7584, 7535, 7526, 8355, 7624, 8081, 8088, 7527, 7536, 2234, 7421, 7537, 7528, 7569, 7591, 8082, 8089, 7846 Sales Tax	88.00	727.25	63,998.00
			0.00

Depart: 032
Job# F0908004P.F
Equip#: _____
Account#: 40
Cost Code#: _____
Approved By: ML
Date: 6-15-18

Total Due \$63,998.00

A 2% late charge will be added to all invoices over 30 days.
Thank you for your business!

JUN 11 2018

Consulting Personnel Costs Form

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
0		Senior Project Manager	.00	119.11	\$.00
CCAP	Negotiate access to adjoining properties east (private residential) and south (City park)				
0		Senior Project Manager	.00	119.11	\$.00
CCAP	Coordinate Aug 2013 overburden soil investigation				
0		Senior Project Manager	.00	119.11	\$.00
CCA-Field	Supervise/document overburden investigation and reconditioning monitoring wells (4days x 10hrs ea)				
0		Senior Technician	.00	71.45	\$.00
CCA-Field	Collect overburden samples, locate/recondition monitoring wells, site mapping (4days x 10hrs ea)				
0		Senior Project Manager	.00	119.11	\$.00
FP-Field	Supervise/document free product investigation, removal & monitoring activities (5 days x 10hrs ea)				
0		Senior Project Manager	.00	121.49	\$.00
CCA-Field	Supervise/document Oct 2014 groundwater investigation (3 days x 10 hrs ea)				
0		Senior Technician	.00	78.96	\$.00
CCA-Field	Oct 2014 groundwater investigation: purge wells, collect groundwater samples (3 days x 10 hrs ea)				
0		Senior Project Manager	.00	121.49	\$.00
FP-Design	Coordinate/schedule free product investigation, removal & monitoring activities				
0		Senior Project Manager	.00	121.49	\$.00
CCAP	Coordinate/schedule Oct 2014 groundwater investigation activities				

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Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
Matthew Rives (MR)	Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure contractors/service providers for proposed overburden removal, soil abatement & backfilling			
MR	Senior Project Manager	12.00	121.49	\$1,457.88
CCAP	Secure access & coordinate field activities with Property Owners and contractors			
MR, Alan Curtiss (AC)	Senior Project Manager	200.00	121.49	\$24,298.00
CCA-Field	Supervise/document overburn removal, soil abatement & backfilling activities (20 days x 10 hrs ea)			
Zack Page (ZP), Brandon Maus (BM)	Senior Technician	178.00	78.96	\$14,054.88
CCA-Field	Collect soil samples, prep. site map, coordinate waste manifests, etc. during soil abatement activities			
x	Senior Project Manager	.00	121.49	\$0.00
CCA-Field	Supervise/document post-abatement groundwater investigation activities (4 days x 10 hrs ea)			
x	Geologist III	.00	121.49	\$0.00
CCA-Field	Post-abatement groundwater investigation: Log borings, screen soil, document well construction, etc.			
0	Senior Project Manager	.00	121.49	\$0.00
CCAP	Draft Jan 2015 CAP & Free Product Removal Report			
0	Senior Project Manager	.00	121.49	\$0.00
CCAP-Budget	Prepare Jan 2015 CAP & Free Product Removal Report Budget			
0	Senior Prof. Geologist	.00	133.64	\$0.00
CCAP	Review/certify Jan 2015 CAP & Free Product Removal Report			

Electronic Filing: Received, Clerk's Office 10/23/2020

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
0		Senior Prof. Geologist	.00	133.64	\$.00
CCAP-Budget	Review/certify Jan 2015 CAP & Free Product Removal Report Budget				
0		Senior Draftperson/CAD	.00	72.88	\$.00
CCAP	Prepare maps/figures included in Jan 2015 CAP & Free Product Removal Report				
0		Senior Admin. Assistant	.00	54.67	\$.00
CCAP	Prepare/submit Jan 2015 CAP & Free Product Removal Report to O/O and IEPA				
0		Senior Project Manager	.00	121.49	\$.00
ELUC	Revise contaminant transport models				
x		Senior Project Manager	.00	121.49	\$.00
HAA	Prepare/negotiate HAA between O/O and IDOT				
x		Senior Admin. Assistant	.00	54.67	\$.00
HAA	Prepare/submit HAA to O/O and IDOT				
x		Senior Project Manager	.00	121.49	\$.00
ELUC	Identify Property Owners requiring notification of groundwater ordinance as Institutional Control				
x		Senior Project Manager	.00	121.49	\$.00
ELUC	Prepare Property Owner Notification letters.				
x		Senior Admin. Assistant	.00	54.67	\$.00
ELUC	Prepare/submit notification letters to Property Owners and City of Clayton				

Electronic Filing: Received, Clerk's Office 10/23/2020



Waste Management • Remediation • Drilling Services

Personnel Work Sheet

Project: Parker's Gas & More
 Stage: Corrective Action
 Incident #: 95-1012

Project Name	Employee Name	Personnel Title	Work Date	In	Out	Billing Period		Day of Week	Hours Worked
						From	To		
Parkers Gas N More	Zack Page	Sr. Technician	12/19/17	9:00	10:30	12/17/2017	12/23/2017	Tuesday	1.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	03/30/18	8:00	10:00	3/25/2018	3/31/2018	Friday	2.00
Parkers Gas N More	Zack Page	Sr. Technician	04/04/18	15:30	17:00	4/1/2018	4/7/2018	Wednesday	1.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/04/18	12:00	17:00	4/1/2018	4/7/2018	Wednesday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/05/18	8:00	12:00	4/1/2018	4/7/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/05/18	13:00	17:00	4/1/2018	4/7/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/06/18	8:00	12:00	4/1/2018	4/7/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/06/18	13:00	17:00	4/1/2018	4/7/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/09/18	14:00	17:00	4/8/2018	4/14/2018	Monday	3.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/10/18	8:00	12:00	4/8/2018	4/14/2018	Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/10/18	13:00	17:00	4/8/2018	4/14/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/12/18	8:00	11:00	4/8/2018	4/14/2018	Thursday	3.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/12/18	8:00	16:00	4/8/2018	4/14/2018	Thursday	8.00
Parkers Gas N More	Brandon Maus	Sr. Technician	04/13/18	14:00	14:30	4/8/2018	4/14/2018	Friday	0.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/13/18	8:00	12:00	4/8/2018	4/14/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/13/18	13:00	17:00	4/8/2018	4/14/2018	Friday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	7:00	12:00	4/15/2018	4/21/2018	Thursday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	13:00	17:00	4/15/2018	4/21/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	7:00	12:00	4/15/2018	4/21/2018	Thursday	5.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/19/18	13:00	17:00	4/15/2018	4/21/2018	Thursday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/26/18	10:00	12:00	4/22/2018	4/28/2018	Thursday	2.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/27/18	9:00	13:00	4/22/2018	4/28/2018	Friday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/30/18	8:00	12:00	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	8:00	9:30	4/29/2018	5/5/2018	Monday	1.50
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	9:30	12:00	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Brandon Maus	Laborer	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	04/30/18	5:00	17:00	4/29/2018	5/5/2018	Monday	12.00
Parkers Gas N More	Ray joseph	Operator	04/30/18	7:00	9:30	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Ray joseph	Operator	04/30/18	9:30	12:00	4/29/2018	5/5/2018	Monday	2.50
Parkers Gas N More	Ray joseph	Operator	04/30/18	12:30	16:30	4/29/2018	5/5/2018	Monday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	05/01/18	6:00	11:30	4/29/2018	5/5/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/01/18	12:00	15:00	4/29/2018	5/5/2018	Tuesday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/01/18	6:30	11:00	4/29/2018	5/5/2018	Tuesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/01/18	11:30	15:00	4/29/2018	5/5/2018	Tuesday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/01/18	5:00	17:00	4/29/2018	5/5/2018	Tuesday	12.00
Parkers Gas N More	Ray joseph	Operator	05/01/18	6:00	11:00	4/29/2018	5/5/2018	Tuesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/01/18	11:30	15:30	4/29/2018	5/5/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	05/02/18	6:00	12:30	4/29/2018	5/5/2018	Wednesday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/02/18	13:00	15:00	4/29/2018	5/5/2018	Wednesday	2.00
Parkers Gas N More	Brandon Maus	Laborer	05/02/18	6:30	11:00	4/29/2018	5/5/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/02/18	11:30	15:00	4/29/2018	5/5/2018	Wednesday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/02/18	5:00	17:00	4/29/2018	5/5/2018	Wednesday	12.00
Parkers Gas N More	Ray joseph	Operator	05/02/18	6:30	11:00	4/29/2018	5/5/2018	Wednesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/02/18	11:30	15:00	4/29/2018	5/5/2018	Wednesday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	6:00	12:00	4/29/2018	5/5/2018	Thursday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	12:30	15:00	4/29/2018	5/5/2018	Thursday	2.50
Parkers Gas N More	Brandon Maus	Laborer	05/03/18	6:30	11:00	4/29/2018	5/5/2018	Thursday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/03/18	11:30	15:00	4/29/2018	5/5/2018	Thursday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/03/18	5:00	17:00	4/29/2018	5/5/2018	Thursday	12.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	6:00	12:00	4/29/2018	5/5/2018	Thursday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/03/18	12:30	15:00	4/29/2018	5/5/2018	Thursday	2.50
Parkers Gas N More	Ray joseph	Operator	05/03/18	6:00	11:00	4/29/2018	5/5/2018	Thursday	5.00
Parkers Gas N More	Ray joseph	Operator	05/03/18	11:30	16:00	4/29/2018	5/5/2018	Thursday	4.50
Parkers Gas N More	Zack Page	Sr. Technician	05/04/18	6:00	12:30	4/29/2018	5/5/2018	Friday	6.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	6:30	11:00	4/29/2018	5/5/2018	Friday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	11:30	15:00	4/29/2018	5/5/2018	Friday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	15:00	16:00	4/29/2018	5/5/2018	Friday	1.00
Parkers Gas N More	Brandon Maus	Laborer	05/04/18	16:00	17:30	4/29/2018	5/5/2018	Friday	1.50
Parkers Gas N More	Zack Page	Sr. Technician	05/04/18	6:00	12:30	4/29/2018	5/5/2018	Friday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/04/18	13:00	16:00	4/29/2018	5/5/2018	Friday	3.00
Parkers Gas N More	Ray joseph	Operator	05/04/18	6:00	11:00	4/29/2018	5/5/2018	Friday	5.00
Parkers Gas N More	Ray joseph	Operator	05/04/18	11:30	15:30	4/29/2018	5/5/2018	Friday	4.00
Parkers Gas N More	Brandon Maus	Sr. Technician	05/05/18	10:00	12:00	4/29/2018	5/5/2018	Saturday	2.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/07/18	5:00	15:00	5/6/2018	5/12/2018	Monday	10.00
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	4:45	6:15	5/6/2018	5/12/2018	Monday	1.50
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	6:15	12:00	5/6/2018	5/12/2018	Monday	5.75

194.50

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Waste Management • Remediation • Drilling Services

Personnel Work Sheet

Project: Parker's Gas & More
 Stage: Corrective Action
 Incident #: 95-1012

Project Name	Employee Name	Personnel Title	Work Date	In	Out	Billing Period		Day of Week	Hours Worked
						From	To		
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	12:30	13:15	5/6/2018	5/12/2018	Monday	0.75
Parkers Gas N More	Brandon Maus	Laborer	05/07/18	13:15	15:00	5/6/2018	5/12/2018	Monday	1.75
Parkers Gas N More	Zack Page	Sr. Technician	05/07/18	5:00	11:00	5/6/2018	5/12/2018	Monday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/07/18	12:00	15:00	5/6/2018	5/12/2018	Monday	3.00
Parkers Gas N More	Ray joseph	Operator	05/07/18	6:30	12:00	5/6/2018	5/12/2018	Monday	5.50
Parkers Gas N More	Ray joseph	Operator	05/07/18	12:30	15:00	5/6/2018	5/12/2018	Monday	2.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/08/18	6:30	15:00	5/6/2018	5/12/2018	Tuesday	8.50
Parkers Gas N More	Brandon Maus	Laborer	05/08/18	6:30	11:00	5/6/2018	5/12/2018	Tuesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/08/18	11:30	15:00	5/6/2018	5/12/2018	Tuesday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/08/18	6:00	11:30	5/6/2018	5/12/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/08/18	12:00	15:00	5/6/2018	5/12/2018	Tuesday	3.00
Parkers Gas N More	Ray joseph	Operator	05/08/18	6:30	11:00	5/6/2018	5/12/2018	Tuesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/08/18	11:30	15:00	5/6/2018	5/12/2018	Tuesday	3.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/09/18	6:30	15:30	5/6/2018	5/12/2018	Wednesday	9.00
Parkers Gas N More	Brandon Maus	Laborer	05/09/18	6:30	11:00	5/6/2018	5/12/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/09/18	11:30	15:00	5/6/2018	5/12/2018	Wednesday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/09/18	6:00	12:30	5/6/2018	5/12/2018	Wednesday	6.50
Parkers Gas N More	Zack Page	Sr. Technician	05/09/18	13:00	15:00	5/6/2018	5/12/2018	Wednesday	2.00
Parkers Gas N More	Ray joseph	Operator	05/09/18	6:00	11:00	5/6/2018	5/12/2018	Wednesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/09/18	11:30	15:30	5/6/2018	5/12/2018	Wednesday	4.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/10/18	5:00	16:00	5/6/2018	5/12/2018	Thursday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	6:30	11:00	5/6/2018	5/12/2018	Thursday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	11:30	15:00	5/6/2018	5/12/2018	Thursday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	6:00	11:00	5/6/2018	5/12/2018	Thursday	5.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	11:30	15:30	5/6/2018	5/12/2018	Thursday	4.00
Parkers Gas N More	Ray joseph	Operator	05/10/18	15:00	16:00	5/6/2018	5/12/2018	Thursday	1.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/11/18	6:30	17:00	5/6/2018	5/12/2018	Friday	10.50
Parkers Gas N More	Brandon Maus	Laborer	05/11/18	6:30	11:00	5/6/2018	5/12/2018	Friday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/11/18	11:30	15:00	5/6/2018	5/12/2018	Friday	3.50
Parkers Gas N More	Ray joseph	Operator	05/11/18	6:30	11:00	5/6/2018	5/12/2018	Friday	4.50
Parkers Gas N More	Ray joseph	Operator	05/11/18	11:30	15:00	5/6/2018	5/12/2018	Friday	3.50
Parkers Gas N More	Zack Page	Sr. Technician	05/14/18	13:00	17:00	5/13/2018	5/19/2018	Monday	4.00
Parkers Gas N More	Ray joseph	Operator	05/14/18	6:00	12:00	5/13/2018	5/19/2018	Monday	6.00
Parkers Gas N More	Ray joseph	Operator	05/14/18	13:00	15:30	5/13/2018	5/19/2018	Monday	2.50
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	6:15	12:00	5/13/2018	5/19/2018	Monday	5.75
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	12:30	13:15	5/13/2018	5/19/2018	Monday	0.75
Parkers Gas N More	Brandon Maus	Laborer	05/14/18	13:15	15:00	5/13/2018	5/19/2018	Monday	1.75
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/14/18	5:00	17:30	5/13/2018	5/19/2018	Monday	12.50
Parkers Gas N More	Ray joseph	Operator	05/15/18	6:00	11:00	5/13/2018	5/19/2018	Tuesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/15/18	11:30	15:00	5/13/2018	5/19/2018	Tuesday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/15/18	6:30	11:00	5/13/2018	5/19/2018	Tuesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/15/18	11:30	15:00	5/13/2018	5/19/2018	Tuesday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/15/18	5:00	17:30	5/13/2018	5/19/2018	Tuesday	12.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/15/18	10:00	11:30	5/13/2018	5/19/2018	Tuesday	1.50
Parkers Gas N More	Zack Page	Sr. Technician	05/15/18	6:00	12:00	5/13/2018	5/19/2018	Tuesday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/15/18	12:30	15:30	5/13/2018	5/19/2018	Tuesday	3.00
Parkers Gas N More	Ray joseph	Operator	05/16/18	6:30	11:00	5/13/2018	5/19/2018	Wednesday	4.50
Parkers Gas N More	Ray joseph	Operator	05/16/18	11:30	15:30	5/13/2018	5/19/2018	Wednesday	4.00
Parkers Gas N More	Brandon Maus	Laborer	05/16/18	6:30	11:00	5/13/2018	5/19/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/16/18	11:30	15:00	5/13/2018	5/19/2018	Wednesday	3.50
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/16/18	4:45	16:00	5/13/2018	5/19/2018	Wednesday	11.25
Parkers Gas N More	Zack Page	Sr. Technician	05/16/18	6:00	12:00	5/13/2018	5/19/2018	Wednesday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/16/18	12:30	16:00	5/13/2018	5/19/2018	Wednesday	3.50
Parkers Gas N More	Ray joseph	Operator	05/17/18	6:00	11:00	5/13/2018	5/19/2018	Thursday	5.00
Parkers Gas N More	Ray joseph	Operator	05/17/18	11:30	15:00	5/13/2018	5/19/2018	Thursday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	6:00	11:00	5/13/2018	5/19/2018	Thursday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	11:30	14:30	5/13/2018	5/19/2018	Thursday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/17/18	14:30	15:30	5/13/2018	5/19/2018	Thursday	1.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/17/18	6:30	17:00	5/13/2018	5/19/2018	Thursday	10.50
Parkers Gas N More	Zack Page	Sr. Technician	05/17/18	6:00	12:00	5/13/2018	5/19/2018	Thursday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/17/18	12:30	15:30	5/13/2018	5/19/2018	Thursday	3.00
Parkers Gas N More	Ray joseph	Operator	05/18/18	6:30	11:00	5/13/2018	5/19/2018	Friday	4.50
Parkers Gas N More	Ray joseph	Operator	05/18/18	11:30	14:30	5/13/2018	5/19/2018	Friday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/18/18	6:30	11:00	5/13/2018	5/19/2018	Friday	4.50

144.75

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Waste Management • Remediation • Drilling Services

Personnel Work Sheet

Project: Parker's Gas & More
 Stage: Corrective Action
 Incident #: 95-1012

Project Name	Employee Name	Personnel Title	Work Date	In	Out	Billing Period		Day of Week	Hours Worked
						From	To		
Parkers Gas N More	Brandon Maus	Laborer	05/18/18	11:30	15:00	5/13/2018	5/19/2018	Friday	3.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/18/18	8:00	17:00	5/13/2018	5/19/2018	Friday	9.00
Parkers Gas N More	Zack Page	Sr. Technician	05/18/18	6:00	12:00	5/13/2018	5/19/2018	Friday	6.00
Parkers Gas N More	Zack Page	Sr. Technician	05/18/18	12:30	16:30	5/13/2018	5/19/2018	Friday	4.00
Parkers Gas N More	Ray joseph	Operator	05/21/18	10:30	12:00	5/20/2018	5/26/2018	Monday	1.50
Parkers Gas N More	Ray joseph	Operator	05/21/18	12:30	17:30	5/20/2018	5/26/2018	Monday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/21/18	6:00	11:00	5/20/2018	5/26/2018	Monday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/21/18	11:30	15:30	5/20/2018	5/26/2018	Monday	4.00
Parkers Gas N More	Alan Curtiss	Sr. Project Manager	05/21/18	10:00	12:30	5/20/2018	5/26/2018	Monday	2.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/21/18	6:00	17:00	5/20/2018	5/26/2018	Monday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	7:30	12:00	5/20/2018	5/26/2018	Monday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	12:30	16:00	5/20/2018	5/26/2018	Monday	3.50
Parkers Gas N More	Brandon Maus	Laborer	05/21/18	16:00	16:30	5/20/2018	5/26/2018	Monday	0.50
Parkers Gas N More	Ray joseph	Operator	05/22/18	6:00	11:00	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/22/18	11:30	16:30	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Zack Page	Sr. Technician	05/22/18	7:00	12:30	5/20/2018	5/26/2018	Tuesday	5.50
Parkers Gas N More	Zack Page	Sr. Technician	05/22/18	13:00	15:30	5/20/2018	5/26/2018	Tuesday	2.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	05/22/18	6:00	17:00	5/20/2018	5/26/2018	Tuesday	11.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	7:00	12:00	5/20/2018	5/26/2018	Tuesday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	12:30	15:30	5/20/2018	5/26/2018	Tuesday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/22/18	15:30	16:00	5/20/2018	5/26/2018	Tuesday	0.50
Parkers Gas N More	Ray joseph	Operator	05/23/18	6:00	11:00	5/20/2018	5/26/2018	Wednesday	5.00
Parkers Gas N More	Ray joseph	Operator	05/23/18	11:30	16:00	5/20/2018	5/26/2018	Wednesday	4.50
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	6:00	11:00	5/20/2018	5/26/2018	Wednesday	5.00
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	11:30	14:30	5/20/2018	5/26/2018	Wednesday	3.00
Parkers Gas N More	Brandon Maus	Laborer	05/23/18	14:30	16:00	5/20/2018	5/26/2018	Wednesday	1.50
Parkers Gas N More	Ray joseph	Operator	05/24/18	6:00	11:00	5/20/2018	5/26/2018	Thursday	5.00
Parkers Gas N More	Ray joseph	Operator	05/24/18	11:30	15:00	5/20/2018	5/26/2018	Thursday	3.50
Parkers Gas N More	Brandon Maus	Sr. Technician	05/29/18	11:00	17:00	5/27/2018	6/2/2018	Tuesday	6.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/05/18	8:00	17:00	6/3/2018	6/9/2018	Tuesday	9.00
Parkers Gas N More	Matthew Rives	Sr. Project Manager	06/05/18	8:00	17:00	6/3/2018	6/9/2018	Tuesday	9.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/06/18	5:30	15:30	6/3/2018	6/9/2018	Wednesday	10.00
Parkers Gas N More	Brandon Maus	Operator	06/06/18	15:30	17:00	6/3/2018	6/9/2018	Wednesday	1.50
Parkers Gas N More	Matthew Rives	Sr. Project Manager	06/06/18	5:30	17:00	6/3/2018	6/9/2018	Wednesday	11.50
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/12/18	8:00	12:00	6/10/2018	6/16/2018	Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/12/18	13:00	17:00	6/10/2018	6/16/2018	Tuesday	4.00
Parkers Gas N More	Zack Page	Sr. Technician	06/12/18	15:00	16:00	6/10/2018	6/16/2018	Tuesday	1.00
Parkers Gas N More	Brandon Maus	Sr. Technician	06/13/18	15:00	16:00	6/10/2018	6/16/2018	Wednesday	1.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/18/18	8:00	12:00	6/17/2018	6/23/2018	Monday	4.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/18/18	12:00	17:00	6/17/2018	6/23/2018	Monday	5.00
Parkers Gas N More	Matthew Rives	Sr. Prof. Engineer	06/19/18	8:00	12:00	6/17/2018	6/23/2018	Tuesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Acct. technican	06/19/18	12:00	17:00	6/17/2018	6/23/2018	Tuesday	5.00
Parkers Gas N More	Matthew Rives	Sr. Admin. Assistant	06/27/18	8:00	12:00	6/24/2018	6/30/2018	Wednesday	4.00
Parkers Gas N More	Matthew Rives	Sr. Admin. Assistant	06/27/18	13:00	17:00	6/24/2018	6/30/2018	Wednesday	4.00

