

Layman, Robb

From: Sprague, Jeff
Sent: Wednesday, January 29, 2020 12:23 PM
To: jpinion@rka-inc.com
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Sprague, Jeff
Subject: Modeling Report: Additional Corrections

John,

Your follow-up "Addendum" to the modeling report should include these corrections to the American Zinc Recycling Corporation entries in Table 3-1:

- 1.) "Kiln #1 & Kiln #2" should have a lead emissions rate of 0.144 lb/hr, a UTM Easting of 453769.8, and a UTM Northing of 4615223.5.
- 2.) "Crude zinc oxide bin loadout" should have a lead emissions rate of 0.009 lb/hr, a UTM Easting of 453756.94, and a UTM Northing of 4615210.52.
- 3.) "Feed handling system" should have a UTM Easting of 453837.86 and a UTM Northing of 4615177.27.

Best regards.

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

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Layman, Robb

From: Sprague, Jeff
Sent: Thursday, January 30, 2020 8:59 AM
To: ddemirev@rka-inc.com
Cc: jpinion@rka-inc.com; Sprague, Jeff; Bernoteit, Bob; Layman, Robb; Barria, German
Subject: Holcim (US), Inc. coordinates and "Addendum" inclusion

Darina,

The UTM coordinates for the Holcim (US), Inc. (ID# 031600FHQ) emission sources are as follows:

"Portland cement terminal: Cement silo loading" – 452496.4, 4612239.7

"Portland cement terminal: Truck loading/unloading" – 452461.0, 4612136.0

RK and Associates, Inc. provided a response (see e-mail dated November 25, 2019 from John Pinion to Jeff Sprague) to Item #9 in the Agency's comments regarding the modeling protocol. This response provided necessary information and clarity as to the creation of the volume sources representing fugitive emissions in the model. It is recommended that this information be incorporated into the "Addendum" document so as to consolidate relevant and important information regarding the modeling methodology.

Jeff

Jeffrey Sprague
Modeling Unit, Manager
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Layman, Robb

From: Sprague, Jeff
Sent: Friday, January 31, 2020 2:50 PM
To: Layman, Robb; Bernoteit, Bob; Barria, German
Cc: Sprague, Jeff
Subject: FW: ambient air boundary

FYI

From: John Pinion <jpinion@rka-inc.com>
Sent: Friday, January 31, 2020 1:20 PM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Cc: Darina Demirev <ddemirev@rka-inc.com>
Subject: [External] ambient air boundary

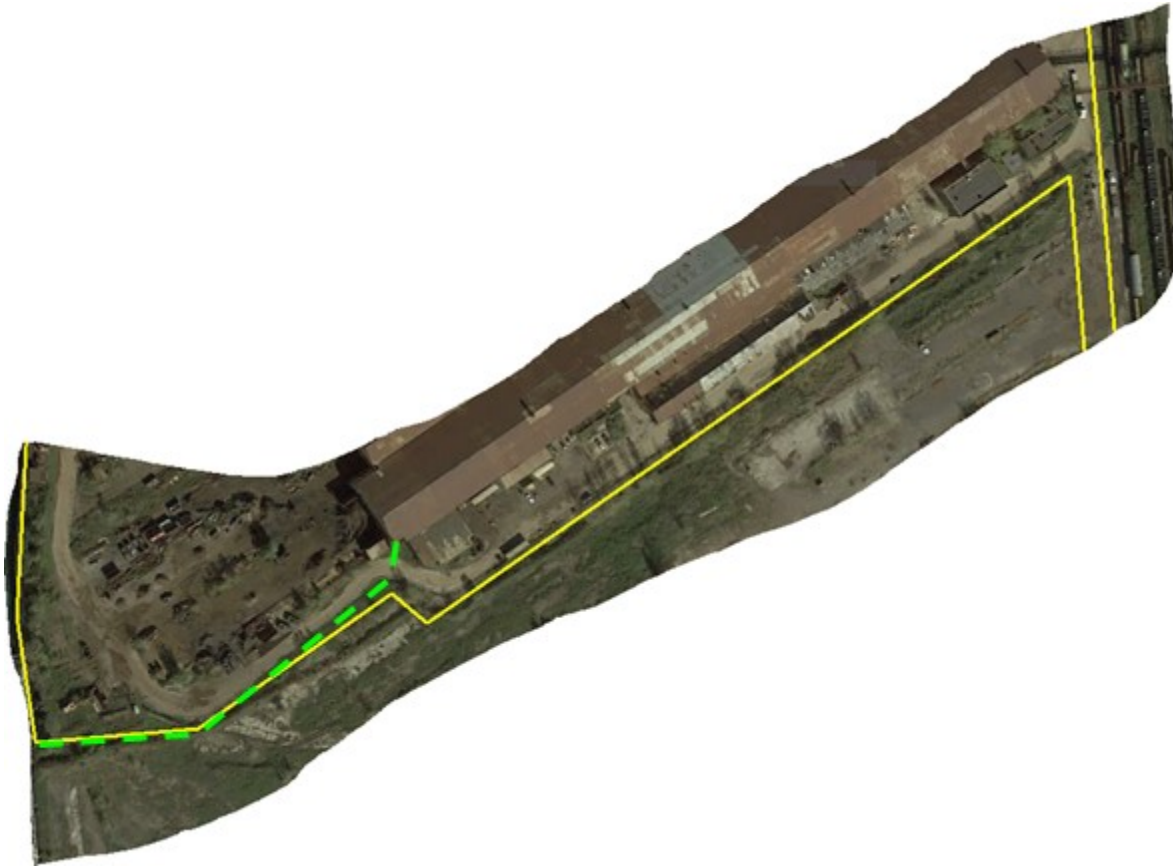


Jeff,

Please call me to discuss the following.

Below is a snip from Google Earth of the south property line. The facility is proposing to move the ambient air boundary approximately 100 feet north so that the south side of the building becomes the barrier. This would limit the amount of other barrier to only the distance between the Calumet River to the southwest corner of the building as shown below (green dashed line). The barrier will be either fencing or a line of shipping containers.

If this is acceptable to you, we will adjust the ambient air boundary in the model and remodel all of the metals. We will also adjust the Ferrous system operating hours as we discussed.



I have also included below, a screen shot from the security camera mounted north of the guard shack viewing southward along the railroad right of way. In the picture below, the south property line is just beyond the overhead pipe bridge. The camera is articulated so the image can be adjusted as may be required. The image from the camera is available on-line to anyone with the proper access credentials. During the day, personnel in the guard shack visually observe the east property line south of the guard shack. During off hours (when the guard shack is not manned) security patrols the east boundary line either on foot or in a vehicle. This system has proven adequate for many years to keep people from gaining casual access to the site.



If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
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Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Wednesday, February 12, 2020 1:14 PM
To: Sprague, Jeff
Cc: Zwick, Ann M.; GII, LLC; Labkon, Adam (adamlabkon@general-iron.com) ; GII, LLC; Kallas, Jim (jimkallas@general-iron.com)
Subject: [External] Supplement No. 1 to the January 24, 2020 GIII Air Dispersion Modeling Report
Attachments: 2020-02-12 GIII Modeling Report - Supplement No 1.pdf



Jeff,

Attached is the Supplement No. 1 to the January 24, 2020, GIII Air Dispersion Modeling Report for Assessment of Metal Impacts. The information included in the attached document addresses your questions and comment received to date.

A hard copy of the attached document (including a disk with the updated model input and output files) has been sent to your attention via overnight mail scheduled for delivery to the IEPA Bureau of Air on Thursday February 13, 2020, by 10:30 AM.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
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February 12, 2020

R17421-7.1

Mr. Jeff Sprague
 Illinois Environmental Protection Agency - Bureau of Air
 1021 North Grand Avenue East
 Springfield, IL 62702

**Supplement No. 1 to the January 24, 2020
 Air Dispersion Modeling Report for Assessment of Metal Emission Impacts
 General III, LLC – 11600 South Burley - Chicago, Illinois
 Construction Permit Application 19090021; Site ID No.: 031600SFX**

Dear Mr. Sprague:

Per our recent discussions, the following supplemental information is being provided to replace information in the above referenced modeling report.

2.6 Modeling Facility Operating Schedule

Section 2.6 is a new section and is being added to identify the operating schedule used in the revised modeling. The modeled operating schedule is as follows:

Site Operation	Modeled Facility Operating Schedule			
	Mon - Fri		Sat	
Ferrous System Operation (includes Shredder)	7 AM to 7 PM	12 hr/day	7 AM to 5 PM	12 hr/day
Barge Loading	7 AM to 3 PM	8 hr/day	7 AM to 3 PM	8 hr/day
Non Ferrous System Operation	5 AM to 11 PM	18 hr/day	5 AM to 11 PM	18 hr/day
Roadway Fugitive Emissions (Facility Vehicular Traffic)	5 AM to 7 PM	14 hr/day	5 AM to 5 PM	12 hr/day

Breaking out the barge loading operating time from the general ferrous material processing system operating time resulted in minor changes to hourly metal emission rates from following Volume Sources in the Ferrous Material Processing System and shredder RTO/Scrubber.

- **Volume Source 10** – includes conveyors downstream from the Z-Box Separators that direct recovered ferrous metal to material stockpiles through the manual picking station to the north or south ferrous material stockpiles (V-11 and V-12 respectively) or to the barge loading conveyors and barge (V-13). During Barge Loading hours, emission estimates assume that 100% of the ferrous metal produced is directed to the Barge. During non-barge loading operating hours, it is

assumed that 50% of the recovered ferrous metal is directed to the north ferrous stockpile and 50% is directed to the south ferrous stockpile.