142
481.25

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Metal Detector		.00	65.00	Day	\$.00
CCA-Field	Locate monitoring wells for reconditioning in Aug 2013 & sampling in Oct 2014				
Bailers		.00	25.00	Each	\$.00
CCA-Field	Recondition monitoring wells Aug 2013				
Bailers		.00	25.00	Each	\$.00
FP-Field	Free Product investigation/removal. Wells RW1 & FP1 - FP3				
Bailers		.00	25.00	Each	\$.00
CCA-Field	Proposed post-abatement monitoring wells				
Water Level Indicator		.00	30.00	Day	\$.00
CCA-Field	Locate monitoring wells Aug 2013 for reconditioning (2 personnel using 1 indicator each)				
Water Level Indicator		.00	30.00	Day	\$.00
FP-Field	Free Product investigation, removal & monitoring				
Water Level Indicator		.00	30.00	Day	\$.00
CCA-Field	Oct 2014 groundwater sample collection				
Water Level Indicator		.00	30.00	Day	\$.00
CCA-Field	Proposed post-abatement groundwater investigation				
Survey Equipment		.00	150.00	Day	\$.00
CCA-Field	Proposed post-abatement groundwater investigation				

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Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
Vehicle (Mileage)	.00	.58	Mile	\$0.00
CCA-Field	Overburden soil investigation and recondition monitoring wells (Aug 2013)			
Vehicle (Mileage)	.00	.58	Mile	\$0.00
FP-Field	Free Product investigation, removal & monitoring			
Vehicle (Mileage)	.00	.58	Mile	\$0.00
CCA-Field	Oct 2014 groundwater investigation			
Vehicle	.00	175.00	Day	\$0.00
CCA-Field	Proposed overburden removal/replacement, soil abatement & backfilling			
Vehicle	.00	175.00	Day	\$0.00
CCA-Field	Proposed post-abatement groundwater investigation			
Hotel	.00	136.80	Night	\$0.00
CCA-Field	Overburden investigation & recondition monitoring wells (2 personnel x 4 nights)			
Hotel	.00	126.54	Night	\$0.00
FP-Field	Free Product investigation, removal & monitoring			
Hotel	3.00	101.46	Night	\$304.38
CCA-Field	Proposed overburden removal, soil abatement & backfilling (2 personnel x 16 nights)			
Hotel	.00	125.00	Night	\$0.00
CCA-Field	Proposed post-abatement groundwater investigation (2 personnel x 4 nights)			

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Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Overburden investigation & recondition monitoring wells (2 personnel x 5 days w/travel)				
Per Diem		.00	42.00	Day	\$.00
FP-Field	Free Product investigation, removal & monitoring (includes travel)				
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Aug 2014 groundwater sample collection (includes travel)				
Per Diem		3.00	42.00	Day	\$126.00
CCA-Field	Proposed overburden removal, soil abatement, backfilling (2 personnel x 20 days w/travel)				
Per Diem		.00	42.00	Day	\$.00
CCA-Field	Proposed post-abatement groundwater investigation (2 personnel x 4 days w/travel)				
Copies		.00	30.00	Each	\$.00
CCAP	January 2014 CAP/Free Product Removal Report for O/O (1 copy) & IEPA (2 copies)				
Copies		.00	30.00	Each	\$.00
CA-Pay	Copies of reimbursement application for O/O & IEPA (1 each)				
Copies		.00	30.00	Each	\$.00
HAA	Copies of proposed HAA for O/O (1 copy) & IDOT (2 copies)				
PID		.00	135.00	Day	\$.00
CCA-Field	Overburden soil investigation				

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Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
PID		.00	135.00	Day	\$.00
FP-Field	Free Product investigation, installation of RW-1 and FP-1 thru FP-3				
PID		15.00	85.00	Day	\$1,275.00
CCA-Field	Proposed overburden removal/replacement & soil abatement				
PID		.00	135.00	Day	\$.00
CCA-Field	Proposed post-abatement groundwater investigation				
Grass Seed		1.00	563.82	item	\$563.82
CCA-Field	Grass Seed, Straw and Slit seeder for reseed soil excavation area				

SUBJECT

Total of Consultant Materials Costs ~~\$2,269.20~~

1,705.38



Stoney Creek - Quincy

Alan Curtiss
1647 Winch Rd
Springfield IL 62707
United States

Room No. : 101
Arrival : 05-16-18
Departure : 05-17-18
Folio No. : 101977
AR No. :
Conf. No. : 24063760
Cashier No. : 409
Custom Ref. :
Page No. : 1 of 1

Company Name :
Group Name :

Date	Description	Charges	Credits
05-16-18	Corporate Rate	89.00	
05-16-18	Hotel/Motel Tax	7.12	
05-16-18	State Hotel Tax	5.34	
05-17-18	Mastercard XXXXXXXXXXXXX6576 XX/XX		101.46
Total Charges		101.46	
Total Credits			101.46
Balance			0.00

Guest Signature: _____ Date: _____

I authorize Stoney Creek to charge my credit card in the manner indicated above.



Stoney Creek - Quincy

Alan Curtiss
1647 Winch Rd
Springfield IL 62707
United States

Room No. : 212
Arrival : 05-10-18
Departure : 05-11-18
Folio No. : 101783
AR No. :
Conf. No. : 24007246
Cashier No. : 609
Custom Ref. :
Page No. : 1 of 1

Company Name :
Group Name :

Date	Description	Charges	Credits
05-10-18	Corporate Rate	89.00	
05-10-18	Hotel/Motel Tax	7.12	
05-10-18	State Hotel Tax	5.34	
05-11-18	Mastercard XXXXXXXXXXXXX6576 XX/XX		101.46
Total Charges		101.46	
Total Credits			101.46
Balance			0.00

Guest Signature: _____ Date: _____

I authorize Stoney Creek to charge my credit card in the manner indicated above.



Stoney Creek - Quincy

Alan Curtiss
1647 Winch Rd
Springfield IL 62707
United States

Room No. : 107
Arrival : 05-08-18
Departure : 05-09-18
Folio No. : 101738
AR No. :
Conf. No. : 23987492
Cashier No. : 409
Custom Ref. :
Page No. : 1 of 1

Company Name :
Group Name :

Date	Description	Charges	Credits
05-08-18	Corporate Rate	89.00	
05-08-18	Hotel/Motel Tax	7.12	
05-08-18	State Hotel Tax	5.34	
05-09-18	Mastercard XXXXXXXXXXXX6576 XX/XX		101.46
Total Charges		101.46	
Total Credits			101.46
Balance			0.00

Guest Signature: _____ Date: _____

I authorize Stoney Creek to charge my credit card in the manner indicated above.

Parkers Gas & More

F0908004P.F

MIXER LUMBER COMPANY
101 S PARK ST
CLAYTON, IL 62324
217-894-6412



LOWE'S HOME CENTERS, LLC
3101 WEST VABASH
SPRINGFIELD, IL 62704 (217) 787-2300



Farm & Home Supply
3030 Wabash St.
Springfield, IL 62704
217-546-6611

VISIT OUR WEBSITE AT WWW.FARMANDHOMESUPPLY.COM

SALE

D: 3506 Store: 0001 Term: 2418
REF#: 00000001
atch #: 038 RRN: 815714004544
/06/18 09:39:21
CODE 0
ans ID: 0606MCFLWBRJY
PBR CODE: 070960
ASTERCARD
*****8160

MOUNT \$3.83

APPROVED

ASTERCARD
D: A0000000041010
R: 00 00 00 80 00
L: E8 00

Thank You
Please Come Again

CUSTOMER COPY

Timberies & Brad nails
for sign repair

SALE

SALES#: S0298001 2394933 TRANS#: 5232967 06-05-18

444961 4-4-12 TREATED #2 GRADE T 19.36
SUBTOTAL: 19.36
TAX: 1.65
INVOICE 02694 TOTAL: 21.01
H/C: 21.01

H/C:XXXXXXXXXXXX8160 AMOUNT:21.01 AUTHCD:017518
CHIP REFID:025802018028 06/05/18 16:09:23
CUSTOMER CODE: parkers
APL. MASTERCARD TUR: 0000008000
RID: A0000000041010 TSI: E800
STORE: 0250 TERMINAL: 02 06/05/18 16:09:55

OF ITEMS PURCHASED: 1
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS



THANK YOU FOR SHOPPING LOWE'S.
SEE REVERSE SIDE FOR RETURN POLICY
STORE MANAGER: JOE NEUBAUER

LOWE'S PRICE MATCH GUARANTEE
FOR MORE DETAILS, VISIT LOWES.COM/PRICEMATCH

* YOUR OPINIONS COUNT! *
* REGISTER FOR A CHANCE TO BE *
* ONE OF FIVE \$300 WINNERS DRAWN MONTHLY! *
* REGISTRESE EN EL SORTEO MENSUAL *
* PARA SER UNO DE LOS CINCO GANADORES DE \$300! *
* REGISTER BY COMPLETING A GUEST SATISFACTION SURVEY *
* WITHIN ONE WEEK AT: www.lowes.com/survey *
* YOUR ID # 02694 0258 156 *
* NO PURCHASE NECESSARY TO ENTER OR WIN. *
* VOID WHERE PROHIBITED. MUST BE 18 OR OLDER TO ENTER. *
* OFFICIAL RULES & WINNERS AT: www.lowes.com/survey *

STORE: 0250 TERMINAL: 02 06/05/18 16:09:55

4x4x12 for sign repair

PROD ID	QTY	UNIT	PRICE	TOTAL
SEED, GCLDS AR BAL ESCUE 50#				
52281074	1	BG	89.98	89.98 t
SEED, KENTUCKY 31 TAL FEED 50#				
52280606	1	BG	69.98	69.98 t
STRAW BALE				
50000011	15	BA	5.90	89.85 t
SUBTOTAL				249.81
Tax 249.81 @ 8.100%				21.23
Tax				21.23
TOTAL				271.04
Store Coupon				21.23
MasterCard				249.81

XXXXXXXXXXXX8160 (Approved)
Authorization #: 093272

06/05/18 09:25:09:01 56350046011
00000001 FARM & HOME VALUED CUSTOMER
INVOICE #: 2302266 W/ID: FREG01B
0A83768A-72D9-443E-9E01-8A41B7003147
3025DB 2.93.6199 TTL ID: 0

Receipt is required for all refunds.
A gift card will be issued for returns
with receipts over 90 days.

All checks purchases require a 14 day
waiting period for refunds.

To submit your F&H E-Rebate, please go to
www.farmandhomesupply.com/rebates

F&H E-Rebates must be submitted online no
later than two weeks after the ad ends.

Visit www.farmandhomesupply.com to browse
and buy from home.



15 straw bales
50 lbs Kentucky 31
50 lbs Premium Fescue
for re-seeding properties



Electronic Filing Received, Clerk's Office 10/23/2020

328 S. Main St
Jacksonville, IL 62650

217-245-4333

www.american-rental-center.com

OPEN CONTRACT 0298145

EMPLOYEE

Caleb M. Wankel
Entered by CMW on 06-05-18

DO NOT PAY FROM THIS CONTRACT

CUSTOMER #	034766	P.O. #		JOB #		DATE OUT	06-05-18
RENTED TO:	Case Co 2701 East Ash St Bl B Springfield, IL 62703	PHONE NUMBER(S)	(217) 670-1916 (217) 000-0000	DRIVER'S LICENSE #	34766	TIME OUT	10:34am
	JOB / EVENT ADDRESS	SAME			DATE IN		

QTY.	EQUIPMENT # DESCRIPTION OF ITEM	Meter Out/In	RENTAL RATES (PER EACH ITEM)						
			Hour	Minimum	Day	Week	4 Weeks	Extended	
	3904-0014			4 HRS					
1	Slit Seeder, Self-propelled A		16.00	64.00	96.00				192.00

AMERICAN RENTAL CENTER
328 S. MAIN ST
JACKSONVILLE, IL 62650
06/05/2018 10:39:55

CREDIT CARD
MC SALE

Card # XXXXXXXXXXXX1854
 Chip Card: MASTERCARD
 AID: A0000000041010
 ATC: 001F
 ARQC: 2265A21BE57178A4
 SEQ #: 6
 Batch #: 58
 INVOICE 6
 Approval Code: 049784
 Entry Method: Chip Read
 Mode: Issuer
 Tax Amount: \$0.00
 Cust Code:

SUB TOTAL	192.00
Damage Waiver	23.04
TAX	0.00
GRAND TOTAL	215.04
-MC	215.04
BALANCE DUE	0.00

DAMAGE WAIVER

Dealer agrees to waive certain damages and loss claims against Customer, with this contract, in consideration of the following:

- A. Customer shall pay a fee of 12.00 % of gross rental charge
- B. Provide a valid certificate of insurance naming the Dealer as an additional insured on the subject equipment. Said insurance policy shall provide the primary coverage for the subject equipment.

***DAMAGE WAIVER DECLINED

I HAVE READ AND I AGREE TO THE CONTRACT TERMS ON THE BACK OF THIS CONTRACT. NO ONE HAS ANY ORAL OR OTHER WRITTEN REPRESENTATIONS OR PROMISES NOT INCLUDED IN THIS CONTRACT. I HEREBY ACKNOWLEDGE RECEIPT OF A COPY OF THIS CONTRACT.

CUSTOMER SIGNATURE

X

YOU ARE CHARGED FOR THE TIME EQUIPMENT IS IN YOUR POSSESSION
Payment 06-05-18 by [MC] 215.04

SALE AMOUNT \$215.04

CUSTOMER COPY

You Need It?
We Rent It!

HOURS:
Equipment Rental
Store Hours
M-F 8-5 Sat 8-12

4.0

OWNER/OPERATOR/P.E. BILLING CERTIFICATION

Owner/Operator and Licensed Professional Engineer/Geologist Billing Certification Form

Under penalty of perjury as defined in Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2], I certify to the following:

- The bills in the attached application for payment are for performing corrective action activities associated with Incident # 951012 reported for the Leaking Underground Storage Tank site located at Address: 101 East Outer Belt Drive
City: Clayton State: IL Zip: 62324
- The bills are for the billing period Dec 1, 2017 through June 30, 2018 and were incurred in conformance with the Environmental Protection Act and 35 Ill. Adm. Code 731, 732, or 734.
- The attached application for payment and all documents submitted with it were prepared under the supervision of the licensed professional engineer or licensed professional geologist and the owner and/or operator whose signatures are set forth below and in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information provided. The information in the attached application for payment is, to the best of my knowledge and belief, true, accurate, and complete.
- The costs for remediating the above-listed incident are correct, are reasonable, and if applicable, were determined in accordance with Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734.
- I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Section 44 of the Environmental Protection Act [415 ILCS 5/44] and Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2].

RECEIVED

Owner/Operator Name: Parker's Gas & More

AUG 16 2018

Authorized Representative*: Ted Parker

IEPA/BOL

Address: 2970 North 2050th Avenue

Phone: _____

City: Clayton

State: IL

Zip: 62324

Signature: Ted Parker

Date: 6-29-18

Subscribed and sworn to before me the 29 day of June, 2018

[Signature]
(Notary Public)

Seal:



need me

L.P.E./L.P.G. Name: Matthew Rives

L.P.E./L.P.G. Illinois Registration No.: 062.069142

L.P.E./L.P.G. Registration Expiration Date: Nov 30, 2019

Company Name: Chase Environmental Group, Inc.

Address: 2701 East Ash

Phone: (217) 670-1916

City: Springfield

State: IL

Zip: 62704

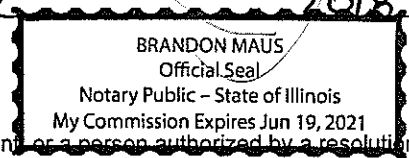
L.P.E./L.P.G. Signature: [Signature]

Date: 6-19-18

Subscribed and sworn to before me the 19 day of June, 2018

[Signature]
(Notary Public)

Seal:



*For a corporation, a principal executive officer of at least the level of vice president or a person authorized by a resolution of the board of directors to sign the applicable document if a copy of the resolution, certified as a true copy by the secretary of the corporation, is submitted with the document.

5.0

PRIVATE INSURANCE AFFIDAVIT AND QUESTIONAIRE

Private Insurance Coverage Questionnaire

This form must be completed in full by all owners or operators, or their authorized representatives, that have a claim for payment from the State of Illinois Underground Storage Tank Fund for the labor, materials, overhead, and profit costs related to the investigation and/or remediation of a Leaking UST site.

- 1. Site Name: Parker's Gas & More
Address: 101 East Outer Belt Drive
City: Clayton State: IL Zip: 62324

- 2. Name of insurance company providing coverage for this Leaking UST site:
NONE

- 3. Amount of coverage provided: \$.00

- 4. Have you or your firm filed a claim against your insurance company for this Leaking UST site?
Yes No
a. If yes, how much is the claim? \$ _____
b. If no, explain why. No Coverage

- 5. Have you or your firm received payment for a claim against your insurance company for this Leaking UST site?
Yes No
a. If yes, how much and when? \$ _____
Date: _____
b. If no, explain why. No Coverage

- 6. Are you going to file a claim against your insurance policy?
Yes No
a. If yes, how much and when? \$ _____
Date: _____
b. If no, explain why. No Coverage

This Illinois EPA is authorized to request this information under the Environmental Protection Act, 415 ILCS 5/1 et seq. (formerly Ill. Rev. Stat. Ch 111-1/2, 1001 et seq.). Disclosure of this information is required. Failure to properly complete this form in its entirety may result in the delay or denial of any payment requested hereunder. This form has been approved by the Forms Management Center.

Private Insurance Affidavit

I, Ted Parker, a duly authorized representative of Parkers Gas & More (owner/operator or firm's name)

hereby certify that Parker's Gas & More (owner/operator or firm's name) does not have private (choose one)

insurance coverage for all or part of the costs related to claim for payment of Parker's Gas & More (owner or firm's name)

investigation or remediation costs for work performed at Parker's Gas & More located at (site name)

101 E. Outer Belt Dr. Clayton, IL 62324 (address)

I, Ted Parker, Owner of Parker's Gas & More (name) (title) (owner/operator or firm's name)

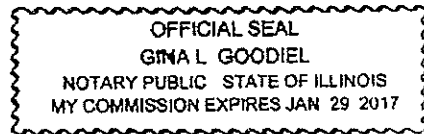
certify that, as of this date, the above information is accurate and complete. Furthermore, I also agree to reimburse the Illinois EPA for any overpayment made by my private insurance company in excess of the deductible amount for each site.

Owner/Operator: Ted Parker - Parker's Gas & More Title: Owner

Signature: Ted Parker Date: 6-2-15

Subscribed and sworn to before me the 2nd day of June, 2015

Gina L Goodiel (Notary Public) Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder. This form has been approved by the Forms Management Center.

6.0

PAYMENT CERTIFICATION FORM

Payment Certification Form

This certification must be included with every application for payment from the UST Fund.

I, Ted Parker, the owner or operator of the Leaking UST(s) for which this application for payment is being submitted, certify that \$ 577,244.80 is the amount being sought in this application for payment, \$ 456,741.29 has already been paid from the Fund for this occurrence, and \$.00 has been sent to the Illinois EPA for payment for this occurrence but has not yet been paid. I further certify that the number of petroleum USTs in Illinois presently owned or operated by the owner or operator, any subsidiary, parent or joint stock company of the owner or operator, and any company owned by any parent, subsidiary or joint stock company of the owner or operator is (check one):

Fewer than 101 [X] 101 or more []

Except for applications for payment associated with Early Action, I certify that a plan for the work included in this application for payment was approved by the Illinois EPA on 5/20/2015; except for applications for payment associated with to 35 Ill. Adm. Code 731, certify that a budget for the work included in this application for payment was approved by the Illinois EPA on 5/20/2015; and certify that the amount sought for payment was expended in conformance with the approved budget and approved plan. I further certify that, if the costs included in this application for payment are approved for payment, the following limitations will not be exceeded:

- 1. Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund for more than \$1,000,000 per occurrence for sites subject to 35 Ill. Adm. Code 731 or 732. (OR) Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund for more than \$1,500,000 per occurrence for sites subject to 35 Ill. Adm. Code 734.
2. Payment will not result in the owner or operator receiving payment of corrective action costs or indemnification costs from the Fund incurred during a calendar year in excess of the following amounts:

For costs incurred in calendar years prior to 2002:

\$1,000,000, if fewer than 101 tanks are owned or operated in Illinois.
\$2,000,000, if 101 or more tanks are owned or operated in Illinois.

For costs incurred in calendar years 2002 and later:

\$2,000,000, if fewer than 101 tanks are owned or operated in Illinois.
\$3,000,000, if 101 or more tanks are owned or operated in Illinois.

Owner/Operator Name: Parker's Gas & More

Authorized Representative*: Ted Parker

Title: Owner

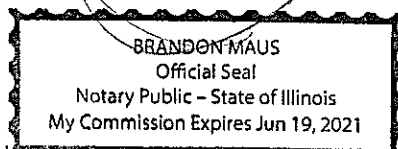
Signature: Ted Parker

Date: 6-29-18

Subscribed and sworn to before me the 29 day of June, 2018. (This certification must be notarized when the certification is signed.)

[Signature] (Notary Public)

Seal:



need new

*For a corporation, a principal executive officer of at least the level of vice president, or a person authorized by a resolution of the board of directors to sign the applicable document if a copy of the resolution, certified as a true copy by the secretary of the corporation, is submitted with the document.

Parker's Gas & More
Clayton, Illinois

LPC # 0010105006
IEMA #951012

7.0

W-9 FORM

Form **W-9**
(Rev. December 2014)
Department of the Treasury
Internal Revenue Service

**Request for Taxpayer
Identification Number and Certification**

Give Form to the requester. Do not send to the IRS.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Ted Parker

2 Business name/disregarded entity name, if different from above
Parker's Gas & More

3 Check appropriate box for federal tax classification; check only one of the following seven boxes:
 Individual/sole proprietor or single-member LLC
 C Corporation
 S Corporation
 Partnership
 Trust/estate
 Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____
 Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.
 Other (see Instructions) ▶ _____

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
 Exempt payee code (if any) _____
 Exemption from FATCA reporting code (if any) _____
(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.)
2970 N. 2050th Ave

6 City, state, and ZIP code
Clayton, IL 62324

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number
346-64-8908

or
Employer identification number

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person  Date **6-2-15**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/irv9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued).
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



Waste Management • Remediation • Drilling Services

0010105006-Adams County
Parker's Gas & More Inc.
Incident#951012
Leaking UST Technical File

August 21, 2018

Illinois Environmental Protection Agency
Bureau of Land
LUST Unit
P.O. Box 19276
Springfield, IL. 62794-9276

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IEPA-BOL
PERMIT SECTION

RE: LPC# 0010105006 – Adams County
Parker's Gas n' More / Clayton
101 East Outer Belt Drive
IEMA #951012

To whom it may concern:

Enclosed please find one (1) original and one (1) copy of the Corrective Action Progress Report for the above referenced site.

Should you have any questions or need additional information, please contact Chase Environmental Group, Inc. at 217-670-1916.

Sincerely,

Chase Environmental Group, Inc.

Alan M. Curtiss, PG
Sr. Project Manager

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 03 2018
REVIEWER JRM

RECEIVED

AUG 23 2018

IEPA-BOL
PERMIT SECTION

Progress Report

Parker's Gas and More / Clayton
LPC #0010105006
LUST Incident #951012

Soil abatement activities proposed in the Corrective Action Plan (CAP) approved by the Illinois Environmental Protection Agency (Agency) on May 20, 2015 were completed between May 1, 2018 and June 06, 2018. During this period 7,763.5 tons of petroleum impacted soil resulting from IEMA #951012 were excavated and transported to Hickory Ridge Landfill located in Baylis, Illinois for disposal. The resulting excavation was backfilled with 7221.52 tons of fill screenings supplied by Central Stone Co.'s Florence Quarry located near Pittsfield, Illinois. 3,262.5 tons of clean overburden was temporarily stockpiled and returned to the excavation. To facilitate re-establishment of vegetation, 125.65 tons of soil was also transported to the site, spread out and re-seeded. Using the Agency's preferred 1.5 tons per cubic yard conversion factor, 5,175.67 yds³ of contaminated soil were abated, 2175 yds³ of overburden was returned to the excavation and 5244.91 yds³ of backfill materials were placed in the resulting excavation during the May/June 2018 soil abatement activities. All volumes are less than the soil approved for abatement, stockpiling and backfill volumes proposed and approved in the May 20, 2015 CAP & Budget. The May/June 2018 soil abatement activities included the abatement of accessible soil on-site exceeding the applicable Tier 2 objectives as well as off-site soil exceeding Tier 1 objectives.

A total of 59 soil samples were collected from the walls and floor of the excavations during the July/August 2016 soil abatement activities. The soil samples were collected on 20' intervals (or portions thereof when applicable) and analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and poly nuclear aromatics (PNAs). Results indicate that the Corrective Action mitigation was successful in removing accessible soil contamination exceeding applicable objectives as proposed in the May 2015 CAP. Chase will prepare a Highway Authority Agreement (HAA) with IDOT to mitigate residual soil contamination present in the IDOT R-O-W of Outer Belt Drive (IL Route 24).

Other activities proposed include replacement of 5,700 ft² of asphalt surface 4 inches thick. In the event Chase cannot locate a contractor to replace the pavement for the Agency's allotted Subpart H rate, the pavement replacement will be formally bid and a Budget amendment submitted. The Agency also approved replacement of eight (8) monitoring wells destroyed during Corrective Action. These well will be completed and sampled during August or September of 2018 (approximately 90 days following completion of soil abatement activities), as proposed. Once the post-abatement groundwater sampling event is complete, results will be used to update contaminant modeling distances and prepare the aforementioned IDOT HAA.

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AUG 23 2018

IEPA-BOL⁰³⁶⁸
PERMIT SECTION

Analytical results relative to the soil samples collected during the May/June 2018 soil abatement activities are summarized in the attached Table 1. Soil sample locations and limits from the May/June 2018 excavation are identified in the attached Figure 1. Additional supporting documentation is provided in this Progress Report as listed below.

Appendices:

- A- Photographic Documentation
- B- Laboratory Reports, Certifications,
& Chain of Custody Forms
- C- Manifests of Soil Disposal
- D- Scale Tickets of Backfill Materials

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	MTBE
Tier 1 objectives	--	--	0.03	13	12	5.6	0.32
CA-1	10'	5/2/18	ND	ND	ND	ND	ND
CA-2	16'	5/2/18	ND	ND	ND	ND	0.0183
CA-3	10'	5/2/18	ND	ND	ND	ND	0.0719
CA-4	10'	5/2/18	2.46	5.41	9.68	31.9	0.222
CA-5	10'	5/2/18	1.67	0.295	0.0179	0.249	<0.215
CA-6	10'	5/2/18	ND	ND	ND	ND	0.0751
CA-7	10'	5/2/18	ND	ND	ND	ND	ND
CA-8	16'	5/2/18	ND	0.00766	0.00715	ND	ND
CA-9	16'	5/2/18	ND	ND	ND	ND	0.0577
CA-10	16'	5/2/18	1.09	0.0582	ND	0.0277	0.567
CA-11	16'	5/3/18	ND	0.00521	0.00884	0.0228	<0.0604
CA-12	10'	5/3/18	3.39	2.93	0.415	13.3	0.250
CA-13	10'	5/4/18	ND	ND	ND	ND	ND
CA-14	10'	5/4/18	ND	ND	ND	0.0732	0.0352
CA-15	10'	5/4/18	ND	ND	ND	ND	0.0536
CA-16	16'	5/4/18	ND	0.00946	0.00832	ND	ND
CA-17	16'	5/4/18	ND	ND	ND	ND	0.151
CA-18	10'	5/7/18	ND	ND	ND	ND	ND
CA-19	16'	5/8/18	ND	ND	ND	ND	0.00783
CA-20	16'	5/8/18	ND	0.00541	0.00924	ND	0.00623
Csat Limit⁽¹⁾	--	--	580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 Ill. Adm. Code 742 Appendix A Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	MTBE
Tier 1 objectives	--	--	0.03	13	12	5.6	0.32
CA-21	10'	5/8/18	0.0662	0.00697	0.0284	0.0411	ND
CA-22	16'	5/8/18	5.42	5.91	16.0	28.8	0.0183
CA-23	16'	5/8/18	1.49	0.49	0.271	2.4	0.272
CA-24	16'	5/9/18	0.00601	ND	ND	0.0134	0.730
CA-25	10'	5/9/18	2.09	4.93	1.13	20.3	ND
CA-26	16'	5/10/18	0.0796	0.515	0.512	2.67	ND
CA-27	16'	5/10/18	0.0611	0.146	0.156	1.75	0.0151
CA-28	16'	5/10/18	6.06	24.0	ND	ND	0.0607
CA-29	10'	5/10/18	0.334	1.49	ND	7.49	ND
CA-30	10'	5/10/18	0.0503	0.0273	0.0073	0.0868	ND
CA-31	10'	5/10/18	ND	ND	ND	ND	0.00729
CA-32	10'	5/11/18	ND	ND	ND	ND	ND
CA-34	10'	5/14/18	0.212	0.0109	0.118	0.0455	0.225
CA-35	16'	5/14/18	0.59	ND	0.681	ND	0.382
CA-36	16'	5/14/18	0.107	0.0081	0.1	0.0322	0.212
CA-37	10'	5/15/18	0.0854	0.0354	0.0065	0.156	ND
CA-38	10'	5/15/18	ND	ND	ND	ND	ND
CA-39	16'	5/16/18	0.011	0.019	0.037	0.086	0.23200
CA-40	16'	5/16/18	0.00546	ND	0.00778	ND	0.102
Csat Limit⁽¹⁾	--	--	580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 Ill. Adm. Code 742 Appendix A, Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	MTBE
Tier 1 objectives	--	--	0.03	13	12	5.6	0.32
CA-41	10'	5/16/18	3.77	6.45	18.8	33.1	0.394
CA-42	16'	5/16/18	3.31	5.67	8.65	27.8	0.208
CA-43	10'	5/16/18	2.02	1.32	2.22	6.14	0.283
CA-44	6'	5/16/18	ND	ND	ND	ND	ND
CA-45	10'	5/17/18	ND	ND	ND	ND	ND
CA-46	6'	5/17/18	ND	ND	ND	ND	ND
CA-47	6'	5/17/18	0.195	0.613	0.645	8.19	ND
CA-48	16'	5/17/18	1.47	13.2	18.2	101	ND
CA-49	10'	5/17/18	0.119	0.143	0.172	2.46	ND
CA-50	10'	5/17/18	0.24	0.0876	0.0183	0.0421	0.0923
CA-51	6'	5/17/18	ND	0.00589	0.00678	0.0356	ND
CA-52	6'	5/17/18	0.044	0.160	0.0051	0.136	0.0405
CA-53	10'	5/17/18	0.00428	0.00724	0.00817	ND	ND
CA-54	6'	5/18/18	ND	ND	ND	ND	ND
CA-55	10'	5/18/18	ND	ND	ND	ND	ND
CA-56	6'	5/18/18	ND	ND	ND	ND	ND
CA-57	6'	5/18/18	ND	ND	ND	ND	ND
CA-58	10'	5/18/18	ND	ND	ND	ND	ND
CA-59	6'	5/18/18	ND	ND	ND	ND	ND
CA-60	6'	5/18/18	ND	ND	ND	ND	ND
Csat Limit⁽¹⁾	--	--	580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 Ill. Adm. Code 742 Appendix A.Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location	Depth	Date	Benzene	Ethylbenzene	Toluene	Total Xylene	MTBE
Tier 1 objectives	--	--	0.03	13	12	5.6	0.32
CA-41	10'	5/16/18	3.77	6.45	18.8	33.1	0.394
CA-42	10'	5/16/18	3.31	5.67	8.65	27.8	0.208
CA-43	10'	5/16/18	2.02	1.32	2.22	6.14	0.283
CA-44	6'	5/16/18	ND	ND	ND	ND	ND
CA-45	6'	5/17/18	ND	ND	ND	ND	ND
CA-46	6'	5/17/18	ND	ND	ND	ND	ND
CA-47	6'	5/17/18	0.195	0.613	0.645	8.19	ND
CA-48	6'	5/17/18	1.47	13.2	18.2	101	ND
CA-49	10'	5/17/18	0.119	0.143	0.172	2.46	ND
CA-50	10'	5/17/18	0.24	0.0876	0.0183	0.0421	0.0923
CA-51	6'	5/17/18	ND	0.00589	0.00678	0.0356	ND
CA-52	6'	5/17/18	0.044	0.160	0.0051	0.136	0.0405
CA-53	10'	5/17/18	0.00428	0.00724	0.00817	ND	ND
CA-54	6'	5/18/18	ND	ND	ND	ND	ND
CA-55	10'	5/18/18	ND	ND	ND	ND	ND
CA-56	6'	5/18/18	ND	ND	ND	ND	ND
CA-57	6'	5/18/18	ND	ND	ND	ND	ND
CA-58	10'	5/18/18	ND	ND	ND	ND	ND
CA-59	6'	5/18/18	ND	ND	ND	ND	ND
CA-60	6'	5/18/18	ND	ND	ND	ND	ND
Csat Limit⁽¹⁾	--	--	580	150	290	110	11000

Bold - Exceeds Tier 1 Residential RO

Shading - Exceeds Soil Saturation Limit (Csat)

(1) - Derived from 35 Ill. Adm. Code 742 Appendix A.Table A (For the Soil Component of the Groundwater Ingestion Exposure Route)

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1 continued
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location Date	Tier 1 Objectives	CA-1	CA-2	CA-3	CA-4	CA-5	CA-6	CA-7	CA-8	CA-9	CA-10	CA-11	CA-12
		5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/3/18
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO
ND - Not Detected

Location Date	Tier 1 Objectives	CA-13	CA-14	CA-15	CA-16	CA-17	CA-18	CA-19	CA-20				
		5/4/18	5/4/18	5/4/18	5/4/18	5/4/18	5/7/18	5/8/18	5/8/18				
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND				
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND				
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND				
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND				
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND				
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND				
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND				
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND				
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND				

Bold - Exceeds Tier 1 Residential RO
ND - Not Detected

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1 continued
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location Date	Tier 1 Objectives	CA-21	CA-22	CA-23	CA-24	CA-25	CA-26	CA-27	CA-28	CA-29	CA-30	CA-31	CA-32
		5/8/18	5/8/18	5/8/18	5/9/18	5/9/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/3/18
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	0.773	0.472	ND	ND	ND
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO
ND - Not Detected

Location Date	Tier 1 Objectives	CA-34	CA-35	CA-36	CA-37	CA-38	CA-39	CA-40					
		5/14/18	5/14/18	5/14/18	5/15/18	5/15/18	5/16/18	5/16/18					
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND					
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND					
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND					
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND					
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND					
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND					
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND					
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND					
Chrysene	88	ND	ND	ND	ND	ND	ND	ND					
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND					
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND					
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND					
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND					
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND					
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND					
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND					

Bold - Exceeds Tier 1 Residential RO
ND - Not Detected

Parker's Gas and More
LUST Incident #95-1012
Clayton, IL

TABLE 1 continued
Corrective Action Soil Analytical Summary

results reported in mg/kg

Location Date	Tier 1 Objectives	CA-41	CA-42	CA-43	CA-44	CA-45	CA-46	CA-47	CA-48	CA-49	CA-50	CA-51	CA-52
		5/16/18	5/16/18	5/16/18	5/16/18	5/17/18	5/17/18	5/17/18	5/17/18	5/17/18	5/17/18	5/17/18	5/17/18
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.8	ND	0.542	ND	ND	ND	ND	0.387	ND	ND	ND	ND	ND
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

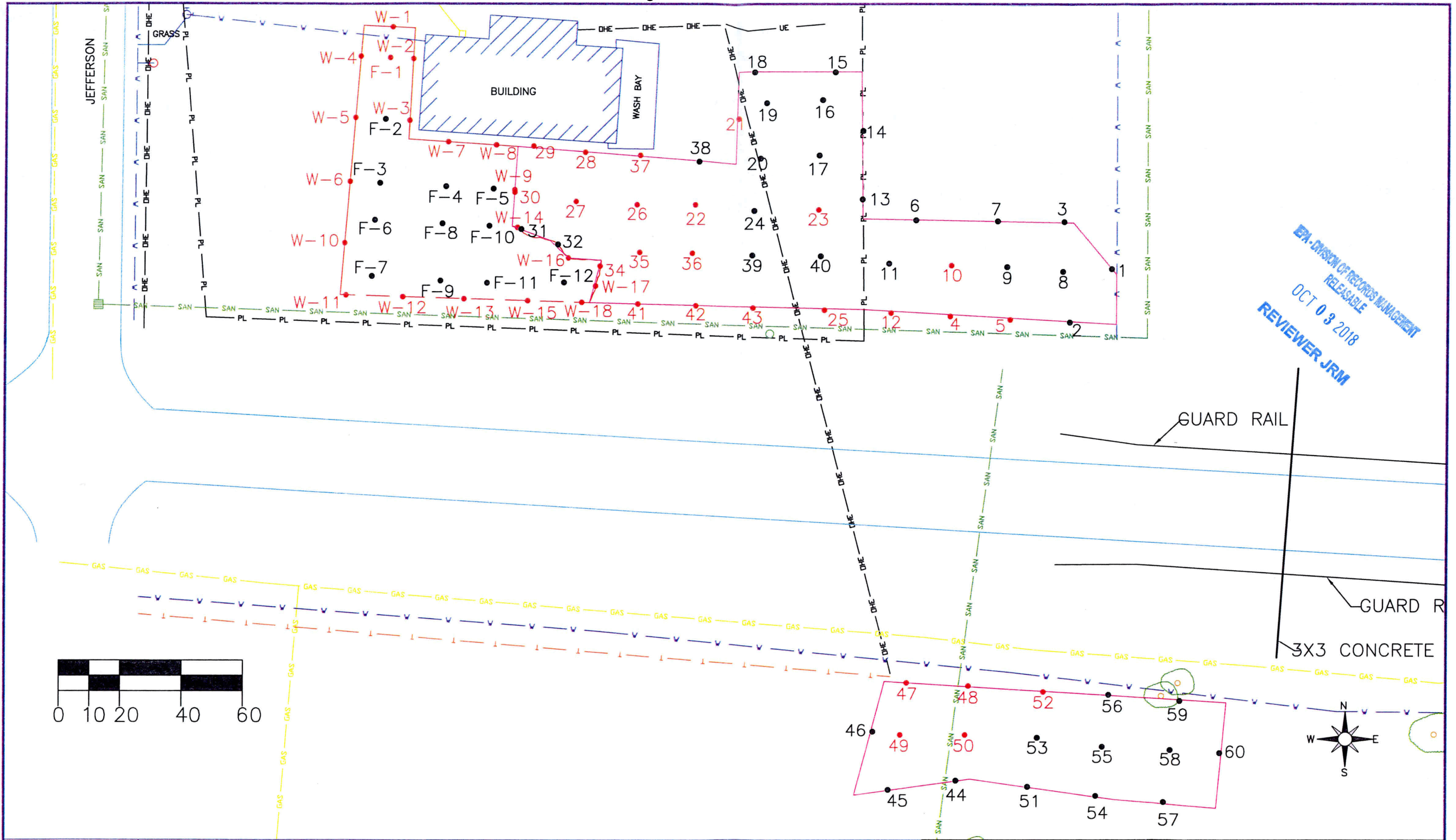
Bold - Exceeds Tier 1 F Bold - Exceed Bold - Exceeds Tier 1 Residential RO