- **Volume Source 11** – consists of a stacking conveyor and the north ferrous metal stockpile and includes process emissions from stockpile loading, truck loading (out of the stockpile) and stockpile fugitive emissions for active and inactive hours. During barge loading hours, process emissions are zero and emissions are limited to stockpile fugitive emissions.
- **Volume Source 12** – consists of a stacking conveyor and the south ferrous metal stockpile and includes process emissions from stockpile loading, truck loading (out of the stockpile) and stockpile fugitive emissions for active and inactive hours. During barge loading hours, process emissions are zero and emissions are limited to stockpile fugitive emissions.
- **Volume Source 13** – consists of three conveyor transfer points and the barge loading conveyor that direct recovered ferrous metal from the manual picking station to the barge. During barge loading hours, process emissions assume 100 % of recovered ferrous metal are directed to the barge. During Non-barge loading hours, the barge conveyors and barge loading emissions are zero.

Emissions from Volume Sources 1 through 9 were not changed.

Based on the identified changes to barge loading hours described above, metal emissions from the shredder RTO/Scrubber were modified to reflect the measured metal emission factors from the November 2019 emission testing at GII multiplied by a safety factor of 2.

Attachment A to this Supplement No. 1 identifies the revised hourly metal emission rates for the Ferrous Material Processing System described above.

- Revised Tables A-1a and A-1b present a summary of the revised hourly metal emission rates from the Ferrous Material Processing System during modeled operating hours.
- Revised Table A-1c presents a summary of hourly metal emissions from the Ferrous Material Processing System during modeled non-operating hours.
- Revised Table A-2 presents the revised hourly filterable PM process emission rates from each Volume Source in the Ferrous Material Processing System. As described above, changes are limited to Volume Sources V-10, V-11, V-12, and the Shredder RTO/Scrubber.
- Revised Table A-3 presents a summary of hourly fugitive stockpile filterable PM emission rates for active and inactive hours.
- Revised Table A-4 presents a summary of total hourly filterable PM emissions from process emission sources plus stockpile fugitive emissions for each Volume Source in the Ferrous Material Processing System.

Attachment B to this Supplement No. 1 presents the hourly metal emission rates for the Non-Ferrous material Processing System. The hourly emission rates do not change. The tables were updated only to identify the operating schedule identified above.

3.3 Ambient Air Boundaries

The following information is provided to replace existing Section 3.3 in the January 24, 2020, Air Dispersion Modeling Report for Assessment of Metal Emission Impacts (Report) describing the ambient air boundaries used in the modeling analysis.

The ambient air boundary for this modeling analysis is based primarily on the existing property lines of the RMG Industrial Campus as shown in the revised Figure 1-2 below.

West Boundary: The west boundary of the RMG Industrial Campus is defined by the Calumet River. This boundary has not changed from the information presented in the above referenced Report. The elevation difference between the surface of the Calumet River and the top of the existing retaining wall provides adequate access control and marks the ambient air boundary along the west property boundary. Additional signs prohibiting public access to the site will be placed as needed along the west boundary.

North Boundary: The existing fence along the length of the north boundary of the RMG Industrial Campus will prevent casual public access to the property and marks the ambient air boundary for modeling. This boundary has not changed from the information presented in the above referenced Report. Additional signs prohibiting public access to the site will be placed as needed along the north boundary.

East Boundary: The existing fence beginning at the northeast corner of the RMG Industrial Campus extending southward along the east boundary of the site to the existing guard shack will prevent casual public access to the property and marks the ambient air boundary on this portion of the east boundary. This description of this portion of the east boundary has not changed from the information presented in the above referenced Report. Additional signs prohibiting public access to the site will be placed as needed along the existing fence.

Several active rail spurs cross the east boundary of the site between the guard shack and southeast corner of the RMG Industrial Campus property. The installation of fencing along this portion of the east boundary is not practical due to the number of active rail spurs. The east boundary, south of the guard shack is visually observed by security personal located at the guard shack during working hours. When the site is closed, the southern portion of the east boundary (south of the guard shack) is visually observed by security personnel conducting periodic patrols either on foot or in a vehicle. There is also one camera located on a pole near the guard shack that is used to view southward from the guard shack along the eastern property line.

To address comments from IEPA, the boundary control described above will be supplemented with, a second elevated camera installed near the southeast corner of the RMG Industrial Campus property to view northward along the east boundary toward the guard shack. A monitor will also be installed in the guard shack to display the images from the existing camera and the proposed new camera to allow security personnel to regularly view the southern portion of the east boundary.

Additional signs prohibiting public access to the site will be placed as needed along the southern portion of the eastern boundary.

The existing and proposed controls described above will establish the ambient air boundary along the southern portion of the east boundary of the RMG Industrial Campus property.

South Boundary: The initial January 24, 2020 modeling report described the southern ambient air boundary as an existing earthen berm along the southern property line. To address concerns identified by IEPA, the ambient air boundary along the southern property line has been moved northward to parallel the southern exterior wall of an existing building. The existing building marks the ambient air boundary from the southeast corner of the RMG Industrial Campus property westward to the southwest corner of the existing building as shown in the revised Figure 1-2. A barrier, consisting of fencing or shipping containers, will be installed between the southwest corner of the existing building to the Calumet River. This combination of the proposed barrier and the exterior wall of the existing building will mark the southern ambient air boundary.

Signs prohibiting public access to the site will be placed as needed along the existing building and proposed barrier.

3.5 Building Downwash

The initial air modeling report described the use of building downwash parameters for the proposed GIII structures and existing structures on the RMG Industrial Campus property. At the request of IEPA, building downwash parameters provided by the Agency for existing structures on two off-list properties (Site ID Numbers 031600AFV and 031600FJQ), were included in the revised modeling described herein.



2S631 ROUTE 59
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 WARRENVILLE, IL 60555
 630-393-9000/630-393-9111

COMMENTS:
 Air Dispersion Modeling
 Report for the Assessment
 of Metal Emission Impacts

Revised Facility Map
 Ambient Air Boundaries
 General III, LLC
 11600 South Burley, Chicago, IL

FIGURE

1-2

DRAWN BY:	APPROVED BY: JGP	PROJECT NUMBER: R19439-7.10	DATE DRAWN: 02-2020	REVISED DATE:
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3.6 Lead Modeling

The updated version of Table 3-1 presented below identifies the updated source characteristics for offsite lead emission sources provided by IEPA for Sites 031600AFV and 031600FJQ. The updated source characteristics identified in Table 3-1 were used to re-run the air dispersion model for lead emissions. Updated modeling input and output files for lead modeling are presented on a CD ROM provided in Attachment C to this Supplement No. 1.

Table 3-1. Offsite Lead Emission Sources Identified by IEPA

Row #	ID Number	Stack Number	Stack ID	Stack Description	Lead Emissions (lb/hr)	Stack Diameter (ft)	Stack Height (ft)	Flow Rate (acfm)	Stack Temp (F)	UTM Zone	UTM Easting	UTM Northing
1	031600AAR	109	250881	4 Big foot air houses (19.4 million BTU/hr each)	0.00000335	1.76	37	3,000	442	16	453419	4612420
2	031600FGT	3	195877	Cement silo loading	0.000069	2.80	36	10,266	80	16	451809	4617532
3	031600FGT	6	195880	Mixer and/or truck loading	0.0002292	2.90	32	10,220	80	16	451809	4617532
4	031600FHQ	1	121260	Portland cement terminal: Cement silo loading	0.00037	2.25	203	3,000	70	16	452496.4	4612240
5	031600FHQ	2	121261	Portland cement terminal: Truck loading/unloading	0.00222	4.50	120	3,000	70	16	452461	4612136
6	031600GKE	9	222736	Backup generator EDG A	0.000277144	3.00	12	16,200	895	16	454708	4618584
7	031600GKE	10	222737	Backup generator EDG B	0.000277144	3.00	12	16,200	895	16	454708	4618571
8	031600GKE	11	222738	Backup generator EDG C	0.000277144	3.00	12	16,200	895	16	454708	4618559
9	031600AFV	5	118896	Kiln #1 & Kiln #2 ^a	0.144	8.67	102	4,114	181	16	453769.8	4615224
10	031600AFV	27	184788	Crude zinc oxide bin loadout ^a (bag collector 5)	0.009000	8.99	98	123,228	81	16	453756.9	4615211
11	031600AFV	30	184791	Feed handling system ^a	0.0018	1.51	75	4,101	82	16	453837.9	4615177
12	031600GWV	7	234365	Boiler	0.00019	3.77	74	19,740	416	16	454218	4613685

3.7 Manganese Modeling

The updated version of Table 3-3 presented below identifies the updated source characteristics for offsite manganese emission sources provided by IEPA for Sites 031600AFV and 031600FJQ. The updated source characteristics identified in Table 3-3 were used to re-run the air dispersion model for manganese emissions described in this correspondence. Updated modeling input and output files for manganese modeling are presented on a CD ROM provided in Attachment B to this Supplement No. 1.