ND - Not Detected

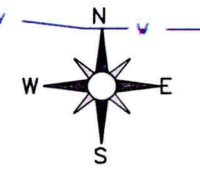
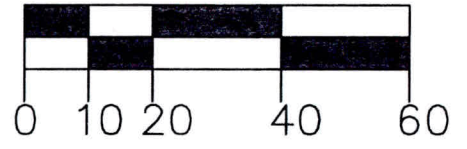
Location Date	Tier 1 Objectives	CA-53	CA-54	CA-55	CA-56	CA-57	CA-58	CA-59	CA-60				
		5/17/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18	5/18/18			
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND				
Acenaphthylene	85	ND	ND	ND	ND	ND	ND	ND	ND				
Anthracene	12000	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(ghi)perylene	2300	ND	ND	ND	ND	ND	ND	ND	ND				
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	ND	ND				
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND				
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND				
Fluoranthene	3100	ND	ND	ND	ND	ND	ND	ND	ND				
Fluorene	3100	ND	ND	ND	ND	ND	ND	ND	ND				
Indeno(1,2,3-cd)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND				
Naphthalene	1.8	ND	ND	ND	ND	ND	ND	ND	ND				
Phenanthrene	210	ND	ND	ND	ND	ND	ND	ND	ND				
Pyrene	2300	ND	ND	ND	ND	ND	ND	ND	ND				

Bold - Exceeds Tier 1 Residential RO

ND - Not Detected



EPA DIVISION OF RECORDS MANAGEMENT
 RELEASABLE
 OCT 03 2018
 REVIEWER JRM



LEGEND

- DHE — OVERHEAD ELECTRIC
- PL — PROPERTY LINE
- GAS — GAS LINE
- W — WATER LINE
- SAN — SEWER LINE
- UT — UNDERGROUND TELEPHONE LINE

LABELS

- EXCAVATION LIMITS
- CHASE PROPOSED EXCAVATION LIMITS

SYMBOLS

- ⊕ LIGHT POLE
- ⊕ POWER POLE
- ⊕ SOIL BORING—BH
- ⊕ MONITORING WELL—MW
- ⊕ MONITORING WELL AND SOIL BORING—MW BH
- SAMPLES WITH PARENTHESES () ARE WATER SAMPLES
- EARLY ACTION WALL SAMPLE LOCATION— W-
- EARLY ACTION FLOOR SAMPLE LOCATION— F-
- TREE

Parker's Gas & More
 101 East Outer Belt Drive
 Clayton, IL 62324
 LPC #0010105006
 LUST Incident #951012
RED FONT > TIER 1 ROs

PROJECT NAME: PARKER'S GAS

DRAWN BY: MBS	PROJECT NO.: F0908004
REVISED BY: MDR	TITLE: CA Excavation Sample Location
DATE: Aug 2018	DWG. NAME:
SCALE: 1"=30'	DWG. NO.: Figure 1

Appendix A
Photographic Documentation



1. The first phase of soil excavation and removal began on the offsite property east of the subject site. As proposed, the upper 5 feet of topsoil was temporarily stockpiled to provide access to underlying contaminated soils. After the soils were removed and the excavation partially backfilled, the clean topsoil was re-used to bring the site to grade. The surface was later re-seeded.



2. The excavation progressed westward along the IDOT right-of-way to the property boundary, then northward onsite. Clean backfill was continuously brought in and graded using a skidsteer to prevent the excavation from becoming too large or unstable.



3. The second phase of the excavation began in front of the station building then continued eastward and southward until it joined the first excavation phase or reached the IDOT right-of-way of IL Route 24.



4. Contaminated soils were loaded onto semi-trucks for transportation to the Hickory Ridge Landfill, Bayliss, IL.



5. The final (third) phase of soil excavation began off-site on the south side of IL Route 24. Surficial soils were temporarily stockpiled while contaminated soils were loaded on semi-trucks for disposal. The topsoil was later used to re-grade and seed the area.



6. Once the excavation was complete the remaining backfill was delivered and the stockpiled topsoil spread to grade. Left side: edge of former station property; right: Offsite property restored to grade.

Appendix B
Laboratory Analytical Reports



PDC Laboratories, Inc.

Friday, May 18, 2018

Matt Rives
Chase Environmental
2701 E Ash
Springfield, IL 62704
TEL: (217) 670-1916
FAX: (217) 670-1682

RE: F0908004 / Parkers Gas & More Clayton, IL

PDC WO: 18E0317

PDC Laboratories, Inc. received 17 sample(s) on 5/11/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

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If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kristen Potter", written in a cursive style.

Kristen A. Potter
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-1
 Collection Date: 5/2/18 6:00

Lab Order: 18E0317
 Lab ID: 18E0317-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
*Ethylbenzene	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
*Toluene	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
*Xylenes (total)	U	0.0147		mg/Kg dry	1	5/11/18 13:00	5/12/18 2:40	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Acenaphthylene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Anthracene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0769		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Chrysene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0769		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Fluoranthene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Fluorene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Naphthalene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Phenanthrene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
*Pyrene	U	0.384		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:08	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	78.4	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-2
 Collection Date: 5/2/18 6:30

Lab Order: 18E0317
 Lab ID: 18E0317-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00468		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:01	SW8260B R2	JKK
*Ethylbenzene	U	0.00468		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:01	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0183	0.00468		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:01	SW8260B R2	JKK
*Toluene	U	0.00468		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:01	SW8260B R2	JKK
*Xylenes (total)	U	0.0140		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:01	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Acenaphthylene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Anthracene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Chrysene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Fluorene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Naphthalene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Phenanthrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
*Pyrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 4:44	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.5	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-3
 Collection Date: 5/2/18 8:00

Lab Order: 18E0317
 Lab ID: 18E0317-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Ethylbenzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0719	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Toluene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
*Xylenes (total)	U	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:28	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Acenaphthylene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Anthracene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0708		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Chrysene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0708		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Fluoranthene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Fluorene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Naphthalene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Phenanthrene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
*Pyrene	U	0.354		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:20	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.4	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-4
 Collection Date: 5/2/18 8:00

Lab Order: 18E0317
 Lab ID: 18E0317-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	2.46	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	JKK
*Ethylbenzene	5.41	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	JKK
*Methyl tert-butyl ether	0.222	0.153		mg/Kg dry	25	5/14/18 17:05	5/15/18 18:59	SW8260B R2	JKK
*Toluene	9.68	0.487		mg/Kg dry	100	5/16/18 8:00	5/16/18 21:48	SW8260B R2	JKK
*Xylenes (total)	31.9	1.46		mg/Kg dry	100	5/16/18 8:00	5/16/18 21:48	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Acenaphthylene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Anthracene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(g,b,i)perylene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Chrysene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0740		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Fluoranthene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Fluorene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Naphthalene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Phenanthrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
*Pyrene	U	0.370		mg/Kg dry	1	5/14/18 10:05	5/15/18 5:58	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.0	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-5
 Collection Date: 5/2/18 9:00

Lab Order: 18E0317
 Lab ID: 18E0317-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	1.67	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Ethylbenzene	0.295	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Methyl tert-butyl ether	0.438	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:26	SW8260B R2	JKK
*Toluene	0.0179	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:55	SW8260B R2	JKK
*Xylenes (total)	0.249	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 4:55	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Acenaphthylene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Anthracene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0712		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Chrysene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0712		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Fluoranthene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Fluorene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Naphthalene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Phenanthrene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
*Pyrene	U	0.356		mg/Kg dry	1	5/14/18 10:05	5/15/18 6:36	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-6
 Collection Date: 5/2/18 9:30

Lab Order: 18E0317
 Lab ID: 18E0317-06
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Ethylbenzene	U	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0751	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Toluene	U	0.00501		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
*Xylenes (total)	U	0.0150		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:22	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Acenaphthylene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Anthracene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0692		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Chrysene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0692		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Fluoranthene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Fluorene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Naphthalene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Phenanthrene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
*Pyrene	U	0.346		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:16	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-7
 Collection Date: 5/2/18 11:00

Lab Order: 18E0317
 Lab ID: 18E0317-07
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00469		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
*Ethylbenzene	U	0.00469		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00469		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
*Toluene	U	0.00469		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
*Xylenes (total)	U	0.0141		mg/Kg dry	1	5/11/18 13:00	5/12/18 5:48	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Acenaphthylene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Anthracene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0746		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Chrysene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0746		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Fluoranthene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Fluorene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Naphthalene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Phenanthrene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
*Pyrene	U	0.373		mg/Kg dry	1	5/14/18 10:05	5/15/18 7:57	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-8
 Collection Date: 5/2/18 11:30

Lab Order: 18E0317
 Lab ID: 18E0317-08
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00397		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
*Ethylbenzene	0.00766	0.00397		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00397		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
*Toluene	0.00715	0.00397		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
*Xylenes (total)	U	0.0119		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:15	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Acenaphthylene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Anthracene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0651		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Chrysene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0651		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Fluoranthene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Fluorene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Naphthalene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Phenanthrene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
*Pyrene	U	0.326		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:23	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	88.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-9
 Collection Date: 5/2/18 13:30

Lab Order: 18E0317
 Lab ID: 18E0317-09
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JJK
*Ethylbenzene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JJK
*Methyl tert-butyl ether	0.0577	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JJK
*Toluene	U	0.00441		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JJK
*Xylenes (total)	U	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 6:42	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Acenaphthylene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Anthracene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0687		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Chrysene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0687		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Fluoranthene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Fluorene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Naphthalene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Phenanthrene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
*Pyrene	U	0.344		mg/Kg dry	1	5/14/18 13:52	5/15/18 2:58	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	84.1	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-10
 Collection Date: 5/2/18 13:30

Lab Order: 18E0317
 Lab ID: 18E0317-10
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	1.09	0.158		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:54	SW8260B R2	JKK
*Ethylbenzene	0.0582	0.00489		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	JKK
*Methyl tert-butyl ether	0.567	0.158		mg/Kg dry	25	5/14/18 8:00	5/14/18 14:54	SW8260B R2	JKK
*Toluene	U	0.00489		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	JKK
*Xylenes (total)	0.0277	0.0147		mg/Kg dry	1	5/11/18 13:00	5/12/18 7:09	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Acenaphthylene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Anthracene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0754		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Chrysene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0754		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Fluoranthene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Fluorene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Naphthalene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Phenanthrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
*Pyrene	U	0.377		mg/Kg dry	1	5/14/18 13:52	5/15/18 3:33	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.3	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-11
 Collection Date: 5/3/18 11:00

Lab Order: 18E0317
 Lab ID: 18E0317-11
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
*Ethylbenzene	0.00521	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
*Methyl tert-butyl ether	0.181	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
*Toluene	0.00884	0.00478		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
*Xylenes (total)	0.0228	0.0143		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:28	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Acenaphthylene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Anthracene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0690		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Chrysene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0690		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Fluoranthene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Fluorene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Naphthalene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Phenanthrene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
*Pyrene	U	0.345		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:04	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.9	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-12
 Collection Date: 5/3/18 13:00

Lab Order: 18E0317
 Lab ID: 18E0317-12
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	3.39	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	JKK
*Ethylbenzene	2.93	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	JKK
*Methyl tert-butyl ether	0.250	0.00448		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:03	SW8260B R2	JKK
*Toluene	0.415	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	JKK
*Xylenes (total)	13.3	0.460		mg/Kg dry	25	5/14/18 8:00	5/14/18 15:51	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Acenaphthylene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Anthracene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0713		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Chrysene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0713		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Fluoranthene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Fluorene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Naphthalene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Phenanthrene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
*Pyrene	U	0.357		mg/Kg dry	1	5/14/18 13:52	5/15/18 12:35	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.6	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-13
 Collection Date: 5/4/18 6:30

Lab Order: 18E0317
 Lab ID: 18E0317-13
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JJK
*Ethylbenzene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JJK
*Methyl tert-butyl ether	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JJK
*Toluene	U	0.00439		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JJK
*Xylenes (total)	U	0.0132		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:30	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Acenaphthylene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Anthracene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0724		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Chrysene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0724		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Fluoranthene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Fluorene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Phenanthrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
*Pyrene	U	0.362		mg/Kg dry	1	5/14/18 13:52	5/17/18 18:56	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.2	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-14
 Collection Date: 5/4/18 8:00

Lab Order: 18E0317
 Lab ID: 18E0317-14
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00478		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	JKK
*Ethylbenzene	U	0.00478		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0352	0.00478		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	JKK
*Toluene	U	0.00478		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	JKK
*Xylenes (total)	0.0732	0.0144		mg/Kg dry	1	5/11/18 13:00	5/12/18 8:57	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Acenaphthylene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Anthracene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(g,b,i)perylene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0731		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Chrysene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0731		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Fluorene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Naphthalene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Phenanthrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
*Pyrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 13:37	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.7	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-15
 Collection Date: 5/4/18 9:00

Lab Order: 18E0317
 Lab ID: 18E0317-15
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00420		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Ethylbenzene	U	0.00420		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0536	0.00420		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Toluene	U	0.00420		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
*Xylenes (total)	U	0.0126		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:24	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Acenaphthylene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Anthracene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0727		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Chrysene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0727		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Fluoranthene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Fluorene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Naphthalene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Phenanthrene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
*Pyrene	U	0.364		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:07	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.7	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-16
 Collection Date: 5/4/18 12:00

Lab Order: 18E0317
 Lab ID: 18E0317-16
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00384		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Ethylbenzene	0.00946	0.00384		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00384		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Toluene	0.00832	0.00384		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
*Xylenes (total)	U	0.0115		mg/Kg dry	1	5/11/18 13:00	5/12/18 9:51	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Acenaphthylene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Anthracene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0634		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Chrysene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0634		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Fluoranthene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Fluorene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Naphthalene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Phenanthrene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
*Pyrene	U	0.317		mg/Kg dry	1	5/14/18 13:52	5/15/18 14:38	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	87.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-17
 Collection Date: 5/4/18 14:00

Lab Order: 18E0317
 Lab ID: 18E0317-17
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	JJK
*Ethylbenzene	U	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	JJK
*Methyl tert-butyl ether	0.151	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	JJK
*Toluene	U	0.00450		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	JJK
*Xylenes (total)	U	0.0135		mg/Kg dry	1	5/14/18 8:00	5/14/18 22:56	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Acenaphthylene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Anthracene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0655		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Chrysene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0655		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Fluoranthene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Fluorene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Naphthalene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Phenanthrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
*Pyrene	U	0.327		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:09	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	88.2	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental

Project: F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0317

Notes and Definitions

- S Spike recovery outside acceptance limits.
- R RPD outside acceptance limits.
- I Matrix interference.
- CI Analyte result confirmed by second analysis.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago, IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9690
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client		Chase Environmental Group, Inc.					Analysis and/or Method Requested										Reporting										
Address		2701 East Ash St., Bldg. B					BTEX / MTBE PNA										<input type="checkbox"/> CCDD <input type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial										
City, State, Zip Code		Springfield, IL 62703															<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F										
Phone / Facsimile		217-670-1916															<input type="checkbox"/> Residential <input type="checkbox"/> Industrial										
Project Name / Number		Parker's Gas & More / F0908004															Sampler Comments										
Project Location		Clayton, IL																									
P.O. # or Invoice To		Client																									
Contact Person		Matt Rives 217-851-1404																									
Sample Description	Sampling		Matrix Code	Preserv. Code	No. of Containers	Sample Type																					
	Date	Time				Comp	Grab																				
CA-1	5-2-18	6:00	S	5	4		X																				
CA-2	5-2-18	6:30																									
CA-3	5-2-18	8:00																									
CA-4	5-2-18	8:30																									
CA-5	5-2-18	9:00																									
CA-6	5-2-18	9:30																									
CA-7	5-2-18	11:00																									
CA-8	5-2-18	11:30																									
CA-9	5-2-18	13:00																									
CA-10	5-2-18	13:30																									
CA-11	5-3-18	11:00																									
CA-12	5-3-18	13:00																									
Matrix Code	A - Aqueous		DW - Drinking Water		GW - Ground Water		NA - Non-Aqueous Liquid			S - Solid		O - Oil		X - Other (Specify)													
Preservative Code	D - None		1 - HCl		2 - H2SO4		3 - HNO3			4 - NaOH		5 - 5035 Ka		X - Other (Specify)													
Relinquished By			Date		Time		Received By			Date		Time		Method of Shipment													
[Signature]			5-11-18		11:10		[Signature]			5-11-18		11:10		[Signature]													
General Instructions:							Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			QC Level		On wet ice?		Temperature (°C)													
							Date Required:			<input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		0.8													

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Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste. 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client: Chase Environmental Group, Inc.		Analysis and/or Method Requested										Reporting										
Address: 2701 East Ash St., Bldg. B		BTEX / MTBE PNA	PNA									<input type="checkbox"/> CCDD <input type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial										
City, State, Zip Code: Springfield, IL 62703												<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F										
Phone / Facsimile: 217-670-1916												<input type="checkbox"/> Residential <input type="checkbox"/> Industrial										
Project Name / Number: Parker's Gas & More / F0908004												Sampler Comments										
Project Location: Clayton, IL																						
P.O. for Invoice To: Client		Contact Person: Matt Rives		217-851-1404																		
Sample Description	Sampling		Matrix Code	Preserv Code	No. of Containers	Sample Type																
	Date	Time				Comp	Grab															
CA-13	5-4-18	6:30	S	5	4		X	X	X	X												
CA-14	5-4-18	8:00																				
CA-15	5-4-18	9:00																				
CA-16	5-4-18	12:00																				
CA-17	5-4-18	14:00																				
Matrix Code		A - Aqueous		DW - Drinking Water		GW - Ground Water		NA - Non-Aqueous Liquid		S - Solid		O - Oil		X - Other (Specify)								
Preservative Code		0 - None		1 - HCl		2 - H2SO4		3 - HNO3		4 - NaOH		5 - 5035 Kit		X - Other (Specify)								
Requisitioned By:		Date: 5-11-18		Time: 11:10		Received By:		Date: 5-11-18		Time: 11:10		Method of Shipment: Hand										
Special Instructions:		Temperature: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		QC Level: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4		On wet ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature (°C): 0.8														

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Copies: White - Client / Yellow - PAS, Inc. / Pink - Sampler
 PAS COC - Chemical



Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

**Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
Site Name: Parker's Gas & More / Clayton
Site Address (Not a P.O. Box): 101 East Outer Belt Drive
City: Clayton County: Adams ZIP Code: 62324

Leaking UST Technical File

B. Sample Collector

I certify that:

- 1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
- 2. Chain-of-custody procedures were followed in the field.
- 3. Sample integrity was maintained by proper preservation.
- 4. All samples were properly labeled.

VR
(Initial)
MR
(Initial)
MR
(Initial)
MR
(Initial)

C. Laboratory Representative

I certify that:

- 1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
- 2. Sample integrity was maintained by proper preservation.
- 3. All samples were properly labeled.
- 4. Quality assurance/quality control procedures were established and carried out.
- 5. Sample holding times were not exceeded.

KD
(Initial)
KD
(Initial)
KD
(Initial)
KD
(Initial)
KD
(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

KP
(Initial)
KP
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matthew Rives
Title Engineer
Company Chase Environmental Inc.
Address 2701 East Ash St. Bldg. B
City Springfield
State IL
Zip Code 62703
Phone 2176701916
Signature [Signature]
Date 5/10/18

Laboratory Representative

Name Kristen Potter
Title Proj Manager
Company ~~Prairie Analytical Systems, Inc.~~ PDC
Address 1210 Capital Airport Drive
City Springfield
State IL
Zip Code 62702
Phone 217-753-1148
Signature [Signature]
Date 5/18/18



PDC Laboratories, Inc.

Friday, May 18, 2018

Matt Rives
Chase Environmental
2701 E Ash
Springfield, IL 62704
TEL: (217) 670-1916
FAX: (217) 670-1682

RE: F0908004 / Parkers Gas & More Clayton, IL

PDC WO: 18E0318

PDC Laboratories, Inc. received 8 sample(s) on 5/11/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753- 1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Kristen Potter'.

Kristen A. Potter
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-18
 Collection Date: 5/7/18 13:00

Lab Order: 18E0318
 Lab ID: 18E0318-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00447		mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Ethylbenzene	U	0.00447		mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00447		mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Toluene	U	0.00447		mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
*Xylenes (total)	U	0.0134		mg/Kg dry	1	5/11/18 13:00	5/12/18 10:45	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Acenaphthylene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Anthracene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0730		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Chrysene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0730		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Fluoranthene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Fluorene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Naphthalene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Phenanthrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
*Pyrene	U	0.365		mg/Kg dry	1	5/14/18 13:52	5/15/18 15:40	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.3	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-19
 Collection Date: 5/8/18 13:30

Lab Order: 18E0318
 Lab ID: 18E0318-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Ethylbenzene	U	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Methyl tert-butyl ether	0.00783	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Toluene	U	0.00504		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
*Xylenes (total)	U	0.0151		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:12	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Acenaphthylene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Anthracene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0696		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Chrysene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0696		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Fluoranthene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Fluorene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Naphthalene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Phenanthrene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
*Pyrene	U	0.348		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:10	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.2	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-20
 Collection Date: 5/8/18 13:45

Lab Order: 18E0318
 Lab ID: 18E0318-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00428		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	JKK
*Ethylbenzene	0.00541	0.00428		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	JKK
*Methyl tert-butyl ether	0.00623	0.00428		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	JKK
*Toluene	0.00924	0.00428		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	JKK
*Xylenes (total)	U	0.0128		mg/Kg dry	1	5/11/18 13:00	5/12/18 11:39	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Acenaphthylene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Anthracene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0662		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Chrysene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0662		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Fluoranthene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Fluorene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Naphthalene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Phenanthrene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
*Pyrene	U	0.331		mg/Kg dry	1	5/14/18 13:52	5/15/18 16:41	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	87.8	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-21
 Collection Date: 5/8/18 14:00

Lab Order: 18E0318
 Lab ID: 18E0318-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0662	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
*Ethylbenzene	0.00697	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
*Toluene	0.0284	0.00491		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
*Xylenes (total)	0.0411	0.0147		mg/Kg dry	1	5/11/18 13:00	5/12/18 12:05	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Acenaphthylene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Anthracene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0784		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Chrysene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0784		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Fluoranthene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Fluorene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Naphthalene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Phenanthrene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
*Pyrene	U	0.392		mg/Kg dry	1	5/15/18 10:33	5/15/18 21:17	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	76.1	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-22
 Collection Date: 5/8/18 14:15

Lab Order: 18E0318
 Lab ID: 18E0318-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	5.42	0.151		mg/Kg dry	25	5/14/18 8:00	5/14/18 16:47	SW8260B R2	JJK
*Ethylbenzene	5.91	0.605		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	JJK
*Methyl tert-butyl ether	U	0.00467		mg/Kg dry	1	5/11/18 8:00	5/12/18 16:08	SW8260B R2	JJK
*Toluene	16.0	0.605		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	JJK
*Xylenes (total)	28.8	1.81		mg/Kg dry	100	5/14/18 17:05	5/15/18 13:47	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Acenaphthylene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0723		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Chrysene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0723		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Fluorene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Naphthalene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Phenanthrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
*Pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/15/18 22:18	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.7	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-23
 Collection Date: 5/8/18 14:30

Lab Order: 18E0318
 Lab ID: 18E0318-06
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	1.49	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
*Ethylbenzene	0.490	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
*Methyl tert-butyl ether	0.272	0.00474		mg/Kg dry	1	5/11/18 8:00	5/12/18 16:35	SW8260B R2	JKK
*Toluene	0.271	0.155		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
*Xylenes (total)	2.40	0.466		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:15	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Acenaphthylene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Anthracene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0739		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Chrysene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0739		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Fluoranthene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Fluorene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Naphthalene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Phenanthrene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
*Pyrene	U	0.370		mg/Kg dry	1	5/15/18 10:33	5/15/18 23:25	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.5	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-24
 Collection Date: 5/9/18 13:00

Lab Order: 18E0318
 Lab ID: 18E0318-07
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.00601	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
*Ethylbenzene	U	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
*Methyl tert-butyl ether	0.730	0.152		mg/Kg dry	25	5/14/18 8:00	5/14/18 17:44	SW8260B R2	JKK
*Toluene	U	0.00428		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
*Xylenes (total)	0.0134	0.0128		mg/Kg dry	1	5/14/18 8:00	5/14/18 23:25	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Acenaphthylene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Anthracene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0727		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Chrysene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0727		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Fluoranthene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Fluorene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Naphthalene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Phenanthrene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
*Pyrene	U	0.364		mg/Kg dry	1	5/15/18 10:33	5/16/18 1:02	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.3	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004 / Parkers Gas & More Clayton, IL
 Client Sample ID: CA-25
 Collection Date: 5/9/18 13:15

Lab Order: 18E0318
 Lab ID: 18E0318-08
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	2.09	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	JKK
*Ethylbenzene	4.93	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00502		mg/Kg dry	1	5/11/18 8:00	5/12/18 17:28	SW8260B R2	JKK
*Toluene	1.13	0.153		mg/Kg dry	25	5/14/18 8:00	5/14/18 18:12	SW8260B R2	JKK
*Xylenes (total)	20.3	1.84		mg/Kg dry	100	5/16/18 8:00	5/16/18 17:19	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Acenaphthylene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0721		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Chrysene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0721		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Fluoranthene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Fluorene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Naphthalene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Phenanthrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
*Pyrene	U	0.361		mg/Kg dry	1	5/15/18 10:33	5/16/18 2:35	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.7	0.100		%	1	5/17/18 10:56	5/18/18 8:56	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/18/2018

LABORATORY RESULTS

Client: Chase Environmental

Project: F0908004 / Parkers Gas & More Clayton, IL

Lab Order: 18E0318

Notes and Definitions

- S1 Analyte exceeds the laboratory control sample acceptance criteria, but there is no observable concentration in the sample.
- S Spike recovery outside acceptance limits.
- R RPD outside acceptance limits.
- I Matrix interference.
- CI Analyte result confirmed by second analysis.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client: CEG		Analysis and/or Method Requested						Reporting							
Address: 2701 East Ash, Bldg. B		BTEX/MTBE PNA's						<input type="checkbox"/> CCDD <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial							
City/State/Zip Code: Springfield, IL 62703								<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F		<input type="checkbox"/> Residential <input type="checkbox"/> Industrial					
Phone/Facsimile: 217-670-1916								Sampler Comments							
Project Name/Number: Parker's Gas & More/F0908004															
Project Location: Clayton, IL															
P.O. # or Invoice To: Client															
Contact Person: Matt R., Alan Co															
Sample Description	Sampling		Matrix Code	Preserv Code	No. of Containers	Sample Type									
	Date	Time				Comp	Gmb								
CA 18	5/7/18	1 ⁰⁰	S	5	4	X	X								
CA 19	5/9/18	1 ³⁰													
CA 20		1 ⁴⁵													
CA 21		2 ⁰⁰													
CA 22		2 ¹⁵													
CA 23		2 ³⁰													
CA 24	5/9/18	1 ⁰⁰	V												
CA 25	5/9/18	1 ¹⁵	S												
Matrix Code		A - Aqueous		DW - Drinking Water		GW - Ground Water		NA - Non-Aqueous Liquid		S - Solid		O - Oil		X - Other (Specify)	
Preservative Code		D - None		1 - HCl		2 - H2SO4		3 - HNO3		4 - NaOH		5 - 5035 Kit		X - Other (Specify)	
Retrieved By: <i>[Signature]</i>		Date: 5/9/18		Time: 4⁰⁰		Received By: <i>[Signature]</i>		Date: 5/9/18		Time: 4⁰⁰		Method of Shipment: Hand			
Retrieved By: <i>[Signature]</i>		Date: 5/11/18		Time: 11¹⁰		Received By: <i>[Signature]</i>		Date: 5-11-18		Time: 11:10		Method of Shipment: Hand			
Special Instructions:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		QC Level: 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>		On wet ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature (°C): 0.8							

Page 11 of 11

Copies: White - Client / Yellow - PAS, Inc. / Pink - Sampler
 PAS COC - Chemical



Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

**Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
Site Name: Parker's Gas & More / Clayton
Site Address (Not a P.O. Box): 101 East Outer Belt Drive
City: Clayton County: Adams ZIP Code: 62324

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

AW
(Initial)
AW
(Initial)
AW
(Initial)
AW
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

KP
(Initial)
KP
(Initial)
KP
(Initial)
KP
(Initial)
KP
(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

KP
(Initial)
KP
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Alan W. Cantrell
Title Sr. PM
Company Chase Environmental Group, Inc.
Address 2701 East Ash Street, Bldg. B
City Springfield
State Illinois
Zip Code 62703
Phone 217-670-1916
Signature [Signature]
Date 5/9/18

Laboratory Representative

Name Kristen Potter
Title Proj Manager
Company Prairie Analytical Systems, Inc.
Address 1210 Capitol Airport Drive
City Springfield
State Illinois
Zip Code 62707-8490
Phone 217-753-1148
Signature [Signature]
Date 5/18/18



PDC Laboratories, Inc.

Wednesday, May 23, 2018

Matt Rives
Chase Environmental
2701 E Ash
Springfield, IL 62704
TEL: (217) 670-1916
FAX: (217) 670-1682

RE: F0908004-Parkers / Clayton, IL

PDC WO: 18E0371

PDC Laboratories, Inc. received 7 sample(s) on 5/15/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kristen Potter", written in a cursive style.

Kristen A. Potter
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 26
 Collection Date: 5/10/18 10:30

Lab Order: 18E0371
 Lab ID: 18E0371-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0796	0.0217	J, M	mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Ethylbenzene	0.515	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Toluene	0.512	0.149		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
*Xylenes (total)	2.65	0.446		mg/Kg dry	25	5/17/18 8:00	5/17/18 20:11	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Acenaphthylene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Anthracene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(g,b,i)perylene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0717		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Chrysene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0717		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Fluoranthene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Fluorene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Naphthalene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Phenanthrene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
*Pyrene	U	0.359		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:22	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	83.2	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 27
 Collection Date: 5/10/18 10:50

Lab Order: 18E0371
 Lab ID: 18E0371-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0611	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Ethylbenzene	0.146	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0151	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Toluene	0.156	0.00494		mg/Kg dry	1	5/17/18 8:00	5/17/18 20:38	SW8260B R2	JKK
*Xylenes (total)	1.75	0.330		mg/Kg dry	25	5/21/18 11:00	5/21/18 17:26	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Acenaphthylene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Anthracene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0725		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Chrysene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0725		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Fluoranthene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Fluorene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Phenanthrene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
*Pyrene	U	0.362		mg/Kg dry	1	5/16/18 10:06	5/16/18 23:55	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.2	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 28
 Collection Date: 5/10/18 11:30

Lab Order: 18E0371
 Lab ID: 18E0371-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	6.06	2.62		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	JKK
*Ethylbenzene	24.0	2.62		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00421		mg/Kg dry	1	5/17/18 8:00	5/18/18 18:16	SW8260B R2	JKK
*Toluene	U	0.00421		mg/Kg dry	1	5/17/18 8:00	5/18/18 18:16	SW8260B R2	JKK
*Xylenes (total)	60.7	7.85		mg/Kg dry	500	5/22/18 11:00	5/22/18 20:02	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Acenaphthylene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Anthracene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0757		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Chrysene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0757		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Fluoranthene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Fluorene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Naphthalene	0.773	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Phenanthrene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
*Pyrene	U	0.378		mg/Kg dry	1	5/16/18 10:06	5/17/18 0:29	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	78.4	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 29
 Collection Date: 5/10/18 12:15

Lab Order: 18E0371
 Lab ID: 18E0371-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.334	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
*Ethylbenzene	1.49	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
*Toluene	U	0.177		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
*Xylenes (total)	7.49	0.530		mg/Kg dry	25	5/17/18 8:00	5/17/18 19:43	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Acenaphthylene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Anthracene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0728		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Chrysene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0728		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Fluoranthene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Fluorene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Naphthalene	0.472	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Phenanthrene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
*Pyrene	U	0.364		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:27	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.9	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 30
 Collection Date: 5/10/18 12:30

Lab Order: 18E0371
 Lab ID: 18E0371-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0503	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JJK
*Ethylbenzene	0.0273	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JJK
*Methyl tert-butyl ether	U	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JJK
*Toluene	0.00730	0.00586		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JJK
*Xylenes (total)	0.0868	0.0176		mg/Kg dry	1	5/21/18 11:00	5/22/18 2:25	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Acenaphthylene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Anthracene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0723		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Chrysene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0723		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Fluoranthene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Fluorene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Naphthalene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Phenanthrene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
*Pyrene	U	0.362		mg/Kg dry	1	5/17/18 10:10	5/17/18 19:58	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.4	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 31
 Collection Date: 5/10/18 13:50

Lab Order: 18E0371
 Lab ID: 18E0371-06
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
*Ethylbenzene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
*Methyl tert-butyl ether	0.00729	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
*Toluene	U	0.00438		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
*Xylenes (total)	U	0.0131		mg/Kg dry	1	5/17/18 8:00	5/18/18 19:13	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Acenaphthylene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Anthracene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0712		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Chrysene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0712		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Fluoranthene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Fluorene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Naphthalene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Phenanthrene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
*Pyrene	U	0.356		mg/Kg dry	1	5/17/18 10:10	5/17/18 14:58	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.9	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004-Parkers / Clayton, IL
 Client Sample ID: CA 32
 Collection Date: 5/11/18 13:00

Lab Order: 18E0371
 Lab ID: 18E0371-07
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00472		mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Ethylbenzene	U	0.00472		mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00472		mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Toluene	U	0.00472		mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
*Xylenes (total)	U	0.0142		mg/Kg dry	1	5/17/18 15:00	5/20/18 18:14	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Acenaphthylene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Anthracene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0700		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Chrysene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0700		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Fluoranthene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Fluorene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Naphthalene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Phenanthrene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
*Pyrene	U	0.350		mg/Kg dry	1	5/17/18 10:10	5/17/18 15:31	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	83.7	0.100		%	1	5/18/18 9:53	5/21/18 9:18	ASTM D2974	CDM

PDC Laboratories, Inc.

Date: 5/23/2018

LABORATORY RESULTS

Client: Chase Environmental
Project: F0908004-Parkers / Clayton, IL

Lab Order: 18E0371

Notes and Definitions

- S1 Analyte exceeds the laboratory control sample acceptance criteria, but there is no observable concentration in the sample.
- S Spike recovery outside acceptance limits.
- M Reporting limit set between LOQ and MDL.
- J Analyte detected between reporting level and MDL.
- I Matrix interference.
- Cl Analyte result confirmed by second analysis.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1219 Capital Airport Drive - Springfield, IL 62707-6490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Offices - 2114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2634 - Facsimile (847) 458-8660
 Central IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client: CEG		Analysis and/or Method Requested										Reporting			
Address: 2701 East Ash, Bldg. B		BTDG/MTDB PNAS										<input type="checkbox"/> CCDD <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial			
City, State, Zip Code: Springfield, IL 62703												<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F		<input type="checkbox"/> Residential <input type="checkbox"/> Industrial	
Phone / Facsimile: 217-670-1916												Sampler Comments (For State Use Only)			
Project Name / Number: Parker's / F0908004															
Project Location: Clayton, IL															
P.O. # or Invoice To: Client															
Contact Person: Matt R. Alan C.															
Sample Description	Sampling Date	Sampling Time	Matrix Code	Preservative Code	No. of Containers	Sample Type									
CA26	5/10/18	10:30A	S	5	4	X	X	X							
CA27		10:50A													
CA28		11:30A													
CA29		12:15P													
CA30		12:30P													
CA31		1:50P													
CA32	5/11/18	1:00P													
Matrix Code	A - Aqueous	DW - Drinking Water	GW - Ground Water	NA - Non-Aqueous Liquid	S - Solid	O - Oil	X - Other (Specify)								
Preservative Code	0 - None	1 - HCl	2 - H2SO4	3 - HNO3	4 - NaOH	5 - 5035 Rit	X - Other (Specify)								
Relinquished By: <i>[Signature]</i>	Date: 05/15/18	Time: 1120	Received By: <i>[Signature]</i>	Date: 5/15/18	Time: 1120	Method of Shipment: Hand									
Instructions:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		QC Level: <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4		On wet ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature (°C): 1.0					

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PDC Laboratories, Inc.

Wednesday, May 30, 2018

Matt Rives
Chase Environmental
2701 E Ash
Springfield, IL 62704
TEL: (217) 670-1916
FAX: (217) 670-1682

RE: F0908004P.F Parkers: Clayton, IL

PDC WO: 18E0511

PDC Laboratories, Inc. received 15 sample(s) on 5/21/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kristen Potter".

Kristen A. Potter
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 39
 Collection Date: 5/16/18 8:30

Lab Order: 18E0511
 Lab ID: 18E0511-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0107	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	JJK
*Ethylbenzene	0.0190	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	JJK
*Methyl tert-butyl ether	0.232	0.109		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:23	SW8260B R2	JJK
*Toluene	0.0372	0.00398		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	JJK
*Xylenes (total)	0.0861	0.0119		mg/Kg dry	1	5/24/18 12:00	5/25/18 11:44	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Acenaphthylene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Anthracene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0721		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Chrysene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0721		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Fluoranthene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Fluorene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Naphthalene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Phenanthrene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
*Pyrene	U	0.360		mg/Kg dry	1	5/22/18 15:45	5/24/18 2:12	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.4	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 40
 Collection Date: 5/16/18 9:00

Lab Order: 18E0511
 Lab ID: 18E0511-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.00546	0.00370		mg/Kg dry	1	5/29/18 8:00	5/30/18 8:26	SW8260B R2	JKK
*Ethylbenzene	U	0.00490		mg/Kg dry	1	5/22/18 11:00	5/23/18 2:40	SW8260B R2	JKK
*Methyl tert-butyl ether	0.102	0.00370		mg/Kg dry	1	5/29/18 8:00	5/30/18 8:26	SW8260B R2	JKK
*Toluene	0.00778	0.00490		mg/Kg dry	1	5/22/18 11:00	5/23/18 2:40	SW8260B R2	JKK
*Xylenes (total)	U	0.0147		mg/Kg dry	1	5/22/18 11:00	5/23/18 2:40	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Acenaphthylene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Anthracene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0706		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Chrysene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0706		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Fluoranthene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Fluorene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Naphthalene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Phenanthrene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
*Pyrene	U	0.353		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:23	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.8	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 41
 Collection Date: 5/16/18 10:00

Lab Order: 18E0511
 Lab ID: 18E0511-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatiles Organic Compounds by GC-MS									
*Benzene	3.77	0.153		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:50	SW8260B R2	JKK
*Ethylbenzene	6.45	0.612		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	JKK
*Methyl tert-butyl ether	0.394	0.153		mg/Kg dry	25	5/22/18 12:55	5/23/18 6:50	SW8260B R2	JKK
*Toluene	18.8	0.612		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	JKK
*Xylenes (total)	33.1	1.84		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:30	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Acenaphthylene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Anthracene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0733		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Chrysene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0733		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Fluoranthene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Fluorene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Naphthalene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Phenanthrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
*Pyrene	U	0.367		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:56	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 42
 Collection Date: 5/16/18 10:10

Lab Order: 18E0511
 Lab ID: 18E0511-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	3.31	0.113		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:17	SW8260B R2	JKK
*Ethylbenzene	5.67	0.452		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	JKK
*Methyl tert-butyl ether	0.208	0.113		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:17	SW8260B R2	JKK
*Toluene	8.65	0.452		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	JKK
*Xylenes (total)	27.8	1.36		mg/Kg dry	100	5/24/18 12:00	5/25/18 9:57	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Acenaphthylene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Anthracene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0701		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Chrysene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0701		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Fluoranthene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Fluorene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Naphthalene	0.524	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Phenanthrene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
*Pyrene	U	0.351		mg/Kg dry	1	5/22/18 15:45	5/23/18 20:30	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 43
 Collection Date: 5/16/18 11:45

Lab Order: 18E0511
 Lab ID: 18E0511-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	2.02	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Ethylbenzene	1.32	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Methyl tert-butyl ether	0.283	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Toluene	2.22	0.113		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
*Xylenes (total)	6.14	0.340		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:55	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Acenaphthylene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Anthracene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0691		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Chrysene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0691		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Fluoranthene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Fluorene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Naphthalene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Phenanthrene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
*Pyrene	U	0.346		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:03	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.8	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental

Project: F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Client Sample ID: CA 44