Table 3-3 - Offsite Manganese Sources Identified by IEPA

ID Number	Stack Number	Stack Id	Stack Description	Mn Emissions (lb/hr)	Stack Diameter (ft)	Stack Height (ft)	Flow Rate (acfm)	Stack Temp (F)	UTM Zone	UTM Northing	UTM Easting
031036AAA	0003	115247	Boiler #3	0.00000152	2.00	25	2,752	300	16	4610011	454809
031036AAA	0004	115248	Boiler #2	0.000000589	2.00	25	2,752	300	16	4610011	454809
031036AAA	0002	115246	Boiler stack #1	0.000000589	3.50	95	2,600	220	16	4610011	454809
031600AAR	0046	118716	60 million BTU/hr boiler	0	3.30	117	19,319	300	16	4612420	453419
031600AAR	0055	118725	Air supply	0	2.30	55	8,000	225	16	4612420	453419
031600AAR	0056	118726	Air supply	0	1.00	45	2,000	245	16	4612420	453419
031600AAR	0088	156582	2 Natural gas fired hot water heaters	0.000001026	3.70	85	17,345	361	16	4612420	453419
031600AAR	0109	250881	4 Big foot air houses (19.4 million BTU/hr each)	0.000002546	1.76	37	3,000	442	16	4612420	453419
031600AAR	0110	250882	2 Hot water stations	0.000001026	1.84	37	3,300	430	16	4612420	453419
031600AAR	0111	250883	Paint line water heater	0.000000266	1.84	37	3,300	430	16	4612420	453419
031600AAR	0112	250884	Other natural gas combustion (curing ovens, oxidizers, space heaters)	0.000039976	1.92	39	4,860	258	16	4612420	453419
031600AAR	0114	250886	Emergency generator	7.4565E-06	2.02	36	12,960	692	16	4612420	453419
031600AFV	0005	118896	Kiln #2	0.065776833	8.67	102	4,115	181	16	4615223.5	453769.8
031600AFV	0035	184796	Engine	0	4.80	56	73,901	503	16	4615216	453823
031600ALC	0002	118971	Boiler	0.000009272	2.50	112	9,520	470	16	4613531	454085
031600AOL	0015	209976	Natural gas combustion	0.000002964	3.40	30	25,373	324	16	4617392	450256
031600BIY	0001	119521	Boiler #1	0.000001748	5.00	90	7,970	565	16	4613129	451612
031600BIY	0024	241900	Boiler #3	0.00000209	2.00	28	4,936	395	16	4613129	451612
031600BRA	0001	119770	Gas heater	0.00000171	2.50	35	700	350	16	4618594	454528
031600DPK	0001	120674	Silo loading	0.000505	2.20	32	12,424	113	16	4619060	454722
031600DQO	0021	173045	Centrifuge Boilers #1 and #2	1.38624E-06	1.83	46	2,050	450	16	4613049	450146
031600FDK	0002	121107	2 Steam generators	0.000001482	2.60	34	1	400	16	4617978	453577
031600FGT	0003	195877	Cement silo loading	0.0189375	2.80	36	10,266	80	16	4617532	451809
031600FGT	0006	195880	Mixer and/or truck loading	0.03672	2.90	32	10,220	80	16	4617532	451809
031600FGT	0007	195881	Natural gas combustion	0.00000342	2.70	50	8,859	341	16	4617532	451809
031600FHQ	0001	121260	Portland cement terminal: Cement silo loading	0.000101	2.26	203	3,000	70	16	4612239.7	452496.4
031600FHQ	0002	121261	Portland cement terminal: Truck loading/unloading	0.000606	4.51	120	3,000	70	16	4612136	452461
031600FHQ	0003	190764	Portland cement terminal: Barge unloader	0	2.80	36	10,266	80	16	4612185	452489
031600FHQ	0004	215253	Slag dryer	0	5.33	157	74,700	183	16	4612141	452468
031600FHQ	0004	215253	Slag dryer	0.000011704	5.33	157	74,700	183	16	4612141	452468
031600FLD	0017	188346	Product collector from shaft dryers (T51-HG1), Cyclone (T51-CN1), and Separator (T61-SR1)	6.65E-09	2.20	90	20,000	205	16	4617602	454330
031600FLD	0016	188345	Polymers (Y-Chutes, top of T61-RP2 bin and T61-RP2), and Aux. dryers (T71-HG2 and T71-HG7)	1.672E-09	2.20	90	3,336	205	16	4617602	454330
031600FWM	0023	233161	Natural gas combustion	0.000005852	3.40	58	15,060	436	16	4613979	453740
031600GFX	0003	193349	Natural gas combustion	0.000006194	2.47	49	9,240	331	16	4617336	450418
031600GHA	0001	219682	Turbine CT-01	0.106666	20.00	90	1,658,000	997	16	4614792	453654
031600GHA	0001	219682	Turbine CT-01	0	20.00	90	1,658,000	997	16	4614792	453654
031600GHA	0003	222391	Turbine CT-02	0.10025	20.00	90	1,658,000	997	16	4614792	453697
031600GHA	0003	222391	Turbine CT-02	0	20.00	90	1,658,000	997	16	4614792	453697
031600GHV	0005	189629	2 Boilers	0.000005434	1.50	35	4,700	330	16	4612395	452774
031600GHV	0005	189629	2 Boilers	0.000004712	1.50	35	4,700	330	16	4612395	452774
031600GKE	0001	219577	Turbine CTG-5	0.0429471	12.14	84	611,000	1050	16	4618643	454621
031600GKE	0009	222736	Backup generator EDG A	0.01563884	3.00	12	16,200	895	16	4618584	454708
031600GKE	0010	222737	Backup generator EDG B	0.01563884	3.00	12	16,200	895	16	4618571	454708
031600GKE	0011	222738	Backup generator EDG C	0.01563884	3.00	12	16,200	895	16	4618559	454708
031600GKE	0002	219591	Turbine CTG-6	0.04244986	12.14	84	611,000	1050	16	4618616	454621
031600GKE	0003	219592	Turbine CTG-7	0.04277066	12.14	84	611,000	1050	16	4618590	454621
031600GKE	0004	219593	Turbine CTG-8	0.04341226	12.14	84	611,000	1050	16	4618564	454621
031600GKE	0005	219594	Turbine CTG-9	0.04197668	12.14	84	611,000	1050	16	4618643	454672
031600GKE	0006	219595	Turbine CTG-10	0.0420248	12.14	84	611,000	1050	16	4618617	454672
031600GKE	0007	219596	Turbine CTG-11	0.04220926	12.14	84	611,000	1050	16	4618590	454672
031600GKE	0008	219597	Turbine CTG-12	0.04207292	12.14	84	611,000	1050	16	4618564	454672
031600GKU	0001	209195	Combined boilers stack	0.00000494	3.00	30	5,150	350	16	4617728	451623
031600GKV	0007	234365	Boiler	0.000127848	3.78	74	19,740	416	16	4613685	454218

3.9 Volume Source Characteristics

This section 3.9 – Volume Source Characteristics has been added to the end of Section 3.0 of the referenced air dispersion modeling report to provide the characteristics of emission unit volume sources (Section 3.9.1.) and roadway volume sources (Section 3.9.2.) used in the model.

3.9.1 Emission Unit Volume Source Characteristics

The Volume Sources outlined in Figures A-1 and B-1 of the January 24, 2020, Air Dispersion Modeling Report, delineate the approximate location of the individual emission units included in each volume source. The model input requires the x and y dimensions for each volume source to be the same and have been input accordingly.

The height of the individual emission units that comprise each volume source was reviewed, and the maximum height is selected as the height of the volume source. The length of the group of sources is selected as the length of the volume source. The volume source parameters entered in the model were derived as follows:

- Release Height = Volume Source Height divided by 2.0
- Initial Lateral Dimensions = Volume Source Length divided by 4.3
- Initial Vertical Dimensions = Volume Source Height divided by 2.15

Table 3-6 provides a summary of the emission unit volume source dimensions used as model inputs.

Table 3-6 – Emission Unit Volume Source Characteristics

Volume Source	Height of Emission Sources (ft)	Length of Source Group (ft)	Release Height (ft)	Initial Lateral Dimensions (ft) (σ_{yo})	Initial Vertical Dimensions (ft) (σ_{zo})
V1	4	10	2.00	2.3256	1.8605
V2	60	84	30.00	19.5349	27.9070
V3	4	6	2.00	1.3953	1.8605
V4	25	50	12.50	11.6279	11.6279
V5	25	20	12.50	4.6512	11.6279
V6	35	60	17.50	13.9535	16.2791
V7	30	20	15.00	4.6512	13.9535
V8	30	20	15.00	4.6512	13.9535
V9	25	25	12.50	5.8140	11.6279
V10	6	20	3.00	4.6512	2.7907
V11	35	120	17.50	27.9070	16.2791
V12	35	120	17.50	27.9070	16.2791
V13	6	20	3.00	4.6512	2.7907
VN1	40	100	20.00	23.2558	18.6047
VN2	40	100	20.00	23.2558	18.6047
VN3	25	100	12.50	23.2558	11.6279
VN4	25	100	12.50	23.2558	11.6279
VN5	25	100	12.50	23.2558	11.6279
VN6	25	40	12.50	9.3023	11.6279



3.9.2 Roadway Volume Sources Characteristics

Roadway emissions are modeled as lines of adjacent volume sources. Haul road recommendations presented in US EPA Memorandum, Haul Road Workgroup Final Report Submission to EPA-OAQPS, are followed. The roadway volume source characteristics are presented in Table 3-7 below.

Table 3-7 –Roadway Volume Source Characteristics

Volume Source Characteristic	Description	Value
Typical vehicle height (VH)	Typical haul vehicle (10 ft)	3.05 m
Top-of-Plume	1.7 x VH	5.18 m
Release Height	½ x Top-of-Plume	2.59 m
Adjusted Road Width	Road width (6 m) + 6 m	12 m
Initial Lateral Dimension (σ_{y0})	Adjusted Road Width / 2.15	5.58 m
Initial Vertical Dimension (σ_{z0})	Top-of-Plume / 2.15	2.41 m
Distance between volume sources	Adjusted Road Width	12 m

4.1 Predicted Lead Impacts

Based on the information described above, the air dispersion modeling for predicted lead impacts was re-run and updated results are presented in Table 4-1 below. The revised modeling continues to show that the identified standards have not been exceeded.