Lab ID: 18E0511-06

Collection Date: 5/16/18 12:30

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00495		mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Ethylbenzene	U	0.00495		mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00495		mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Toluene	U	0.00495		mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
*Xylenes (total)	U	0.0149		mg/Kg dry	1	5/24/18 12:00	5/25/18 3:13	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Acenaphthylene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Anthracene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0730		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Chrysene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0730		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Fluoranthene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Fluorene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Naphthalene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Phenanthrene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
*Pyrene	U	0.365		mg/Kg dry	1	5/22/18 15:45	5/23/18 21:37	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.0	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
Project: F0908004P.F Parkers: Clayton, IL
Client Sample ID: CA 45
Collection Date: 5/17/18 8:00

Lab Order: 18E0511
Lab ID: 18E0511-07
Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Ethylbenzene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Toluene	U	0.00509		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
*Xylenes (total)	U	0.0153		mg/Kg dry	1	5/22/18 12:55	5/23/18 9:59	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Acenaphthylene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0718		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Chrysene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0718		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Fluorene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Naphthalene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Phenanthrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
*Pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:10	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 46
 Collection Date: 5/17/18 9:00

Lab Order: 18E0511
 Lab ID: 18E0511-08
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00452		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Ethylbenzene	U	0.00452		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00452		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Toluene	U	0.00452		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
*Xylenes (total)	U	0.0136		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:26	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Acenaphthylene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0719		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Chrysene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0719		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Fluoranthene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Fluorene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Naphthalene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Phenanthrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
*Pyrene	U	0.359		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:43	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	83.5	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 47
 Collection Date: 5/17/18 10:00

Lab Order: 18E0511
 Lab ID: 18E0511-09
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.195	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
*Ethylbenzene	0.613	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
*Toluene	0.645	0.105		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
*Xylenes (total)	8.19	0.315		mg/Kg dry	25	5/22/18 12:55	5/23/18 7:44	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Acenaphthylene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Anthracene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0706		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Chrysene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0706		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Fluoranthene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Fluorene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Naphthalene	0.387	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Phenanthrene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
*Pyrene	U	0.353		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:12	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	83.1	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 48
 Collection Date: 5/17/18 11:30

Lab Order: 18E0511
 Lab ID: 18E0511-10
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	1.47	0.118		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:11	SW8260B R2	JKK
*Ethylbenzene	13.2	2.35		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.118		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:11	SW8260B R2	JKK
*Toluene	18.2	2.35		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	JKK
*Xylenes (total)	101	7.06		mg/Kg dry	500	5/24/18 9:00	5/24/18 21:22	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Acenaphthylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0695		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Chrysene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0695		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Fluorene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Naphthalene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Phenanthrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
*Pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 3:46	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	82.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 49
 Collection Date: 5/17/18 12:00

Lab Order: 18E0511
 Lab ID: 18E0511-11
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.119	0.100		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
*Ethylbenzene	0.143	0.100		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.100		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
*Toluene	0.172	0.100		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
*Xylenes (total)	2.46	0.301		mg/Kg dry	25	5/22/18 12:55	5/23/18 8:38	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Acenaphthylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Chrysene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Fluorene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Naphthalene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Phenanthrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
*Pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:20	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	86.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 50
 Collection Date: 5/17/18 12:15

Lab Order: 18E0511
 Lab ID: 18E0511-12
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.240	0.0979		mg/Kg dry	25	5/24/18 9:00	5/24/18 21:49	SW8260B R2	JJK
*Ethylbenzene	0.0876	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JJK
*Methyl tert-butyl ether	0.0923	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JJK
*Toluene	0.0183	0.00374		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JJK
*Xylenes (total)	0.0421	0.0112		mg/Kg dry	1	5/22/18 12:55	5/23/18 10:52	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Acenaphthylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Chrysene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0674		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Fluorene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Naphthalene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Phenanthrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
*Pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 4:53	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	88.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 51
 Collection Date: 5/17/18 13:00

Lab Order: 18E0511
 Lab ID: 18E0511-13
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00400		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Ethylbenzene	0.00589	0.00400		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00400		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Toluene	0.00678	0.00400		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
*Xylenes (total)	0.0356	0.0120		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:19	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Acenaphthylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0696		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Chrysene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0696		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Fluoranthene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Fluorene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Naphthalene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Phenanthrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
*Pyrene	U	0.348		mg/Kg dry	1	5/23/18 13:15	5/24/18 5:27	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	84.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 52
 Collection Date: 5/17/18 13:30

Lab Order: 18E0511
 Lab ID: 18E0511-14
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0440	0.00447		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Ethylbenzene	0.160	0.00447		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Methyl tert-butyl ether	0.0405	0.00447		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Toluene	0.00510	0.00447		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
*Xylenes (total)	0.136	0.0134		mg/Kg dry	1	5/22/18 12:55	5/23/18 11:46	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Acenaphthylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0675		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Chrysene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Dibenz(a,b)anthracene	U	0.0675		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Fluoranthene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Fluorene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Naphthalene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Phenanthrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
*Pyrene	U	0.337		mg/Kg dry	1	5/23/18 13:15	5/24/18 13:41	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	84.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 53
 Collection Date: 5/17/18 14:00

Lab Order: 18E0511
 Lab ID: 18E0511-15
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.00428	0.00406		mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Ethylbenzene	0.00724	0.00406		mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00406		mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Toluene	0.00817	0.00406		mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
*Xylenes (total)	U	0.0122		mg/Kg dry	1	5/22/18 12:55	5/23/18 12:13	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Acenaphthylene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Anthracene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0621		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Chrysene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0621		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Fluoranthene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Fluorene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Naphthalene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Phenanthrene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
*Pyrene	U	0.310		mg/Kg dry	1	5/23/18 13:15	5/24/18 14:14	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	90.5	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/30/2018

LABORATORY RESULTS

Client: Chase Environmental

Project: F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0511

Notes and Definitions

- S Spike recovery outside acceptance limits.
- R RPD outside acceptance limits.
- M Reporting limit set between LOQ and MDL.
- I Matrix interference.
- CI Analyte result confirmed by second analysis.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).



PDC Laboratories, Inc.

Tuesday, May 29, 2018

Matt Rives

Chase Environmental
2701 E Ash
Springfield, IL 62704

TEL: (217) 670-1916

FAX: (217) 670-1682

RE: F0908004P.F Parkers: Clayton, IL

PDC WO: 18E0510

PDC Laboratories, Inc. received 12 sample(s) on 5/21/2018 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of PDC Laboratories, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kristen Potter". The signature is written in a cursive, flowing style.

Kristen A. Potter
Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 34
 Collection Date: 5/14/18 10:00

Lab Order: 18E0510
 Lab ID: 18E0510-01
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.212	0.135		mg/Kg dry	25	5/25/18 12:35	5/25/18 16:11	SW8260B R2	JKK
*Ethylbenzene	0.0109	0.00459		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	JKK
*Methyl tert-butyl ether	0.225	0.00460		mg/Kg dry	1	5/24/18 9:00	5/25/18 0:04	SW8260B R2	JKK
*Toluene	0.118	0.00459		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	JKK
*Xylenes (total)	0.0455	0.0138		mg/Kg dry	1	5/22/18 11:00	5/22/18 21:56	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Acenaphthylene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Anthracene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0756		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Chrysene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0756		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Fluoranthene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Fluorene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Naphthalene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Phenanthrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
*Pyrene	U	0.378		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:28	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 35
 Collection Date: 5/14/18 13:30

Lab Order: 18E0510
 Lab ID: 18E0510-02
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.590	0.157		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:28	SW8260B R2	JKK
*Ethylbenzene	U	0.157		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:28	SW8260B R2	JKK
*Methyl tert-butyl ether	0.382	0.157		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:28	SW8260B R2	JKK
*Toluene	0.681	0.157		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:28	SW8260B R2	JKK
*Xylenes (total)	U	0.470		mg/Kg dry	25	5/24/18 9:00	5/24/18 20:28	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Acenaphthylene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Anthracene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0738		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Chrysene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0738		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Fluoranthene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Fluorene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Naphthalene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Phenanthrene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
*Pyrene	U	0.369		mg/Kg dry	1	5/22/18 15:45	5/23/18 16:59	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 36
 Collection Date: 5/14/18 13:50

Lab Order: 18E0510
 Lab ID: 18E0510-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.107	0.00466		mg/Kg dry	1	5/24/18 9:00	5/24/18 22:16	SW8260B R2	JKK
*Ethylbenzene	0.00810	0.00467		mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	JKK
*Methyl tert-butyl ether	0.212	0.00466		mg/Kg dry	1	5/24/18 9:00	5/24/18 22:16	SW8260B R2	JKK
*Toluene	0.100	0.00467		mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	JKK
*Xylenes (total)	0.0322	0.0140		mg/Kg dry	1	5/22/18 11:00	5/22/18 22:53	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Acenaphthylene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Anthracene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0704		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Chrysene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0704		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Fluorene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Naphthalene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Phenanthrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
*Pyrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:01	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	79.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 37
 Collection Date: 5/15/18 10:30

Lab Order: 18E0510
 Lab ID: 18E0510-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	0.0854	0.0193	J, M	mg/Kg dry	25	5/29/18 8:00	5/29/18 13:11	SW8260B R2	JKK
*Ethylbenzene	0.0354	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
*Toluene	0.00650	0.00558		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
*Xylenes (total)	0.156	0.0167		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:21	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Acenaphthylene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Anthracene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0764		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Chrysene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0764		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Fluoranthene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Fluorene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Naphthalene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Phenanthrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
*Pyrene	U	0.382		mg/Kg dry	1	5/22/18 15:45	5/23/18 18:32	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	78.2	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 38
 Collection Date: 5/15/18 11:30

Lab Order: 18E0510
 Lab ID: 18E0510-05
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Ethylbenzene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Toluene	U	0.00513		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
*Xylenes (total)	U	0.0154		mg/Kg dry	1	5/22/18 11:00	5/22/18 23:49	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Acenaphthylene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Anthracene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0727		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Chrysene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0727		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Fluoranthene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Fluorene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Naphthalene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Phenanthrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
*Pyrene	U	0.364		mg/Kg dry	1	5/22/18 15:45	5/23/18 19:02	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	81.4	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 54
 Collection Date: 5/18/18 10:00

Lab Order: 18E0510
 Lab ID: 18E0510-06
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00570		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
*Ethylbenzene	U	0.00570		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00570		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
*Toluene	U	0.00570		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
*Xylenes (total)	U	0.0171		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:18	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Acenaphthylene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Anthracene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0745		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Chrysene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0745		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Fluoranthene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Fluorene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Naphthalene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Phenanthrene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
*Pyrene	U	0.372		mg/Kg dry	1	5/22/18 15:45	5/23/18 22:37	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.3	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 55
 Collection Date: 5/18/18 11:00

Lab Order: 18E0510
 Lab ID: 18E0510-07
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00452		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JJK
*Ethylbenzene	U	0.00452		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JJK
*Methyl tert-butyl ether	U	0.00452		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JJK
*Toluene	U	0.00452		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JJK
*Xylenes (total)	U	0.0136		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:01	SW8260B R2	JJK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Acenaphthylene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Anthracene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Benzo(g,b,i)perylene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0658		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Chrysene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0658		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Fluoranthene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Fluorene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Naphthalene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Phenanthrene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
*Pyrene	U	0.329		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:08	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	89.7	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 56
 Collection Date: 5/18/18 11:45

Lab Order: 18E0510
 Lab ID: 18E0510-08
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Ethylbenzene	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Toluene	U	0.00518		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
*Xylenes (total)	U	0.0155		mg/Kg dry	1	5/22/18 11:00	5/23/18 0:46	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Acenaphthylene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Anthracene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0661		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Chrysene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0661		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Fluoranthene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Fluorene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Naphthalene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Phenanthrene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
*Pyrene	U	0.331		mg/Kg dry	1	5/22/18 15:45	5/23/18 23:38	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	88.0	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 57
 Collection Date: 5/18/18 12:15

Lab Order: 18E0510
 Lab ID: 18E0510-09
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Ethylbenzene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Toluene	U	0.00460		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
*Xylenes (total)	U	0.0138		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:14	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Acenaphthylene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Anthracene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0663		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Chrysene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0663		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Fluorene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Naphthalene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Phenanthrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
*Pyrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:09	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	87.9	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 58
 Collection Date: 5/18/18 12:30

Lab Order: 18E0510
 Lab ID: 18E0510-10
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00381		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Ethylbenzene	U	0.00381		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00381		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Toluene	U	0.00381		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
*Xylenes (total)	U	0.0114		mg/Kg dry	1	5/25/18 12:35	5/25/18 22:28	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Acenaphthylene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Anthracene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0676		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Chrysene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0676		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Fluoranthene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Fluorene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Naphthalene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Phenanthrene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
*Pyrene	U	0.338		mg/Kg dry	1	5/22/18 15:45	5/24/18 0:40	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	88.1	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 59
 Collection Date: 5/18/18 13:30

Lab Order: 18E0510
 Lab ID: 18E0510-11
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00416		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Ethylbenzene	U	0.00416		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.0250		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Toluene	U	0.00416		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
*Xylenes (total)	U	0.0125		mg/Kg dry	1	5/22/18 11:00	5/23/18 1:43	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Acenaphthylene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Anthracene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(g,b,i)perylene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0663		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Chrysene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0663		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Fluoranthene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Fluorene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Naphthalene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Phenanthrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
*Pyrene	U	0.332		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:11	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	84.4	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental
 Project: F0908004P.F Parkers: Clayton, IL
 Client Sample ID: CA 60
 Collection Date: 5/18/18 14:00

Lab Order: 18E0510
 Lab ID: 18E0510-12
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Volatile Organic Compounds by GC-MS									
*Benzene	U	0.00474		mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Ethylbenzene	U	0.00474		mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Methyl tert-butyl ether	U	0.00474		mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Toluene	U	0.00474		mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
*Xylenes (total)	U	0.0142		mg/Kg dry	1	5/24/18 9:00	5/24/18 23:37	SW8260B R2	JKK
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Acenaphthylene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Anthracene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(a)anthracene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(b)fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(k)fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(g,h,i)perylene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Benzo(a)pyrene	U	0.0705		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Chrysene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Dibenz(a,h)anthracene	U	0.0705		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Fluoranthene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Fluorene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Indeno(1,2,3-cd)pyrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Naphthalene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Phenanthrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
*Pyrene	U	0.352		mg/Kg dry	1	5/22/18 15:45	5/24/18 1:41	SW8270C R3	JKA
Conventional Chemistry Parameters									
Percent Solids	80.8	0.100		%	1	5/24/18 10:04	5/25/18 10:02	ASTM D2974	DMS

PDC Laboratories, Inc.

Date: 5/29/2018

LABORATORY RESULTS

Client: Chase Environmental

Project: F0908004P.F Parkers: Clayton, IL

Lab Order: 18E0510

Notes and Definitions

- S Spike recovery outside acceptance limits.
- R RPD outside acceptance limits.
- M Reporting limit set between LOQ and MDL.
- J Analyte detected between reporting level and MDL.
- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60166 - Phone (847) 651-2604 - Facsimile (847) 458-9880
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



www.prairieanalytical.com

Client		CEG						Analysis and/or Method Requested						Reporting					
Address		2701 East Ash, Bldg. B						BTEX/MTBE PNA						<input type="checkbox"/> CCDD <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial / Commercial					
City, State, Zip Code		Springfield, IL 62703												<input type="checkbox"/> A <input type="checkbox"/> D <input type="checkbox"/> B <input type="checkbox"/> E <input type="checkbox"/> C <input type="checkbox"/> F					
Phone / Facsimile		217-670-1916												<input type="checkbox"/> Residential <input type="checkbox"/> Industrial					
Project Name / Number		Parker's / F0908004P.F												Sampler Comments					
Project Location		Clayton, IL																	
P.O. # or Invoice To		Client																	
Contact Person		Matthew Rivers																	
Sample Description	Sampling		Matrix Code	Preserv Code	No. of Containers	Sample Type													
	Date	Time				Comp	Grab												
CA34	05/14/18	10:00 A	S	5	4		X	X											
CA35		1:30 P																	
CA36		1:50 P																	
CA37	05/15/18	10:30 A																	
CA38		11:30 A																	
Matrix Code		A - Aqueous		DW - Drinking Water		GW - Ground Water		NA - Non-Aqueous Liquid		S - Solid		O - Oil		X - Other (Specify)					
Preservative Code		0 - None		1 - HCl		2 - H2SO4		3 - HNO3		4 - NaOH		5 - S035 Kit		X - Other (Specify)					
Requisitioned By			Date		Time		Received By			Date		Time		Method of Shipment					
			5/21/18		125 pm					5-21-18		1:25 pm		HLA					
Instructions:			Turnaround Time		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		QC Level		On website?		Temperature (°C)								
			Date Required:		1 2 3 4		<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.1								

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Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident # (6- or 8-digit): 951012 IEPA LPC# (10-digit): 0010105006
Site Name: Clayton / Parker's Gas n' More
Site Address (Not a P.O. Box): 101 East Outer Belt Drive
City: Clayton County: Adams ZIP Code: 62324

Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

MR
(Initial)
MR
(Initial)
MR
(Initial)
MR
(Initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

KP
(Initial)
KP
(Initial)
KP
(Initial)
KP
(Initial)
KP
(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

KP
(Initial)
KP
(Initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name Matthew Rives
Title Sr. Project Manager
Company Chase Environmental Group, Inc.
Address 2701 East Ash Street
City Springfield
State Illinois
Zip Code 62703
Phone 217-670-1916
Signature [Signature]
Date 5/21/18

Laboratory Representative

Name Kristen Potter
Title Proj Manager
Company Prairie Analytical Systems, Inc. PDC Labs
Address 1210 Capital Airport Drive
City Springfield
State Illinois
Zip Code 62707
Phone 217-753-1148
Signature [Signature]
Date 5/29/18

Appendix C
Manifests of Soil Disposal

PDC/Area Companies -- Scale Ticket Summary for Period: 20180501 thru 20180521

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
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Billing Information						Service Information								
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12-340 CHASE ENVIRONMENTAL GROUP 2701 E ASH SPRINGFIELD IL 62704						12-340 PARKER'S GAS AND MORE 101 E OUTER BELT DR CLAYTON IL 62324								
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12-340	05/01/2018	144691	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,140	18.07	TN	12-340	0		
12-340	05/01/2018	144693	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,660	17.83	TN	12-340	0		
12-340	05/01/2018	144692	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	39,180	19.59	TN	12-340	0		
12-340	05/01/2018	144690	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	34,600	17.30	TN	12-340	0		
12-340	05/01/2018	144694	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,720	18.86	TN	12-340	0		
12-340	05/01/2018	144695	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	30,780	15.39	TN	12-340	0		
12-340	05/01/2018	144696	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/01/2018	144697	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	32,780	16.39	TN	12-340	0		
12-340	05/01/2018	144703	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/01/2018	144704	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	41,840	20.92	TN	12-340	0		
12-340	05/01/2018	144706	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	34,280	17.14	TN	12-340	0		
12-340	05/01/2018	144708	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	40,460	20.23	TN	12-340	0		
12-340	05/01/2018	144711	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,280	17.64	TN	12-340	0		
12-340	05/01/2018	144713	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,580	18.29	TN	12-340	0		
12-340	05/01/2018	144714	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,260	19.13	TN	12-340	0		
12-340	05/01/2018	144716	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	34,540	17.27	TN	12-340	0		
12-340	05/01/2018	144724	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/01/2018	144727	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,100	18.05	TN	12-340	0		
12-340	05/01/2018	144729	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	33,460	16.73	TN	12-340	0		
12-340	05/01/2018	144731	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,660	18.33	TN	12-340	0		
12-340	05/01/2018	144732	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	34,040	17.02	TN	12-340	0		
12-340	05/01/2018	144735	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	35,100	17.55	TN	12-340	0		
12-340	05/01/2018	144737	PK NT	NON SPCL WASTE TONS		BEAIRD	NONTN	36,480	18.24	TN	12-340	0		