4.2 Predicted Manganese Impacts

Based on the information described above, the air dispersion modeling for predicted manganese impacts was re-run and updated results are presented in Table 4-2 below. The revised modeling continues to show that the identified standards have not been exceeded.

4.3 Predicted Impacts for Other Metals

Based on the information described above, the air dispersion modeling for predicted impacts from other metals was re-run and updated results are presented in Table 4-3 below. The revised modeling continues to show that the identified standards have not been exceeded.

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**Table 4-1 – Summary of Predicted Impacts for Lead**

Pollutant	Maximum 3-Month Rolling Average Period	Predicted Monthly Average ($\mu\text{g}/\text{m}^3$)	Predicted Maximum 3-Month Rolling Average ($\mu\text{g}/\text{m}^3$)	Design Value (Background) ($\mu\text{g}/\text{m}^3$)	Total Predicted 3-Month Rolling Average (w/Background) ($\mu\text{g}/\text{m}^3$)	East (X) (m)	North (Y) (m)
Lead	Oct-12	0.0499	0.0649	0.0200	0.0849	454091	464866
	Nov-12	0.0896					
	Dec-12	0.0552					

Comparison of Modeling Results to NAAQS Standard for Lead

Parameter	Units	3 Month Rolling Average
Pb NAAQS Standard (3-Month Rolling Avg)	$\mu\text{g}/\text{m}^3$	0.15
Maximum Predicted Pb Impact	$\mu\text{g}/\text{m}^3$	0.0849
Predicted Impact Meets Standard	Yes/No	Yes

Table 4-2 – Summary of Predicted Impacts for Manganese

Pollutant	Averaging Period	Year	AERMOD Predicted Conc. ^a ($\mu\text{g}/\text{m}^3$)	Background Conc. ($\mu\text{g}/\text{m}^3$)	Total Predicted Conc. ^a ($\mu\text{g}/\text{m}^3$)	East (X) (m)	North (Y) (m)	Time yy/mm/dd/hh
Mn	24-HR	2012	0.336	0.370	0.706	452000	4617500	12011324
		2013	0.347		0.717	452000	4617500	13013124
		2014	0.326		0.696	452000	4617500	14012724
		2015	0.334		0.704	452000	4617500	15073024
		2016	0.379		0.749	452000	4617500	16120824
	ANNUAL	2012	0.035	0.070	0.105	452000	4617500	1 YEARS
		2013	0.034		0.104	452000	4617500	1 YEARS
		2014	0.038		0.108	452000	4617500	1 YEARS
		2015	0.030		0.100	452000	4617500	1 YEARS
		2016	0.039		0.109	452000	4617500	1 YEARS

a. Maximum 24 hour and annual predicted impacts are highlighted.

Comparison of Modeled Results to Identified Standards

Parameter	Units	24-hr Value	Annual Value
NR445 Standard	$\mu\text{g}/\text{m}^3$	4.80	0.30
ATSDR Minimal Risk Level	$\mu\text{g}/\text{m}^3$	NA	0.30
Total Predicted Impact	$\mu\text{g}/\text{m}^3$	0.749	0.109
Impact Meets Standard	Yes/No	Yes	Yes

Table 4-3 - Comparison of Predicted Maximum Metal Impacts to Identified Standards

Pollutant	Averaging Period	Met Data Year	AERMOD Maximum Predicted Conc. ^a (µg/m ³)	Identified Standard and Source (Pass/Fail)	East (X) (m)	North (Y) (m)	Elevation (m)	Time yy/mm/dd/hh
Antimony	24-HR	2012	0.00198	12.00 ug/m3 NR445	454126	4615088	178.19	12022024
		2013	0.00253		454085	4614965	176.36	13011024
		2014	0.00220		454168	4615111	178.19	14022824
		2015	0.00224	Pass	454126	4615088	178.19	15111724
		2016	0.00228	454126	4615088	178.19	16121624	
	ANNUAL	2012	0.00016	0.30 ug/m3 ATSDR MRL	454251	4615156	178.19	1 YEARS
		2013	0.00013		454251	4615156	178.19	1 YEARS
		2014	0.00013		454251	4615156	178.19	1 YEARS
		2015	0.00014	Pass	454340	4615247	178.19	1 YEARS
		2016	0.00014	454251	4615156	178.19	1 YEARS	
Arsenic	24-HR	2012	0.00080	No Standard Identified	454126	4615088	178.19	12122824
		2013	0.00112		454085	4614965	176.36	13011024
		2014	0.00085		454168	4615111	178.19	14022824
		2015	0.00085		454126	4615088	178.19	15111724
		2016	0.00094		454126	4615088	178.19	16121624
	ANNUAL	2012	0.00007	Unit Risk Factor 0.0043 Inhalation Impact ^a 3.87E-07	454251	4615156	178.19	1 YEARS
		2013	0.00008		454596	4615044	178.19	1 YEARS
		2014	0.00008		454596	4615044	178.19	1 YEARS
		2015	0.00008		454596	4615044	178.19	1 YEARS
		2016	0.00008		Pass	454596	4615044	178.19
Barium	24-HR	2012	0.09159	12.00 ug/m3 NR445	454091	4614866	177.21	12110724
		2013	0.07107		454091	4614866	177.21	13121324
		2014	0.07181		454088	4614915	176.78	14010924
		2015	0.06763	Pass	454091	4614866	177.21	15110924
		2016	0.06038	454091	4614866	177.21	16031424	
	ANNUAL	2012	0.00977	No Standard Identified	454091	4614866	177.21	1 YEARS
		2013	0.00909		454091	4614866	177.21	1 YEARS
		2014	0.00819		454091	4614866	177.21	1 YEARS
		2015	0.00902		454091	4614866	177.21	1 YEARS
		2016	0.00952		454091	4614866	177.21	1 YEARS

a. The maximum predicted 24 hour and annual impacts are highlighted

Table 4-3 - Comparison of Predicted Maximum Metal Impacts to Identified Standards (cont'd)

Pollutant	Averaging Period	Met Data Year	AERMOD Maximum Predicted Conc. ^a (µg/m ³)	Identified Standard and Source (Pass/Fail)	East (X) (m)	North (Y) (m)	Elevation (m)	Time yy/mm/dd/hh	
Beryllium	24-HR	2012	0.00062	No Standard Identified	454596	4614996	178.19	12121724	
		2013	0.00086		454596	4615044	178.19	13011524	
		2014	0.00091		454600	4615000	178.19	14010824	
		2015	0.00068		454596	4615044	178.19	15012224	
		2016	0.00056		454596	4615044	178.19	16112524	
	ANNUAL	2012	0.00009	0.02 ug/m3 NR445 Pass	454596	4615044	178.19	1 YEARS	
		2013	0.00010		454596	4615044	178.19	1 YEARS	
		2014	0.00011		454596	4615044	178.19	1 YEARS	
		2015	0.00010		Unit Risk Factor 0.0024 Inhalation Impact ^a	454596	4615044	178.19	1 YEARS
		2016	0.00010		3.60E-07 Pass	454596	4615044	178.19	1 YEARS
Cadmium	24-HR	2012	0.00430	No Standard Identified	454091	4614866	177.21	12110724	
		2013	0.00345		454091	4614866	177.21	13121324	
		2014	0.00350		454088	4614915	176.78	14010924	
		2015	0.00325		454091	4614866	177.21	15110924	
		2016	0.00296		454091	4614866	177.21	16031424	
	ANNUAL	2012	0.00047	0.01 ug/m3 ATSDR MRL Pass	454091	4614866	177.21	1 YEARS	
		2013	0.00044		454091	4614866	177.21	1 YEARS	
		2014	0.00040		454091	4614866	177.21	1 YEARS	
		2015	0.00044		Unit Risk Factor 0.0018 Inhalation Impact ^a	454091	4614866	177.21	1 YEARS
		2016	0.00047		7.20E-07 Pass	454091	4614866	177.21	1 YEARS
Chromium	24-HR	2012	0.05308	12.00 ug/m3 NR445 Standard Pass	454091	4614866	177.21	12110724	
		2013	0.04369		454088	4614915	176.78	13011024	
		2014	0.03918		454088	4614915	176.78	14010924	
		2015	0.03325		454091	4614866	177.21	15110924	
		2016	0.03280		454091	4614866	177.21	16031424	
	ANNUAL	2012	0.00505	No Standard Identified	454091	4614866	177.21	1 YEARS	
		2013	0.00474		454091	4614866	177.21	1 YEARS	
		2014	0.00434		454596	4615044	178.19	1 YEARS	
		2015	0.00468		454091	4614866	177.21	1 YEARS	
		2016	0.00499		454091	4614866	177.21	1 YEARS	

b. The maximum predicted 24 hour and annual impacts are highlighted



Table 4-3 - Comparison of Predicted Maximum Metal Impacts to Identified Standards (cont'd)