Electronic Filing: Received, Clerk's Office 10/23/2020

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/01/2018	144738	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,160	16.58	TN	12-340	0		
12-340	05/01/2018	144752	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,840	19.92	TN	12-340	0		
12-340	05/01/2018	144753	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,340	18.67	TN	12-340	0		
12-340	05/01/2018	144754	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,880	17.94	TN	12-340	0		
12-340	05/01/2018	144763	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,960	16.98	TN	12-340	0		
12-340	05/01/2018	144762	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,160	17.58	TN	12-340	0		
12-340	05/01/2018	144768	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,860	20.43	TN	12-340	0		
12-340	05/01/2018	144773	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,800	19.40	TN	12-340	0		
12-340	05/01/2018	144775	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/02/2018	144783	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,420	17.21	TN	12-340	0		
12-340	05/02/2018	144784	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,640	16.82	TN	12-340	0		
12-340	05/02/2018	144785	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12-340	0		
12-340	05/02/2018	144786	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,640	17.82	TN	12-340	0		
12-340	05/02/2018	144789	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,520	17.76	TN	12-340	0		
12-340	05/02/2018	144793	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,760	22.88	TN	12-340	0		
12-340	05/02/2018	144796	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,180	19.09	TN	12-340	0		
12-340	05/02/2018	144798	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,780	17.39	TN	12-340	0		
12-340	05/02/2018	144803	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,960	21.98	TN	12-340	0		
12-340	05/02/2018	144804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,200	21.60	TN	12-340	0		
12-340	05/02/2018	144806	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,460	22.23	TN	12-340	0		
12-340	05/02/2018	144808	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,320	18.66	TN	12-340	0		
12-340	05/02/2018	144810	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,100	19.55	TN	12-340	0		
12-340	05/02/2018	144812	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,600	20.30	TN	12-340	0		RATCLIFF 99
12-340	05/02/2018	144815	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,300	18.65	TN	12-340	0		
12-340	05/02/2018	144817	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,940	19.47	TN	12-340	0		
12-340	05/02/2018	144820	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,060	21.03	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/02/2018	144821	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,720	20.86	TN	12-340	0		
12-340	05/02/2018	144824	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,380	20.19	TN	12-340	0		
12-340	05/02/2018	144825	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,280	19.64	TN	12-340	0		
12-340	05/02/2018	144826	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,860	17.93	TN	12-340	0		
12-340	05/02/2018	144827	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/02/2018	144828	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,600	19.30	TN	12-340	0		
12-340	05/02/2018	144830	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,460	20.23	TN	12-340	0		
12-340	05/02/2018	144846	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,120	20.06	TN	12-340	0		
12-340	05/02/2018	144847	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,600	19.80	TN	12-340	0		
12-340	05/02/2018	144850	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,500	18.75	TN	12-340	0		
12-340	05/02/2018	144852	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,260	18.63	TN	12-340	0		
12-340	05/02/2018	144853	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,000	20.00	TN	12-340	0		
12-340	05/02/2018	144857	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,340	20.17	TN	12-340	0		
12-340	05/02/2018	144858	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/02/2018	144859	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/03/2018	144871	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,380	20.19	TN	12-340	0		
12-340	05/03/2018	144873	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,020	21.01	TN	12-340	0		
12-340	05/03/2018	144874	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,820	20.91	TN	12-340	0		
12-340	05/03/2018	144876	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,720	18.36	TN	12-340	0		
12-340	05/03/2018	144885	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,180	20.59	TN	12-340	0		
12-340	05/03/2018	144886	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,560	20.78	TN	12-340	0		
12-340	05/03/2018	144888	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,320	19.16	TN	12-340	0		
12-340	05/03/2018	144889	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/03/2018	144896	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,560	18.28	TN	12-340	0		
12-340	05/03/2018	144897	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,440	19.22	TN	12-340	0		
12-340	05/03/2018	144898	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,460	19.23	TN	12-340	0		

Electronic Filing: Received, Clerk's Office 10/23/2020

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/03/2018	144899	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,800	17.90	TN	12-340	0		
12-340	05/03/2018	144903	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,980	17.99	TN	12-340	0		
12-340	05/03/2018	144907	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,940	18.97	TN	12-340	0		
12-340	05/03/2018	144908	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,400	17.70	TN	12-340	0		
12-340	05/03/2018	144909	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,820	19.41	TN	12-340	0		
12-340	05/03/2018	144917	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,960	18.98	TN	12-340	0		
12-340	05/03/2018	144919	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,740	17.87	TN	12-340	0		
12-340	05/03/2018	144920	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,800	19.40	TN	12-340	0		
12-340	05/03/2018	144922	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,320	18.66	TN	12-340	0		
12-340	05/03/2018	144943	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,500	20.25	TN	12-340	0		
12-340	05/03/2018	144944	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,720	17.36	TN	12-340	0		
12-340	05/03/2018	144945	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,360	18.68	TN	12-340	0		
12-340	05/03/2018	144946	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,420	19.21	TN	12-340	0		
12-340	05/04/2018	144960	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,300	19.65	TN	12-340	0		
12-340	05/04/2018	144961	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,620	21.81	TN	12-340	0		
12-340	05/04/2018	144964	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,840	21.42	TN	12-340	0		
12-340	05/04/2018	144965	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,300	21.15	TN	12-340	0		
12-340	05/04/2018	144970	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,700	20.85	TN	12-340	0		
12-340	05/04/2018	144971	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,620	20.31	TN	12-340	0		
12-340	05/04/2018	144973	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,620	19.31	TN	12-340	0		
12-340	05/04/2018	144976	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,380	19.69	TN	12-340	0		
12-340	05/04/2018	144979	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,620	20.81	TN	12-340	0		
12-340	05/04/2018	144981	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/04/2018	144983	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,680	21.34	TN	12-340	0		
12-340	05/04/2018	144984	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,800	20.40	TN	12-340	0		
12-340	05/04/2018	144989	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,860	19.43	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/04/2018	144990	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,160	17.08	TN	12-340	0		
12-340	05/04/2018	144997	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,180	18.09	TN	12-340	0		
12-340	05/04/2018	145000	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,020	20.51	TN	12-340	0		
12-340	05/04/2018	145002	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/04/2018	145006	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,300	21.15	TN	12-340	0		
12-340	05/04/2018	145020	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,880	20.44	TN	12-340	0		
12-340	05/04/2018	145022	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,460	21.23	TN	12-340	0		
12-340	05/04/2018	145024	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,180	19.59	TN	12-340	0		
12-340	05/04/2018	145025	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/04/2018	145029	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,920	19.96	TN	12-340	0		
12-340	05/04/2018	145031	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,580	19.29	TN	12-340	0		
12-340	05/04/2018	145033	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,020	21.51	TN	12-340	0		
12-340	05/07/2018	145051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/07/2018	145055	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,360	22.18	TN	12-340	0		
12-340	05/07/2018	145056	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,680	20.84	TN	12-340	0		
12-340	05/07/2018	145060	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,440	21.22	TN	12-340	0		
12-340	05/07/2018	145061	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,660	22.83	TN	12-340	0		
12-340	05/07/2018	145062	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,080	22.54	TN	12-340	0		
12-340	05/07/2018	145064	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,820	21.91	TN	12-340	0		
12-340	05/07/2018	145066	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,760	19.88	TN	12-340	0		
12-340	05/07/2018	145070	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,360	20.68	TN	12-340	0		
12-340	05/07/2018	145071	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/07/2018	145072	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145075	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145079	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,420	19.71	TN	12-340	0		
12-340	05/07/2018	145080	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,140	18.57	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/07/2018	145082	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,820	18.41	TN	12-340	0		
12-340	05/07/2018	145084	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,360	17.68	TN	12-340	0		
12-340	05/07/2018	145092	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,700	17.85	TN	12-340	0		
12-340	05/07/2018	145093	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/07/2018	145094	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,860	16.93	TN	12-340	0		
12-340	05/07/2018	145098	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,160	20.08	TN	12-340	0		
12-340	05/07/2018	145109	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,780	21.39	TN	12-340	0		
12-340	05/07/2018	145112	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,900	18.95	TN	12-340	0		
12-340	05/07/2018	145116	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20.99	TN	12-340	0		
12-340	05/07/2018	145117	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,260	17.13	TN	12-340	0		
12-340	05/07/2018	145123	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,820	18.91	TN	12-340	0		
12-340	05/07/2018	145127	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,120	19.56	TN	12-340	0		
12-340	05/07/2018	145128	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,740	18.87	TN	12-340	0		
12-340	05/07/2018	145132	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,300	19.65	TN	12-340	0		
12-340	05/08/2018	145143	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,660	20.33	TN	12-340	0		
12-340	05/08/2018	145145	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/08/2018	145147	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,700	19.85	TN	12-340	0		
12-340	05/08/2018	145150	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,120	20.06	TN	12-340	0		
12-340	05/08/2018	145157	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		
12-340	05/08/2018	145158	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,980	20.99	TN	12-340	0		
12-340	05/08/2018	145160	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,140	20.07	TN	12-340	0		
12-340	05/08/2018	145162	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/08/2018	145164	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/08/2018	145167	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,680	18.84	TN	12-340	0		
12-340	05/08/2018	145168	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,040	20.52	TN	12-340	0		
12-340	05/08/2018	145169	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,920	20.96	TN	12-340	0		

Scale Acct.	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/08/2018	145176	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	50,160	25.08	TN	12-340	0		
12-340	05/08/2018	145177	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,460	22.23	TN	12-340	0		
12-340	05/08/2018	145179	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,820	23.91	TN	12-340	0		
12-340	05/08/2018	145182	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/08/2018	145187	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,780	22.89	TN	12-340	0		
12-340	05/08/2018	145188	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,180	20.09	TN	12-340	0		
12-340	05/08/2018	145190	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,760	20.38	TN	12-340	0		
12-340	05/08/2018	145193	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,200	18.10	TN	12-340	0		
12-340	05/08/2018	145201	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,280	17.64	TN	12-340	0		
12-340	05/08/2018	145204	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,400	20.70	TN	12-340	0		
12-340	05/08/2018	145209	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,140	19.07	TN	12-340	0		
12-340	05/08/2018	145212	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,180	21.09	TN	12-340	0		
12-340	05/08/2018	145221	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,860	17.43	TN	12-340	0		
12-340	05/08/2018	145222	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,460	18.73	TN	12-340	0		
12-340	05/08/2018	145226	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,140	19.57	TN	12-340	0		
12-340	05/08/2018	145227	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,360	18.18	TN	12-340	0		
12-340	05/09/2018	145239	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,500	17.75	TN	12-340	0		
12-340	05/09/2018	145241	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,900	19.45	TN	12-340	0		
12-340	05/09/2018	145243	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,720	17.86	TN	12-340	0		
12-340	05/09/2018	145245	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,080	17.54	TN	12-340	0		
12-340	05/09/2018	145247	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,540	20.27	TN	12-340	0		
12-340	05/09/2018	145248	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,180	17.59	TN	12-340	0		
12-340	05/09/2018	145250	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/09/2018	145251	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,340	17.67	TN	12-340	0		
12-340	05/09/2018	145260	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,040	20.02	TN	12-340	0		
12-340	05/09/2018	145263	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,760	20.38	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/09/2018	145264	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,100	20.05	TN	12-340	0		
12-340	05/09/2018	145267	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,420	20.21	TN	12-340	0		
12-340	05/09/2018	145269	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,740	21.37	TN	12-340	0		
12-340	05/09/2018	145271	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,220	18.11	TN	12-340	0		
12-340	05/09/2018	145272	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,820	21.41	TN	12-340	0		
12-340	05/09/2018	145273	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,220	17.11	TN	12-340	0		
12-340	05/09/2018	145283	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	28,880	14.44	TN	12-340	0		
12-340	05/09/2018	145288	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,920	18.46	TN	12-340	0		
12-340	05/09/2018	145291	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,660	18.33	TN	12-340	0		
12-340	05/09/2018	145292	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,100	17.05	TN	12-340	0		
12-340	05/09/2018	145294	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,680	17.84	TN	12-340	0		
12-340	05/09/2018	145297	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,480	21.24	TN	12-340	0		
12-340	05/09/2018	145300	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,200	16.60	TN	12-340	0		
12-340	05/09/2018	145305	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/09/2018	145312	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,560	20.28	TN	12-340	0		
12-340	05/09/2018	145318	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/09/2018	145319	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12-340	0		
12-340	05/09/2018	145317	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,860	18.94	TN	12-340	0		
12-340	05/09/2018	145322	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,320	19.66	TN	12-340	0		
12-340	05/09/2018	145326	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,320	20.16	TN	12-340	0		
12-340	05/09/2018	145328	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,020	18.51	TN	12-340	0		
12-340	05/09/2018	145331	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,160	22.08	TN	12-340	0		
12-340	05/10/2018	145338	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,800	20.90	TN	12-340	0		
12-340	05/10/2018	145340	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,880	20.94	TN	12-340	0		
12-340	05/10/2018	145337	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,780	20.89	TN	12-340	0		
12-340	05/10/2018	145343	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,420	22.21	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145347	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	45,440	22.72	TN	12-340	0		
12-340	05/10/2018	145348	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	49,920	24.96	TN	12-340	0		
12-340	05/10/2018	145349	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,200	20.10	TN	12-340	0		
12-340	05/10/2018	145350	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,860	22.43	TN	12-340	0		
12-340	05/10/2018	145359	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,540	20.77	TN	12-340	0		
12-340	05/10/2018	145361	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,760	20.88	TN	12-340	0		
12-340	05/10/2018	145363	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,060	19.03	TN	12-340	0		
12-340	05/10/2018	145368	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,220	20.11	TN	12-340	0		
12-340	05/10/2018	145371	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,240	20.12	TN	12-340	0		
12-340	05/10/2018	145373	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,380	19.19	TN	12-340	0		
12-340	05/10/2018	145374	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,620	19.81	TN	12-340	0		
12-340	05/10/2018	145375	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,780	20.89	TN	12-340	0		
12-340	05/10/2018	145381	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,960	17.98	TN	12-340	0		
12-340	05/10/2018	145383	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/10/2018	145386	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,260	20.13	TN	12-340	0		
12-340	05/10/2018	145388	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,200	17.60	TN	12-340	0		
12-340	05/10/2018	145394	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,560	19.78	TN	12-340	0		
12-340	05/10/2018	145396	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,300	18.15	TN	12-340	0		
12-340	05/10/2018	145401	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,820	20.91	TN	12-340	0		
12-340	05/10/2018	145403	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,640	22.32	TN	12-340	0		
12-340	05/10/2018	145414	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,840	17.42	TN	12-340	0		
12-340	05/10/2018	145416	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,400	19.20	TN	12-340	0		
12-340	05/10/2018	145421	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/10/2018	145422	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,200	20.60	TN	12-340	0		
12-340	05/10/2018	145424	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,820	18.41	TN	12-340	0		
12-340	05/10/2018	145427	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,300	17.15	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/10/2018	145428	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,960	18.48	TN	12-340	0		
12-340	05/11/2018	145439	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,940	22.47	TN	12-340	0		
12-340	05/11/2018	145440	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,180	23.59	TN	12-340	0		
12-340	05/11/2018	145442	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	47,840	23.92	TN	12-340	0		
12-340	05/11/2018	145444	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	48,940	24.47	TN	12-340	0		
12-340	05/11/2018	145446	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,620	20.31	TN	12-340	0		
12-340	05/11/2018	145447	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/11/2018	145449	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,460	21.23	TN	12-340	0		
12-340	05/11/2018	145451	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,060	22.03	TN	12-340	0		
12-340	05/11/2018	145455	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,720	18.86	TN	12-340	0		
12-340	05/11/2018	145457	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,160	19.08	TN	12-340	0		
12-340	05/11/2018	145458	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,380	19.69	TN	12-340	0		
12-340	05/11/2018	145464	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,840	20.92	TN	12-340	0		
12-340	05/11/2018	145466	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,240	19.12	TN	12-340	0		
12-340	05/11/2018	145469	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,000	21.00	TN	12-340	0		
12-340	05/11/2018	145470	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,520	19.76	TN	12-340	0		
12-340	05/11/2018	145478	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,480	19.24	TN	12-340	0		
12-340	05/11/2018	145480	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,360	17.68	TN	12-340	0		
12-340	05/11/2018	145481	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,200	17.10	TN	12-340	0		
12-340	05/11/2018	145492	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,740	19.87	TN	12-340	0		
12-340	05/11/2018	145493	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/11/2018	145501	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,740	19.37	TN	12-340	0		
12-340	05/11/2018	145499	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,720	17.36	TN	12-340	0		
12-340	05/14/2018	145525	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,280	18.64	TN	12-340	0		
12-340	05/14/2018	145528	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/14/2018	145536	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,140	18.57	TN	12-340	0		

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Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/14/2018	145542	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,800	19.90	TN	12-340	0		
12-340	05/14/2018	145549	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,920	21.46	TN	12-340	0		
12-340	05/14/2018	145553	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,480	18.74	TN	12-340	0		
12-340	05/14/2018	145554	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,260	21.13	TN	12-340	0		
12-340	05/14/2018	145555	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,560	21.78	TN	12-340	0		
12-340	05/14/2018	145556	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,120	22.06	TN	12-340	0		
12-340	05/14/2018	145570	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,100	18.55	TN	12-340	0		
12-340	05/14/2018	145573	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,680	19.84	TN	12-340	0		
12-340	05/14/2018	145574	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,180	17.09	TN	12-340	0		
12-340	05/14/2018	145576	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/14/2018	145581	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,200	19.10	TN	12-340	0		
12-340	05/14/2018	145582	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,380	16.69	TN	12-340	0		
12-340	05/14/2018	145585	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,820	16.91	TN	12-340	0		
12-340	05/14/2018	145591	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,560	18.78	TN	12-340	0		
12-340	05/14/2018	145592	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,600	19.30	TN	12-340	0		
12-340	05/14/2018	145608	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,440	17.22	TN	12-340	0		
12-340	05/14/2018	145613	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,280	18.64	TN	12-340	0		
12-340	05/14/2018	145614	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12-340	0		
12-340	05/14/2018	145616	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,040	17.52	TN	12-340	0		
12-340	05/14/2018	145623	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,540	19.27	TN	12-340	0		
12-340	05/14/2018	145625	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,660	17.33	TN	12-340	0		
12-340	05/14/2018	145626	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	31,820	15.91	TN	12-340	0		
12-340	05/14/2018	145640	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,440	17.72	TN	12-340	0		
12-340	05/14/2018	145643	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,900	18.45	TN	12-340	0		
12-340	05/14/2018	145650	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,580	16.79	TN	12-340	0		
12-340	05/14/2018	145660	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	29,700	14.85	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/14/2018	145667	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,540	18.27	TN	12-340	0		
12-340	05/14/2018	145669	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,360	21.18	TN	12-340	0		
12-340	05/14/2018	145673	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		
12-340	05/14/2018	145674	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,720	19.36	TN	12-340	0		
12-340	05/14/2018	145676	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,980	18.99	TN	12-340	0		
12-340	05/15/2018	145684	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,260	18.63	TN	12-340	0		
12-340	05/15/2018	145689	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/15/2018	145692	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,580	20.79	TN	12-340	0		
12-340	05/15/2018	145697	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,720	19.86	TN	12-340	0		
12-340	05/15/2018	145702	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,660	20.83	TN	12-340	0		
12-340	05/15/2018	145705	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,580	20.29	TN	12-340	0		
12-340	05/15/2018	145706	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,940	19.47	TN	12-340	0		
12-340	05/15/2018	145707	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,620	17.81	TN	12-340	0		
12-340	05/15/2018	145717	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,780	17.89	TN	12-340	0		
12-340	05/15/2018	145720	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,840	18.92	TN	12-340	0		
12-340	05/15/2018	145722	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,400	20.20	TN	12-340	0		
12-340	05/15/2018	145724	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,560	19.28	TN	12-340	0		
12-340	05/15/2018	145730	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/15/2018	145734	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,340	20.17	TN	12-340	0		
12-340	05/15/2018	145733	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,560	16.78	TN	12-340	0		
12-340	05/15/2018	145739	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,580	17.79	TN	12-340	0		
12-340	05/15/2018	145754	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,760	18.88	TN	12-340	0		
12-340	05/15/2018	145755	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,380	19.19	TN	12-340	0		
12-340	05/15/2018	145756	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,480	19.74	TN	12-340	0		
12-340	05/15/2018	145757	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,320	20.66	TN	12-340	0		
12-340	05/15/2018	145763	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,320	21.16	TN	12-340	0		

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12-340	05/15/2018	145765	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,920	18.96	TN	12-340	0		
12-340	05/15/2018	145774	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,360	18.18	TN	12-340	0		
12-340	05/15/2018	145780	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,680	18.84	TN	12-340	0		
12-340	05/15/2018	145799	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,940	19.97	TN	12-340	0		
12-340	05/15/2018	145801	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,900	19.95	TN	12-340	0		
12-340	05/15/2018	145804	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,500	18.25	TN	12-340	0		
12-340	05/15/2018	145805	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,680	19.84	TN	12-340	0		
12-340	05/15/2018	145807	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,740	18.87	TN	12-340	0		
12-340	05/15/2018	145808	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,520	17.26	TN	12-340	0		
12-340	05/15/2018	145813	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,440	19.72	TN	12-340	0		
12-340	05/16/2018	145826	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,120	19.06	TN	12-340	0		
12-340	05/16/2018	145829	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/16/2018	145832	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,360	19.68	TN	12-340	0		
12-340	05/16/2018	145834	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/16/2018	145835	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,640	19.32	TN	12-340	0		
12-340	05/16/2018	145837	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,780	21.39	TN	12-340	0		
12-340	05/16/2018	145838	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	46,060	23.03	TN	12-340	0		
12-340	05/16/2018	145839	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,540	19.77	TN	12-340	0		
12-340	05/16/2018	145841	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,620	20.81	TN	12-340	0		
12-340	05/16/2018	145853	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,620	22.31	TN	12-340	0		
12-340	05/16/2018	145854	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,240	19.62	TN	12-340	0		
12-340	05/16/2018	145857	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,300	21.65	TN	12-340	0		
12-340	05/16/2018	145860	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,200	20.60	TN	12-340	0		
12-340	05/16/2018	145862	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,400	21.20	TN	12-340	0		
12-340	05/16/2018	145866	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,540	19.77	TN	12-340	0		
12-340	05/16/2018	145869	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,500	21.75	TN	12-340	0		