Pollutant	Averaging Period	Met Data Year	AERMOD	Identified Standard and Source (Pass/Fail)	East (X) (m)	North (Y) (m)	Elevation (m)	Time yy/mm/dd/hh
			Maximum Predicted Conc. ^a (µg/m ³)					
Cobalt	24-HR	2012	0.00570		454091	4614866	177.21	12110724
		2013	0.00465	0.48 ug/m3	454088	4614915	176.78	13011024
		2014	0.00448	NR445	454088	4614915	176.78	14010924
		2015	0.00412	Pass	454091	4614866	177.21	15022124
		2016	0.00380		454091	4614866	177.21	16031424
	ANNUAL	2012	0.00059		454091	4614866	177.21	1 YEARS
		2013	0.00055	0.10 ug/m3	454091	4614866	177.21	1 YEARS
		2014	0.00049	ATSDR MRL	454091	4614866	177.21	1 YEARS
		2015	0.00054	Pass	454091	4614866	177.21	1 YEARS
		2016	0.00057		454091	4614866	177.21	1 YEARS
Copper	24-HR	2012	0.20625		454091	4614866	177.21	12110724
		2013	0.15740	24.00 ug/m3	454091	4614866	177.21	13121324
		2014	0.15695	NR445	454088	4614915	176.78	14010924
		2015	0.14908	Pass	454091	4614866	177.21	15110924
		2016	0.13420		454091	4614866	177.21	16031424
	ANNUAL	2012	0.02178		454091	4614866	177.21	1 YEARS
		2013	0.02029	No Standard Identified	454091	4614866	177.21	1 YEARS
		2014	0.01904		454596	4615044	178.19	1 YEARS
		2015	0.02016		454091	4614866	177.21	1 YEARS
		2016	0.02121		454091	4614866	177.21	1 YEARS
Mercury	24-HR	2012	0.07740		454126	4615088	178.19	12022024
		2013	0.09787	2.40 ug/m3	454085	4614965	176.36	13011024
		2014	0.08643	NR445	454168	4615111	178.19	14022824
		2015	0.08811	Pass	454126	4615088	178.19	15111724
		2016	0.08881		454126	4615088	178.19	16121624
	ANNUAL	2012	0.00626		454251	4615156	178.19	1 YEARS
		2013	0.00492	0.30 ug/m3	454251	4615156	178.19	1 YEARS
		2014	0.00494	NR445	454251	4615156	178.19	1 YEARS
		2015	0.00529	Pass	454340	4615247	178.19	1 YEARS
		2016	0.00527	0.20 ug/m3	454251	4615156	178.19	1 YEARS

c. The maximum predicted 24 hour and annual impacts are highlighted

Table 4-3 - Comparison of Predicted Maximum Metal Impacts to Identified Standards (cont'd)

Pollutant	Averaging Period	Met Data Year	AERMOD	Identified Standard and Source (Pass/Fail)	East (X) (m)	North (Y) (m)	Elevation (m)	Time yy/mm/dd/hh
			Maximum Predicted Conc. ^a (µg/m ³)					
Nickel	24-HR	2012	0.03650		454091	4614866	177.21	12110724
		2013	0.03038	No Standard Identified	454088	4614915	176.78	13011024
		2014	0.02770		454088	4614915	176.78	14010924
		2015	0.02406	454091	4614866	177.21	15110924	
		2016	0.02357	454091	4614866	177.21	16031424	
	ANNUAL	2012	0.00366	0.09 ug/m3	454091	4614866	177.21	1 YEARS
		2013	0.00342	NR445/ATSDR MRL Pass	454091	4614866	177.21	1 YEARS
		2014	0.00307	Unit Risk Factor	454091	4614866	177.21	1 YEARS
		2015	0.00339	0.00026 Inhalation Impact ^a	454091	4614866	177.21	1 YEARS
		2016	0.00362	9.52E-07 Pass	454091	4614866	177.21	1 YEARS
	Phosphorus	24-HR	2012	0.23252		454126	4615088	178.19
2013			0.31775	2.43 ug/m3	454085	4614965	176.36	13011024
2014			0.25171	NR445	454168	4615111	178.19	14022824
2015			0.25271	Pass	454126	4615088	178.19	15111724
2016			0.27090		454126	4615088	178.19	16121624
ANNUAL		2012	0.02051		454251	4615156	178.19	1 YEARS
		2013	0.01597	No Standard Identified	454251	4615156	178.19	1 YEARS
		2014	0.01627		454251	4615156	178.19	1 YEARS
		2015	0.01676		454340	4615247	178.19	1 YEARS
		2016	0.01771		454091	4614866	177.21	1 YEARS
Selenium	24-HR	2012	0.01049		454126	4615088	178.19	12022024
		2013	0.01327	4.80 ug/m3	454085	4614965	176.36	13011024
		2014	0.01171	NR445	454168	4615111	178.19	14022824
		2015	0.01194	Pass	454126	4615088	178.19	15111724
		2016	0.01203		454126	4615088	178.19	16121624
	ANNUAL	2012	0.00085		454251	4615156	178.19	1 YEARS
		2013	0.00067	No Standard Identified	454251	4615156	178.19	1 YEARS
		2014	0.00067		454251	4615156	178.19	1 YEARS
		2015	0.00072		454340	4615247	178.19	1 YEARS
		2016	0.00071		454251	4615156	178.19	1 YEARS

d. The maximum predicted 24 hour and annual impacts are highlighted

Table 4-3 - Comparison of Predicted Maximum Metal Impacts to Identified Standards (cont'd)

Pollutant	Averaging Period	Met Data Year	AERMOD Maximum Predicted Conc. ^a (µg/m ³)	Identified Standard and Source (Pass/Fail)	East (X) (m)	North (Y) (m)	Elevation (m)	Time yy/mm/dd/hh	
Silver	24-HR	2012	0.00213	2.40 ug/m3 NR445 Standard	454126	4615088	178.19	12122824	
		2013	0.00302		454085	4614965	176.36	13011024	
		2014	0.00231		454082	4615014	175.94	14010924	
		2015	0.00219		Pass	454126	4615088	178.19	15111724
		2016	0.00246		454126	4615088	178.19	16121624	
	ANNUAL	2012	0.00026	No Standard Identified	454596	4615044	178.19	1 YEARS	
		2013	0.00029		454596	4615044	178.19	1 YEARS	
		2014	0.00030		454596	4615044	178.19	1 YEARS	
		2015	0.00028		454596	4615044	178.19	1 YEARS	
		2016	0.00029		454596	4615044	178.19	1 YEARS	
Thallium	24-HR	2012	0.00024	No Standard Identified	454126	4615088	178.19	12122824	
		2013	0.00034		454085	4614965	176.36	13011024	
		2014	0.00026		454082	4615014	175.94	14010924	
		2015	0.00026		454126	4615088	178.19	15111724	
		2016	0.00028		454126	4615088	178.19	16121624	
	ANNUAL	2012	0.00003	No Standard Identified	454596	4615044	178.19	1 YEARS	
		2013	0.00003		454596	4615044	178.19	1 YEARS	
		2014	0.00003		454596	4615044	178.19	1 YEARS	
		2015	0.00003		454596	4615044	178.19	1 YEARS	
		2016	0.00003		454596	4615044	178.19	1 YEARS	
Zinc	24-HR	2012	3.56760	No Standard Identified	454091	4614866	177.21	12110724	
		2013	2.83587		454088	4614915	176.78	13011024	
		2014	2.90149		454088	4614915	176.78	14010924	
		2015	2.69618		454091	4614866	177.21	15110924	
		2016	2.44070		454091	4614866	177.21	16031424	
	ANNUAL	2012	0.38076	No Standard Identified	454091	4614866	177.21	1 YEARS	
		2013	0.35366		454091	4614866	177.21	1 YEARS	
		2014	0.31644		454091	4614866	177.21	1 YEARS	
		2015	0.34893		454091	4614866	177.21	1 YEARS	
		2016	0.36716		454091	4614866	177.21	1 YEARS	

e. The maximum predicted 24 hour and annual impacts are highlighted

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If you have any questions or need any additional information, please don't hesitate to contact me at 630-393-9000 or by e-mail at jpinion@hotmail.com.

Yours very truly,
RK & Associates

A handwritten signature in cursive script, appearing to read "John A. Pinion".

cc: Mr. Bob Bernoteit – IEPA Bureau of Air – Springfield, Illinois – (Hard Copies)
Mr. Jim Kallas – General III, LLC – Chicago, Illinois (via e-mail)

**Supplement No. 1 to the January 24, 2019
Air Dispersion Modeling Report for
Assessment of Metal Emission Impacts**

**General III, LLC – 11600 South Burley - Chicago, Illinois
Construction Permit Application 19090021; Site ID No.: 031600SFX**

February 12, 2020

Attachment A

**Revised Ferrous Material Processing System Hourly Metal Emission
Rates to Reflect Changes in Operating Schedule**

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**Table A-1a - Ferrous Material Processing - Metal Emissions in Active Hours
General III, LLC - Chicago, Illinois**

Active Hours - Barge Loading 7 AM to 3 PM Monday through Saturday

Volume Source	Units	V-1	V-2	V-3	V-4	V-5	V-6	V-7	V-8	V-9	V-10	V-11	V-12	V-13	RTO ^b
PM (Active)	lb/hr	1.161000	0.140000	0.140000	0.012000	0.188100	0.208700	0.145800	0.024400	0.041100	0.241200	0.199600	0.199600	0.567300	4.700000
Source of Metals Conc. Data ^a	Sample No.	3	3	4	4	4	5	4	4	5	4	4	4	4	Nov 2019 Emission Test Data
	Sample Name	0.0000000	0.0000000	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	
Lead	lb/hr	0.000610	0.000074	0.000592	0.000051	0.000796	0.000985	0.000617	0.000103	0.000194	0.001020	0.000844	0.000844	0.002400	1.383E-03
Manganese	lb/hr	0.000846	0.000102	0.000309	0.000027	0.000416	0.000367	0.000322	0.000054	0.000072	0.000533	0.000441	0.000441	0.001254	1.990E-03
Mercury	lb/hr	0.000003	0.000000	0.000003	0.000000	0.000004	0.000002	0.000003	0.000000	0.000000	0.000005	0.000004	0.000004	0.000011	4.464E-02
Nickel	lb/hr	0.000123	0.000015	0.000043	0.000004	0.000057	0.000065	0.000044	0.000007	0.000013	0.000073	0.000061	0.000061	0.000172	3.296E-03
Antimony	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	1.124E-03
Arsenic	lb/hr	0.000003	0.000000	0.000000	0.000000	0.000001	0.000001	0.000000	0.000000	0.000000	0.000001	0.000001	0.000001	0.000002	3.971E-04
Beryllium	lb/hr	0.000006	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	8.901E-05
Cadmium	lb/hr	0.000006	0.000001	0.000007	0.000001	0.000009	0.000007	0.000007	0.000001	0.000001	0.000011	0.000010	0.000010	0.000027	4.256E-04
Chromium ^c	lb/hr	0.000201	0.000024	0.000056	0.000005	0.000076	0.000089	0.000059	0.000010	0.000017	0.000097	0.000080	0.000080	0.000228	3.452E-03
Cobalt	lb/hr	0.000012	0.000001	0.000007	0.000001	0.000010	0.000012	0.000008	0.000001	0.000002	0.000013	0.000010	0.000010	0.000029	1.064E-04
Phosphorus	lb/hr	0.000313	0.000038	0.000117	0.000010	0.000157	0.000195	0.000121	0.000020	0.000038	0.000201	0.000166	0.000166	0.000473	1.215E-01
Selenium	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	6.047E-03
Zinc	lb/hr	0.003576	0.000431	0.005222	0.000448	0.007016	0.007096	0.005438	0.000910	0.001397	0.008997	0.007445	0.007445	0.021160	2.673E-02
Barium	lb/hr	0.000269	0.000032	0.000138	0.000012	0.000185	0.000143	0.000143	0.000024	0.000028	0.000237	0.000196	0.000196	0.000558	3.841E-03
Copper	lb/hr	0.000976	0.000118	0.000294	0.000025	0.000395	0.000344	0.000306	0.000051	0.000068	0.000507	0.000419	0.000419	0.001191	3.893E-03
Silver	lb/hr	0.000013	0.000002	0.000002	0.000000	0.000002	0.000003	0.000002	0.000000	0.000000	0.000003	0.000002	0.000002	0.000001	1.002E-03
Thallium	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	1.194E-04

Active Hours - Non-Barge Loading 3 PM to 7 PM Monday through Friday and 3 PM to 5 PM Saturday

Volume Source	Units	V-1	V-2	V-3	V-4	V-5	V-6	V-7	V-8	V-9	V-10 ^d	V-11 ^d	V-12 ^d	V-13 ^d	RTO ^b
PM (Active)	lb/hr	1.161000	0.140000	0.140000	0.012000	0.188100	0.208700	0.145800	0.024400	0.041100	0.421030	0.431854	0.431854	0.000000	4.700000
Source of Metals Conc. Data ^a	Sample No.	3	3	4	4	4	5	4	4	5	4	4	4	4	Nov 2019 Emission Test Data
	Sample Name	0.0000000	0.0000000	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	
Lead	lb/hr	0.000610	0.000074	0.000592	0.000051	0.000796	0.000985	0.000617	0.000103	0.000194	0.001020	0.000844	0.000844	0.002400	1.383E-03
Manganese	lb/hr	0.000846	0.000102	0.000309	0.000027	0.000416	0.000367	0.000322	0.000054	0.000072	0.000533	0.000441	0.000441	0.001254	1.990E-03
Mercury	lb/hr	0.000003	0.000000	0.000003	0.000000	0.000004	0.000002	0.000003	0.000000	0.000000	0.000005	0.000004	0.000004	0.000011	4.464E-02
Nickel	lb/hr	0.000123	0.000015	0.000043	0.000004	0.000057	0.000065	0.000044	0.000007	0.000013	0.000073	0.000061	0.000061	0.000172	3.296E-03
Antimony	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	1.124E-03
Arsenic	lb/hr	0.000003	0.000000	0.000000	0.000000	0.000001	0.000001	0.000000	0.000000	0.000000	0.000001	0.000001	0.000001	0.000002	3.971E-04
Beryllium	lb/hr	0.000006	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	8.901E-05
Cadmium	lb/hr	0.000006	0.000001	0.000007	0.000001	0.000009	0.000007	0.000007	0.000001	0.000001	0.000011	0.000010	0.000010	0.000027	4.256E-04
Chromium ^c	lb/hr	0.000201	0.000024	0.000056	0.000005	0.000076	0.000089	0.000059	0.000010	0.000017	0.000097	0.000080	0.000080	0.000228	3.452E-03
Cobalt	lb/hr	0.000012	0.000001	0.000007	0.000001	0.000010	0.000012	0.000008	0.000001	0.000002	0.000013	0.000010	0.000010	0.000029	1.064E-04
Phosphorus	lb/hr	0.000313	0.000038	0.000117	0.000010	0.000157	0.000195	0.000121	0.000020	0.000038	0.000201	0.000166	0.000166	0.000473	1.215E-01
Selenium	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	6.047E-03
Zinc	lb/hr	0.003576	0.000431	0.005222	0.000448	0.007016	0.007096	0.005438	0.000910	0.001397	0.008997	0.007445	0.007445	0.021160	2.673E-02
Barium	lb/hr	0.000269	0.000032	0.000138	0.000012	0.000185	0.000143	0.000143	0.000024	0.000028	0.000237	0.000196	0.000196	0.000558	3.841E-03
Copper	lb/hr	0.000976	0.000118	0.000294	0.000025	0.000395	0.000344	0.000306	0.000051	0.000068	0.000507	0.000419	0.000419	0.001191	3.893E-03
Silver	lb/hr	0.000013	0.000002	0.000002	0.000000	0.000002	0.000003	0.000002	0.000000	0.000000	0.000003	0.000002	0.000002	0.000001	1.002E-03
Thallium	lb/hr	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001	1.194E-04

a. Metal emissions from Volume Sources V-1 through V-13 calculated by multiplying total Volume Source PM (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.
 b. Metal emissions from the Shredder RTO calculated using the measured metal emission factors from November 2019 metals compliance testing of the RTO performed at GII multiplied by the maximum hourly shredder feed and a safety factor.
 c. Chromium (metal) and compounds other than Chromium VI
 d. Only values in blue text are changed from Barge Loading values.

**Table A-1b - Ferrous Material Processing - Metal Emissions in Inactive Hours
General III, LLC - Chicago, Illinois**

Inactive Hours - 7 PM to 7 AM Monday through Friday, 5 PM to 7AM Saturday, and All Day Sunday

Volume Source	Units	V-1	V-2	V-3	V-4	V-5	V-6	V-7	V-8	V-9	V-10	V-11	V-12	V-13	RTO ^b
PM (Inactive)	lb/hr	0.079400	-	-	0.001200	-	0.037100	-	-	0.000800	-	0.052900	0.052900	-	-
Source of Metals	Sample No.	3	3	4	4	4	5	4	4	5	4	4	4	4	Nov 2019
Conc. Data ^a	Sample Name	0.0000000	0.0000000	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Non-Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Ferrous Transfer	Emission Test Data
Lead	lb/hr	0.000042			0.000005		0.000175			0.000004		0.000224	0.000224		
Manganese	lb/hr	0.000058			0.000003		0.000065			0.000001		0.000117	0.000117		
Mercury	lb/hr	-			-		-			-		0.000001	0.000001		
Nickel	lb/hr	0.000008			-		0.000012			-		0.000016	0.000016		
Antimony	lb/hr	-			-		-			-		-	-		
Arsenic	lb/hr	-			-		-			-		-	-		
Beryllium	lb/hr	-			-		-			-		-	-		
Cadmium	lb/hr	-			-		0.000001			-		0.000003	0.000003		
Chromium ^c	lb/hr	0.000014			-		0.000016			-		0.000021	0.000021		
Cobalt	lb/hr	0.000001			-		0.000002			-		0.000003	0.000003		
Phosphorus	lb/hr	0.000021			0.000001		0.000035			0.000001		0.000044	0.000044		
Selenium	lb/hr	-			-		-			-		-	-		
Zinc	lb/hr	0.000245			0.000045		0.001261			0.000027		0.001973	0.001973		
Barium	lb/hr	0.000018			0.000001		0.000025			0.000001		0.000052	0.000052		
Copper	lb/hr	0.000067			0.000003		0.000061			0.000001		0.000111	0.000111		
Silver	lb/hr	0.000001			-		-			-		0.000001	0.000001		
Thallium	lb/hr	-			-		-			-		-	-		

a. Metal emissions from Volume Sources V-1 through V-13 calculated by multiplying total Volume Source PM (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.

b. Shredder/RTO does not operate during inactive hours.

c. Chromium (metal) and compounds other than Chromium VI

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description												Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-1	55		Truck Dumping of Raw Feed	Unprepared	5.4 ^{a2}	Outside	N		0%	0%	Drop	300	0.00127 ^c	0.3797	300	0.00127 ^c	0.3797
V-1	56		Raw Feed from Ground after Truck Dumping	Unprepared	5.4 ^{a2}	Outside	N		0%	0%	Drop	300	0.00127 ^c	0.3797	300	0.00127 ^c	0.3797
V-1	59	Magnet/	Drop Raw Scrap to Infeed Conveyor	Unprepared	N ^{a4}	Outside	N		NA	0%	D	500	0.00020 ^f	0.1022	500	0.00020 ^f	0.1022
Total Filterable PM Emissions														0.8616	0.8616		
V-2	37	E-01	Drop Raw Scrap onto Shredder Feed Chute	Unprepared	Y ^{a4}	Outside	N		NA	0%	A	500	0.00014 ^d	0.0700	500	0.00014 ^d	0.0700
V-2	40	E-05	Shredder Under Mill Vibratory Conveyor	Shred	Y	Inside	N		NA	0%	A	500	0.00014 ^d	0.0700	500	0.00014 ^d	0.0700
V-2	79	E-02	Shredder Bottom Discharge	Shred	Y ^o	shredder emissions	0		0%	0%	A		Emissions captured and controlled by shredder emission control system			Emissions captured and controlled by shredder emission control system	
V-2	81	E-02	Shredder Chute	Unprepared	Y ^o	shredder emissions	0		0%	0%	A		Emissions captured and controlled by shredder emission control system			Emissions captured and controlled by shredder emission control system	
Total Filterable PM Emissions														0.1400	0.1400		
V-3	4	C-001	Shredded Material Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	500	0.00014 ^d	0.0700	500	0.00014 ^d	0.0700
V-3	5	C-002	Shredded Material Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-3	6	C-002	Mat'l Not Removed by Poker Picker	Shred	Y	Outside	N		NA	0%	A	499	0.00014 ^d	0.0699	499	0.00014 ^d	0.0699
Total Filterable PM Emissions														0.1400	0.1400		
V-4	58	-	Poker Loadout	Pokers	N	Outside	N		0%	0%	D	1	0.00020 ^f	0.0002	1	0.00020 ^f	0.0002
V-4	62	E-06	Poker Picker Chute to Stockpile	Shred	1.5% ^{a1}	Outside	N		0%	0%	Drop	1	0.00761 ^c	0.0076	1	0.00761 ^c	0.0076
Total Filterable PM Emissions														0.0078	0.0078		