Scale Acct	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/16/2018	145873	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,540	16.77	TN	12-340	0		
12-340	05/16/2018	145875	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,220	19.61	TN	12-340	0		
12-340	05/16/2018	145890	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,560	22.28	TN	12-340	0		
12-340	05/16/2018	145894	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,620	18.81	TN	12-340	0		
12-340	05/16/2018	145898	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,340	19.17	TN	12-340	0		
12-340	05/16/2018	145899	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,900	19.45	TN	12-340	0		
12-340	05/16/2018	145901	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,640	17.32	TN	12-340	0		
12-340	05/16/2018	145910	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,340	18.67	TN	12-340	0		
12-340	05/16/2018	145911	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,400	20.20	TN	12-340	0		
12-340	05/16/2018	145913	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18.60	TN	12-340	0		
12-340	05/16/2018	145918	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,520	19.76	TN	12-340	0		
12-340	05/16/2018	145943	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	44,060	22.03	TN	12-340	0		
12-340	05/16/2018	145944	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,720	17.86	TN	12-340	0		
12-340	05/16/2018	145947	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,020	19.01	TN	12-340	0		
12-340	05/16/2018	145949	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	33,680	16.84	TN	12-340	0		
12-340	05/16/2018	145950	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/16/2018	145954	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,860	19.43	TN	12-340	0		
12-340	05/16/2018	145957	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,500	20.25	TN	12-340	0		
12-340	05/16/2018	145958	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	32,060	16.03	TN	12-340	0		
12-340	05/16/2018	145959	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,500	19.25	TN	12-340	0		
12-340	05/17/2018	145965	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,640	18.82	TN	12-340	0		
12-340	05/17/2018	145969	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,080	19.54	TN	12-340	0		
12-340	05/17/2018	145972	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,820	20.41	TN	12-340	0		
12-340	05/17/2018	145984	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,040	18.52	TN	12-340	0		
12-340	05/17/2018	145985	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,420	17.71	TN	12-340	0		
12-340	05/17/2018	145989	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,360	19.18	TN	12-340	0		

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12-340	05/17/2018	145993	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,280	18.14	TN	12-340	0		
12-340	05/17/2018	145998	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,960	19.98	TN	12-340	0		
12-340	05/17/2018	146001	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,200	18.60	TN	12-340	0		
12-340	05/17/2018	146002	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,920	18.46	TN	12-340	0		
12-340	05/17/2018	146008	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,980	18.49	TN	12-340	0		
12-340	05/17/2018	146010	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,040	18.02	TN	12-340	0		
12-340	05/17/2018	146017	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,700	20.35	TN	12-340	0		
12-340	05/17/2018	146023	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,120	18.56	TN	12-340	0		
12-340	05/17/2018	146026	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,500	18.75	TN	12-340	0		
12-340	05/17/2018	146030	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,020	20.01	TN	12-340	0		
12-340	05/17/2018	146029	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,320	19.66	TN	12-340	0		
12-340	05/17/2018	146049	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,820	19.41	TN	12-340	0		
12-340	05/17/2018	146051	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,100	18.05	TN	12-340	0		
12-340	05/17/2018	146055	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	42,400	21.20	TN	12-340	0		
12-340	05/17/2018	146062	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,440	18.22	TN	12-340	0		
12-340	05/17/2018	146071	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,180	19.09	TN	12-340	0		
12-340	05/17/2018	146073	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,180	18.59	TN	12-340	0		
12-340	05/17/2018	146074	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,000	19.50	TN	12-340	0		
12-340	05/18/2018	146092	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,920	19.46	TN	12-340	0		
12-340	05/18/2018	146094	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,180	20.09	TN	12-340	0		
12-340	05/18/2018	146099	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,720	19.86	TN	12-340	0		
12-340	05/18/2018	146101	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	43,820	21.91	TN	12-340	0		
12-340	05/18/2018	146112	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,180	20.59	TN	12-340	0		
12-340	05/18/2018	146115	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,460	19.23	TN	12-340	0		
12-340	05/18/2018	146121	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,000	18.50	TN	12-340	0		
12-340	05/18/2018	146122	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	41,420	20.71	TN	12-340	0		

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Scale Acct #	Date	Ticket	Sz/Chg	Description	In/Out	Vehicle	Material	Net Weight	Quantity	Unit	WO Acct	Work Order	Manifest	Comment
12-340	05/18/2018	146124	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,940	18.47	TN	12-340	0		
12-340	05/18/2018	146126	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,920	19.46	TN	12-340	0		
12-340	05/18/2018	146127	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,680	20.34	TN	12-340	0		
12-340	05/18/2018	146130	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,300	18.15	TN	12-340	0		
12-340	05/18/2018	146142	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,580	17.79	TN	12-340	0		
12-340	05/18/2018	146144	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	36,380	18.19	TN	12-340	0		
12-340	05/18/2018	146157	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	40,960	20.48	TN	12-340	0		
12-340	05/18/2018	146159	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	34,620	17.31	TN	12-340	0		
12-340	05/18/2018	146164	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	35,700	17.85	TN	12-340	0		
12-340	05/18/2018	146169	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	38,700	19.35	TN	12-340	0		
12-340	05/18/2018	146174	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	37,460	18.73	TN	12-340	0		
12-340	05/18/2018	146175	PK NT	NON SPCL WASTE TONS	I	BEAIRD	NONTN	39,880	19.94	TN	12-340	0		
Tickets: 399									Avg /Ticket: 19.46					
									7,763.51					

Appendix D
Scale Tickets of Backfill Materials

Lumley Trucking LLC

P.O. Box 111

Barry, IL 62312 Fein # 04-3765032

Phone 217-335-2400 Office; or 217-242-1895 Butch

Date:

6-6-18

Electronic Filing: Received, Clerk's Office 10/23/2020

Delivery Information:

#209

Gross: 74,500

Net: 42,000

Tare: 32,500

Product: DIRT

Contracted Delivery

Tons
21

Rate

Tractor Work:

Delivery Charge:

Total Amount Due:

Lumley Trucking LLC

P.O. Box 111

Barry, IL 62312 Fein # 04-3765032

Phone 217-335-2400 Office; or 217-242-1895 Butch

Date:

6-6-18

Delivery Information:

Gross: 72,000

Net: ~~30~~ 41,500

Tare: 30,500

Product: DIRT

Contracted Delivery

Tons

Rate

Tractor Work:

20.75 T

116 WARD

Delivery Charge:

Total Amount Due:

~~30,500~~ T

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Electronic Filing: Received, Clerk's Office 10/23/2020

Delivery Information:

Gross: 72,300
Net: 41,800
Tare: 30,500

Product:

Contracted Delivery
Tons Rate
20.9T

Tractor Work: 116 WARTS

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC
P.O. Box 111
Barry, IL 62312 Fein # 04-3765032
Phone 217-335-2400 Office; or 217-242-1895 Butch

Date: 6-6-18

Delivery Information: # 209

Gross: 72,600
Net: 40,000
Tare: 32,500

Product:

Dirt
Contracted Delivery
Tons Rate
20

Tractor Work:

Delivery Charge:
Total Amount Due:

Lumley Trucking LLC

P.O. Box 111

Barry, IL 62312 Fein # 04-3765032

Phone 217-335-2400 Office; or 217-242-1895 Butch

Date:

6-16-18

Electronic Filing: Received, Clerk's Office 10/23/2020

202

Delivery Information:

Gross: 75,000

Net: 44,000

Tare: 31,000

Product: Dirt

Contracted Delivery

Tons 22 Rate

Tractor Work:

Delivery Charge:

Total Amount Due:

Lumley Trucking LLC

P.O. Box 111

Barry, IL 62312 Fein # 04-3765032

Phone 217-335-2400 Office; or 217-242-1895 Butch

Date:

6-16-18

202

Delivery Information:

Gross: 73,000

Net: 42,000

Tare: 31,000

Product: Dirt

Contracted Delivery

Tons 21 Rate

Tractor Work:

Delivery Charge:

Total Amount Due:

Florence Quarry CS33
26175 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Central Stone Company

Electronic Filing: Received, Clerk's Office 10/23/2020

Ticket No: 210303
Plant: (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-8-17

CUSTOMER: Chase Chase environmental

PRODUCT:

ORDER: Chase col

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons	75.00	37.80
TARE				
NET				
				TOTAL

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
ILDOT# 5149204 Main Office: (309) 757-8250

TICKET NO: 30464889 ORIGINAL
Date: 5/18/2018
Time Out: 07:17

ORIGINAL



Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
P O BOX AB CENTRALIA, IL 62801
(618) 533-6740
Order: CHASEE002 CLAYTON IL FILL JOB
P.O./Job:
Today's Totals: 81.52 Tons (US) 4 Loads

	Pounds	Tons (US)
Material: CM6SP		
Desc: 079CM06 IL ST BASE		
Billed Units: 19.38		
Gross	72020	36.01
Tare	33260	16.63
Net	38760	19.38

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN
Vehicle: P499087 Driver: LUMLEY 108
Delivery: Del/Pickup: Pickup

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33 Central Stone Company
26176 487th Street Pittsfield, Illinois 62363 Plant: (217) 723-4410
ILDOT# 5149204 Main Office: (309) 757-8250

TICKET NO: 30464886 ORIGINAL
Date: 5/18/2018
Time Out: 07:12

ORIGINAL



Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
P O BOX AB CENTRALIA, IL 62801
(618) 533-6740
Order: CHASEE002 CLAYTON IL FILL JOB
P.O./Job:
Today's Totals: 20.64 Tons (US) 1 Loads

	Pounds	Tons (US)
Material: CM6SP		
Desc: 079CM06 IL ST BASE		
Billed Units: 20.64		
Gross	72560	36.28
Tare	31280	15.64
Net	41280	20.64

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN
Vehicle: P882468 Driver: LUMLEY 116 GREG
Delivery: Del/Pickup: Pickup

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33 Central Stone Company

26176 487th Street Pittsfield, Illinois 62363

ILDOT# 5149204

Plant: (217) 723-4410

Main Office: (309) 757-8250

TICKET NO: 30464887

Date: 5/18/2018

Time Out: 07:13

ORIGINAL

Electronic Filing Received Clerk's Office 10/23/2020



Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
 P O BOX AB CENTRALIA, IL 62801
 (618) 533-6740
 Order: CHASEE002 CLAYTON IL FILL JOB

P.O./Job:
 Today's Totals: 41.46 Tons (US) 2 Loads

Material: CM6SP
 Desc: 079CM06 IL ST BASE
 Billed Units: 20.82 Tons (US)

	Pounds	Tons (US)
Gross	74480	37.24
Tare	32840	16.42
Net	41640	20.82

Rate: Carrier: LUMTRK LUMLEY TRUCKING LLC - CEN
 Vehicle: P980940 Driver: LUMLEY #209
 Delivery: Del/Pickup: Pickup

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33 Central Stone Company

26176 487th Street Pittsfield, Illinois 62363

ILDOT# 5149204

Plant: (217) 723-4410

Main Office: (309) 757-8250

TICKET NO: 30464888

Date: 5/18/2018

Time Out: 07:16

ORIGINAL



Customer: CHASEE CHASE ENVIRONMENTAL GROUP INC (CS)
 P O BOX AB CENTRALIA, IL 62801
 (618) 533-6740
 Order: CHASEE002 CLAYTON IL FILL JOB

P.O./Job:
 Today's Totals: 62.14 Tons (US) 3 Loads

Material: CM6SP
 Desc: 079CM06 IL ST BASE
 Billed Units: 20.68 Tons (US)

	Pounds	Tons (US)
Gross	73440	36.72
Tare	32080	16.04
Net	41360	20.68

Rate: Carrier: LUMLEY TRUCKING
 Vehicle: P980941 Driver: LUMLEY TRUCKING
 Delivery: Del/Pickup: Pickup

	Rate	Amount
Tax: 122	7.750	
Fees:		

Driver's signature: _____

Rec'd by: _____

customer copy 1

Florence Quarry CS33 Central Stone Company

26176 487 St. Pittsfield, IL 62363

ILDOT# 5149204

Ticket No: 210304

Plant (217) 723-4410

Main Office: (309) 757-8250

DATE: 5-9-18

CUSTOMER: Chase Chase Environmental

PRODUCT: 3 mins / clean

ORDER: Chase co

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		399 tons	\$100	At 100
TARE		Plant Tax		
NET				
			TAX:	
			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1
0478

DATE: 5-10-11

CUSTOMER: Chasee (Chase Environmental)

PRODUCT:

ORDER: Chasee col

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		399 tons	5.00	A ton
		plus tax		
TARE				TAX: _____
				FEES: _____
NET				TOTAL

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210301
Plant: (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-13-11

CUSTOMER: Chasee (Chase Environmental)

PRODUCT:

ORDER: Chasee col

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons	5.00	A ton
		plus tax		
TARE				TAX: _____
				FEES: _____
NET				TOTAL

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26178 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210300
Plant: (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-14-11

CUSTOMER: Chasee (Chase Environmental)

PRODUCT: 3 minis / ~~1000~~

ORDER: Chasee col

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		609 tons	5.00	A ton
		plus tax		
TARE				TAX: _____
				FEES: _____
NET				TOTAL

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE

CUSTOMER COPY 1

0479

Florence Quarry CS33 Central Stone Company
26176 487 St. Pittsfield, IL 62383
ILDOT# 5149204

Electronic Filing: Received, Clerk's Office 10/23/2020

Ticket No: 210299
Plant (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-11-12

CUSTOMER: Chase Chase environmental

PRODUCT:

ORDER: Chase coal

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		441 tons	5.00 per ton	
		plus tax		
TARE			TAX:	
			FEES:	
NET			TOTAL	

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26176 487 St. Pittsfield, IL 62383
ILDOT# 5149204

Ticket No: 210305
Plant (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-12-12

CUSTOMER: Chase Chase environmental

PRODUCT: 3 mins

ORDER: Chase coal

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		504 tons	5.00 per ton	
		plus tax		
TARE			TAX:	
			FEES:	
NET			TOTAL	

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
26176 487 St. Pittsfield, IL 62383
ILDOT# 5149204

Ticket No: 210308
Plant (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-17-12

CUSTOMER: Chase Chase environmental

PRODUCT: 3 mins

ORDER: Chase coal

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		483 Tons	5.00 per ton	
		plus tax		
TARE			TAX:	
			FEES:	
NET			TOTAL	

VEHICLE:

NO./JOB:

DELIVERY INFORMATION:

DRIVER'S SIGNATURE CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28176 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Electronic Filing: Received, Clerk's Office 10/23/2020

Ticket No: 210307
Plant (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-18-18

CUSTOMER: Chase chase environmental

PRODUCT: 3 MINUS

ORDER: chaspeal

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		420	5.00 / ton	
TARE			plus tax	
NET				
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

Florence Quarry CS33 Central Stone Company
28176 487 St. Pittsfield, IL 62363
ILDOT# 5149204

Ticket No: 210320
Plant (217) 723-4410
Main Office: (309) 757-8250

DATE: 5-21-18

CUSTOMER: CHASE ENVIRONMENTAL

PRODUCT: 3" MINUS

ORDER: CHASPEAL

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		420	6.5 / ton	
TARE			plus tax	
NET				
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

DATE: 5-22-18

CUSTOMER: CHASE ENVIRONMENTAL

PRODUCT: 3" DOWN

ORDER: CHASE FOOT

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		420		
TARE		63 TON	→ TAX:	
NET			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1

DATE: 5-22-18

CUSTOMER: CHASE ENVIRONMENTAL

PRODUCT: 3" DOWN

ORDER: CHASE FOOT

VEHICLE:

P.O./JOB:

DELIVERY INFORMATION:

	POUNDS	TONS (US)	RATE	AMOUNT
GROSS		410		
TARE		65 TON	→ TAX:	
NET			FEES:	
			TOTAL	

DRIVER'S SIGNATURE

CUSTOMER COPY 1



217/524-3300

Electronic Filing: Received, Clerk's Office 10/23/2020

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

CERTIFIED MAIL #

7017 2680 0001 0206 3067

NOV 15 2018

Ted Parker
c/o Chase Environmental Group, Inc.
2701 East Ash
Springfield, IL 62703

Re: **LPC #0010105006 -- Adams County**
Clayton / Parker's Gas & More, Inc.
101 East Outer Belt Drive
Incident-Claim No.: **951012** -- 69508
Queue Date: August 16, 2018
Leaking UST Fiscal File

Dear Mr. Parker:

The Illinois Environmental Protection Agency (Illinois EPA) has completed the review of your application for payment from the Underground Storage Tank (UST) Fund for the above-referenced Leaking UST incident pursuant to Section 57.8(a) of the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.Subpart F.

This information is dated August 13, 2018 and was received by the Illinois EPA on August 16, 2018. The application for payment covers the period from December 1, 2017 to June 30, 2018. The amount requested is \$577,244.80.

On August 16, 2018, the Illinois EPA received your application for payment for this claim. As a result of Illinois EPA's review of this application for payment, a voucher for \$572,925.56 will be prepared for submission to the Comptroller's Office for payment as funds become available based upon the date the Illinois EPA received your complete request for payment of this application for payment. Subsequent applications for payment that have been/are submitted will be processed based upon the date complete subsequent application for payment requests are received by the Illinois EPA. This constitutes the Illinois EPA's final action with regard to the above application(s) for payment.

The deductible amount for this claim is \$10,000.00, which was previously withheld from your payment(s). Pursuant to Section 57.8(a)(4) of the Act, any deductible, as determined pursuant to the Office of the State Fire Marshal's eligibility and deductibility final determination in accordance with Section 57.9 of the Act, shall be subtracted from any payment invoice paid to an eligible owner or operator.

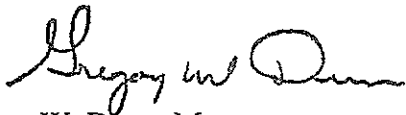
There are costs from this claim that are not being paid. Listed in Attachment A are the costs that are not being paid and the reasons these costs are not being paid.

Page 2

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

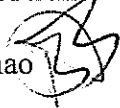
If you have any questions or require further assistance, please contact Melissa Owens of my staff at (217)785-9351.

Sincerely,



Gregory W. Dunn, Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

GWD:mao



Attachments

c: Parker's Gas & More, Inc.
Leaking UST Claims Unit

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

Attachment A
Deductions

Re: LPC #0010105006 -- Adams County
Clayton / Parker's Gas & More, Inc.
101 East Outer Belt Drive
Incident-Claim No.: 951012 -- 69508
Queue Date: August 6, 2018
Leaking UST FISCAL FILE

Citations in this attachment are from the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code).

Item # Description of Deductions

1. \$3,755.42, deduction for costs for Remediation and Disposal, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

520.195 tons at \$6.70 per ton plus 7.75% sales tax are being cut from the Backfill line item because they were provided free of charge.

2. \$563.82, deduction for costs for Consultant's Materials that were not approved in a budget. The overall goal of the financial review must be to assure that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in 35 Ill. Adm. Code 734.Subpart H. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.510(b) and 35 Ill. Adm. Code 734.605(a).

Pursuant to 35 Ill. Adm. Code 734.605(a), costs for which payment is sought must be approved in a budget, provided, however, that no budget must be required for early action activities conducted pursuant to 35 Ill. Adm. Code 734.Subpart B other than free product removal activities conducted more than 45 days after confirmation of the presence of free product. The costs associated with Consultant's Materials were not approved in a budget and are, therefore, ineligible for payment.

In addition, the costs exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Finally, the costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

\$563.82 for grass seed is being cut.

mao

7017 260 000 1000 9020 2006 3067

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 Domestic Mail Only

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Airmail \$

Airmail Restricted Delivery \$

Postage \$

Ted Parker

Total \$ **c/o Chase Environmental Group, Inc.**

\$ **2701 East Ash**

Sent **Springfield, IL 62703**

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SPRINGFIELD, IL
NOV 15 2018
Postmark

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Ted Parker c/o Chase Environmental Group, Inc. 2701 East Ash Springfield, IL 62703</p> <p style="text-align: center;">9590 9402 3341 7227 8210 53</p> <p>2. Article Number (Transfer from service label) 7017208000102063067</p>	<p>A. Signature <input checked="" type="checkbox"/> <i>Ted Parker</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center;"><i>[Redacted Signature]</i></p> <p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
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