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description												Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-5	7	C-003	Ferrous Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	130	0.00014 ^d	0.0182	130	0.00014 ^d	0.0182
V-5	8	C-003	Ferrous Transfer Conveyor	Ferrous	Y	Outside	N		NA	0%	A	369	0.00014 ^d	0.0517	369	0.00014 ^d	0.0517
V-5	31	C-032	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	4	0.00014 ^d	0.0006	4	0.00014 ^d	0.0006
V-5	32	C-033	Magnetic Material	Shred	Y	Outside	N		NA	0%	A	5	0.00014 ^d	0.0007	5	0.00014 ^d	0.0007
V-5	33	C-033	ASR Not Removed by Magnet E-12	Residue	Y	Outside	N		NA	0%	A	129	0.00014 ^d	0.0181	129	0.00014 ^d	0.0181
V-5	34	C-034	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	5	0.00014 ^d	0.0007	5	0.00014 ^d	0.0007
V-5	35	C-035	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	5	0.00014 ^d	0.0007	5	0.00014 ^d	0.0007
V-5	36	C-036	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	129	0.00014 ^d	0.0181	129	0.00014 ^d	0.0181
V-5	41	E-07	Magnet Discharge to Chute	Shred	Y	Outside	N		NA	0%	A	187	0.00014 ^d	0.0262	187	0.00014 ^d	0.0262
V-5	42	E-07	Magnet Discharge to Chute	Shred	Y	Outside	N		NA	0%	A	187	0.00014 ^d	0.0262	187	0.00014 ^d	0.0262
V-5	49	E-12	Ferrous Removed by Magnet	Ferrous	Y	Outside	N		NA	0%	A	5	0.00014 ^d	0.0007	5	0.00014 ^d	0.0007
V-5	53	E-7	ASR Not Removed by Magnet	Shred	Y ^{a3}	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-5	54	E-7	Ferrous Removed by Magnet E-7	Residue	Y	Outside	N		NA	0%	A	185	0.00014 ^d	0.0259	185	0.00014 ^d	0.0259
Total Filterable PM Emissions														0.1881	0.1881		
V-6	61	C-037	ASR Transfer Conveyor to Stockpile	Residue	10 ^{a3}	Outside	N		0%	0%	Drop	129	0.00053 ^c	0.0689	129	0.00053 ^c	0.0689

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading 7 AM to 3 PM Mon - Sat			Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description									Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-7	9	C-006	Ferrous Transfer Conveyor	Shred	Y	Outside	Y	Z-Box Air Loop	100%	100%	A	183	0.00014 ^d	0.0000	183	0.00014 ^d	0.0000
V-7	10	C-007	Ferrous Transfer Conveyor	Shred	Y	Outside	Y	Z-Box Air Loop	100%	100%	A	183	0.00014 ^d	0.0000	183	0.00014 ^d	0.0000
V-7	21	C-022	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-7	22	C-023	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-7	23	C-024	Non-metallic transfer conveyor	Ferrous	Y	Outside	N		NA	0%	A	4	0.00014 ^d	0.0006	4	0.00014 ^d	0.0006
V-7	30	C-031	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	4	0.00014 ^d	0.0006	4	0.00014 ^d	0.0006
V-7	38	E-015	Z-Box Separator Cyclone	Ferrous	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-7	39	E-016	Z-Box Separator Cyclone	Ferrous	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-7	43	E-08	ASR Not Removed by Magnet	Shred	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-7	44	E-08	Ferrous Removed by Magnet E-7	Residue	Y	Outside	N		NA	0%	A	185	0.00014 ^d	0.0259	185	0.00014 ^d	0.0259
V-7	45	E-10	Ferrous Removed by Magnet	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-7	46	E-11	Ferrous Removed by Magnet	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-7	47	E-11	Ferrous Removed by Magnet	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-7	48	E-11	Ferrous Removed by Magnet	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-7	64	SC-001	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	183	0.00014 ^d	0.0256	183	0.00014 ^d	0.0256
V-7	66	SC-002	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	183	0.00014 ^d	0.0256	183	0.00014 ^d	0.0256
V-7	70	C-004	Ferrous Transfer Conveyor	Shred	Y ^b	Outside	N		NA	0%	A		Emissions captured by inward air flow at inlet to Z-Box separator			Emissions captured by inward air flow at inlet to Z-Box separator	
V-7	72	C-005	Ferrous Transfer Conveyor	Shred	Y ^b	Outside	N		NA	0%	A		Emissions captured by inward air flow at inlet to Z-Box separator			Emissions captured by inward air flow at inlet to Z-Box separator	
Total Filterable PM Emissions														0.1458	0.1458		

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading 7 AM to 3 PM Mon - Sat			Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description									Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-8	24	C-025	Non-metallic not removed by magnet E-13	Ferrous	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-8	25	C-025	material removed by first magnet to second magnet	Ferrous	Y ^{a2}	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	26	C-026	Ferrous Transfer Conveyor	Ferrous	Y ^{a2}				0%	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	27	C-027	Ferrous Transfer Conveyor	Ferrous	Y ^{a2}	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	28	C-028	Non-metallic Transfer Conveyor	Ferrous	Y	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	29	C-029	Non-metallic Transfer Conveyor	Ferrous	Y				0%	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	50	E-13	Ferrous Removed by E-13	Ferrous	Y ^{a2}	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	51	E-13	Ferrous Removed by E-13	Ferrous	Y	Outside	N		NA	0%	A	1	0.00014 ^d	0.0001	1	0.00014 ^d	0.0001
V-8	52	E-14	Mat'I Not removed by Separator	Ferrous	Y	Outside	N		NA	0%	A	0.25	0.00014 ^d	0.0000	0.25	0.00014 ^d	0.0000
V-8	60	C-030	Mat'I not Removed by Separator	Ferrous	1.5 ^{a1}	Outside	Y	Cover	0%	0%	Drop	2.25	0.00761 ^c	0.0171	2.25	0.00761 ^c	0.0171
V-8	63	E-14	Final Discharge from Mat'I Separator	Ferrous	1.5 ^{a1}	Outside	N		0%	0%	Drop	0.75	0.00761 ^c	0.0057	0.75	0.00761 ^c	0.0057
V-8	65	SC-009	Supplemental Conveyor	Ferrous	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
V-8	67	SC-010	Supplemental Conveyor	Ferrous	Y	Outside	N		NA	0%	A	2	0.00014 ^d	0.0003	2	0.00014 ^d	0.0003
Total Filterable PM Emissions														0.0244	0.0244		
V-9	57	-	Non-metallic Loadout	Non-metallic	N	Outside	N		0%	0%	D	187	0.00020 ^f	0.0382	187	0.00020 ^f	0.0382

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading 7 AM to 3 PM Mon - Sat			Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description									Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-10	11	C-008	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	56	0.00014 ^d	0.0078	56	0.00014 ^d	0.0078
V-10	12	C-009	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	13	C-010	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	14	C-011	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-10	15	C-012	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	56	0.00014 ^d	0.0078	56	0.00014 ^d	0.0078
V-10	16	C-013	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	17	C-014	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	18	C-015	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	55	0.00014 ^d	0.0077	55	0.00014 ^d	0.0077
V-10	19	C-016	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	367	0.00014 ^d	0.0514	367	0.00014 ^d	0.0514
V-10	20	C-020	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	367	0.00014 ^d	0.0514	367	0.00014 ^d	0.0514
V-10	68	SC-005	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	69	SC-008	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	128	0.00014 ^d	0.0179	128	0.00014 ^d	0.0179
V-10	71	C-014	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	73	C-012	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	74	C-015	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	75	C-019	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	76	C-013	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	77	C-017	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
V-10	78	C-020	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00014 ^d	0.0257
Total Filterable PM Emissions														0.2412	0.4210		

**Table A-2 - Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading 7 AM to 3 PM Mon - Sat			Non-Barge Loading 3 PM to 7 PM Mon - Fri and 3 PM to 5 PM Saturdays Changes only to V-10 thru V-13 (see blue text below).		
		ID #	Description									Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr	Material Throughput Rates tph	PM Emission Factors lb/ton	Filterable PM Emissions lb/hr
V-11	82	C-018	Ferrous Transfer Conveyor to stockpile	Shred	5.4% ^{a2}	Outside	N		NA	0%	Drop		No material to discharged to stockpile during barge loading.	184	0.00127	0.2323	
V-12	80	C-21	Ferrous Transfer Conveyor to stockpile	Shred	5.4% ^{a2}	Outside	N		NA	0%	Drop		No material to discharged to stockpile during barge loading.	184	0.00127	0.2323	
V-13	1	Barge 1	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	367	0.00014 ^d	0.0514	No material routed to barge during non-barge loading hours.		
V-13	2	Barge 2	Ferrous Transfer Conveyor	Shred	Y ^{a2}	Outside	N		NA	0%	A	367	0.00014 ^d	0.0514	No material routed to barge during non-barge loading hours.		
V-13	3	Barge 3	Ferrous Transfer Conveyor to barge (stockpile)	Shred	5.4% ^{a2}	Outside	N		0%	0%	Drop	367	0.00127 ^c	0.4645	No material routed to barge during non-barge loading hours.		
Total Filterable PM Emissions														0.5673	0.0000		

- a1 Controlled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying used based on conservative assumption that moisture content is greater than 1.5% due to water added in the shredder.
- a2 Material moisture was assumed to be the mean of material moisture contents identified in AP42, Table 13.2.4-1.
- a3 Northern Metals (Minneapolis, MN) found moisture content of ASR in the range of 20 to 30%; from MPCA Construction Permit Technical Support Document for Northern Metals in Becker MN, Stream COMG-2. Calculations for the ASR stacking conveyor drop point conservatively assumes 10% moisture.
- a4 Moisture content of raw materials is assumed to be >1.5% based on application of water from water atomization cannons used for fugitive dust control.
- b Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3. Emissions calculated with control Eff. factor included for source being inside of a building.
- c Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3.
- d Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. If moisture content is greater than 1.5% by weight, controlled emission factors are used.
- e Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for screening. If moisture content is greater than 1.5% by weight, controlled emission factors are used.
- f Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for truck loading of crushed stone. Use uncontrolled emission factor to be conservative.
- g Particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. For sources controlled by a dust collector the emission factor is multiplied by the identified capture Eff. and then by the quantity of 1-control Eff. Dust collectors vent back into the building. These emission calculations conservatively assume dust collector emission are vented to the atmosphere.
- h Metal HAPs as percent of total PM measured at the discharge of the existing roll media filter in June 2018.

**Table A-3 Ferrous Plant Stockpile - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Stock Pile	Stock Pile Area Acres	Control Factor ^b	Inactive Emissions ^{a,d} PM lb/hr	Active Emissions ^{a,d} PM lb/hr
V-1	Raw Material Truck Dumping (Drop 1)	0.3630	1.00	0.0529	0.1996
V-1	Raw Material Movement from Truck Dumping Area to Stockpile (Drop 2)	0.1815	1.00	0.0265	0.0998
Total				0.0794	0.2994
V-4	Poker North	0.0115	0.33	0.0006	0.0021
V-4	Poker South	0.0115	0.33	0.0006	0.0021
Total				0.0012	0.0042
V-6	ASR	0.2541	1.00	0.0371	0.1398
V-9	Fluff (Bin)	0.0161	0.33	0.0008	0.0029
V-11	Ferrous North	0.3630	1.00	0.0529	0.1996
V-12	Ferrous South	0.3630	1.00	0.0529	0.1996

- a. Stockpile emissions calculation from TCEQ for crushed stone downloaded August 2019.
<https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/emiss-calc-rock1.xlsx>
- b. Control Factor of 0.33 (67.5% control) for partial enclosure consisting of walls on three sides of bin. Control Factor of 1.0 for no control.
- c. Assume number of active days to be 6 days per week and 52 weeks per year and inactive days to be 1 day per week and 52 weeks per year.
- d. From TCEQ Guidance

Stockpile emission calculation:

$$\text{PM Emission Rate (tpy)} = [(\text{inactive day PM EF} \times \text{No. of inactive days}) \times \text{stockpile area}/2000 \times \text{control factor}] + [(\text{active day PM EF} \times \text{No. of active days}) \times (\text{stockpile area}/2000) \times \text{control factor}]$$

Inactive Day PM Emission Factor = 3.50 lb-PM/acre-day
 Active Day PM Emission Factor = 13.20 lb-PM/acre-day

**Table A-4 - Ferrous Material Processing - PM Emission Summary
General III, LLC - Chicago, Illinois**

Barge Loading Hours^{a,b}

Volume Source	Filterable PM Emissions					
	Material Handling Emissions During Barge Loading Hours		Stockpile		Total	
	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr
V-1	0.8616		0.2994	0.0794	1.1610	0.0794
V-2	0.1400				0.1400	
V-3	0.1400				0.1400	
V-4	0.0078		0.0042	0.0012	0.0120	0.0012
V-5	0.1881				0.1881	
V-6	0.0689		0.1398	0.0371	0.2087	0.0371
V-7	0.1458				0.1458	
V-8	0.0244				0.0244	
V-9	0.0382		0.0029	0.0008	0.0411	0.0008
V-10	0.2412				0.2412	
V-11	0.0000		0.1996	0.0529	0.1996	0.0529
V-12	0.0000		0.1996	0.0529	0.1996	0.0529
V-13	0.5673				0.5673	

a. Barge Loading Hours - 7 AM to 3 PM Monday through Saturday.

b. Inactive Hours - 7 PM to 7 AM Monday through Friday, 5 PM to 7AM Saturday, and All Day Sunday.

Non-Barge Loading Hours^{a,b}

Volume Source	Filterable PM Emissions					
	Material Handling Emissions During Non Barge Loading Hours		Stockpile		Total	
	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr
V-1	0.8616		0.2994	0.0794	1.1610	0.0794
V-2	0.1400				0.1400	
V-3	0.1400				0.1400	
V-4	0.0078		0.0042	0.0012	0.0120	0.0012
V-5	0.1881				0.1881	
V-6	0.0689		0.1398	0.0371	0.2087	0.0371
V-7	0.1458				0.1458	
V-8	0.0244				0.0244	
V-9	0.0382		0.0029	0.0008	0.0411	0.0008
V-10	0.4210				0.4210	
V-11	0.2323		0.1996	0.0529	0.4319	0.0529
V-12	0.2323		0.1996	0.0529	0.4319	0.0529
V-13	0.0000				0.0000	

a. Non-Barge Loading Hours - 3 PM to 7 PM Monday through Friday and 3 PM to 5 PM Saturday.

b. Inactive Hours - 7 PM to 7 AM Monday through Friday, 5 PM to 7AM Saturday, and All Day Sunday.

**Supplement No. 1 to the January 24, 2019
Air Dispersion Modeling Report for
Assessment of Metal Emission Impacts**

**General III, LLC – 11600 South Burley - Chicago, Illinois
Construction Permit Application 19090021; Site ID No.: 031600SFX**

February 12, 2020

Attachment B

**Non-Ferrous Material Processing System
Hourly Metal Emission Rates Tables**

**The hourly emission rates in these tables have not changed from
the January 24, 2020 modeling report. Only the titles of the tables have been
changed to identify the operating schedule**

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**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-1	113	C-001	Conveyor	Residue	Y	Outside	Y	N	NA		0%	70	0.000140 ^d	0.0098
VN-1	114	C-002	Conveyor	Residue	N	Outside	Y	N	NA		0%	68	0.003000 ^o	0.2037
VN-1	115	C-002	Conveyor	Ferrous	N	Outside	Y	N	NA		0%	2	0.003000 ^o	0.0063
VN-1	116	C-003	Conveyor	Residue	N	Outside	Y	N	NA		0%	67.90	0.003000 ^o	0.2037
VN-1	117	C-004	Conveyor	Residue	N	Outside	Y	N	NA		0%	60.90	0.003000 ^o	0.1827
VN-1	118	C-005	Conveyor	Residue	N	Outside	Y	N	NA		0%	30.45	0.003000 ^o	0.0914
VN-1	119	C-006	Conveyor	Residue	N	Outside		N	NA		0%	30.45	0.003000 ^o	0.0914
VN-1	122	C-009	Conveyor	Residue	N	Outside		N	NA		0%	9.14	0.003000 ^o	0.0274
VN-1	123	C-010	Conveyor	Residue	N	Outside		N	NA		0%	9.14	0.003000 ^o	0.0274
VN-1	124	C-011	Conveyor	Residue	N	Outside	Y	N	NA		0%	8.40	0.003000 ^o	0.0252
VN-1	129	C-016	Conveyor	Residue	N	Outside	Y	N	NA		0%	2.7	0.003000 ^o	0.0081
VN-1	174	E-01	Vibratory Batch Feeder	Residue	Y	Outside		N	NA		0%	70	0.000140 ^d	0.0098
VN-1	175	E-03	Screeener	Residue	Y	Outside		N	NA		0%	60.90	0.002200 ^e	0.1340
VN-1	176	E-03	Screeener	Residue	Y	Outside		N	NA		0%	6.80	0.002200 ^e	0.0150
VN-1	177	E-03	Screeener	Residue	Y	Outside		N	NA		0%	2.70	0.002200 ^e	0.0059
VN-1	178	E-04	Screeener	Residue	Y	Outside		N	NA		0%	15.75	0.002200 ^e	0.0347
VN-1	179	E-04	Screeener	Residue	Y	Outside		N	NA		0%	9.14	0.002200 ^e	0.0201
VN-1	180	E-04	Screeener	Residue	Y	Outside		N	NA		0%	4.20	0.002200 ^e	0.0092
VN-1	190	E-11	Screeener	Residue	N	Outside		N	NA		0%	15.75	0.025000 ^d	0.3938
VN-1	191	E-11	Screeener	Residue	N	Outside		N	NA		0%	9.14	0.025000 ^d	0.2285
VN-1	192	E-11	Screeener	Residue	N	Outside		N	NA		0%	4.20	0.025000 ^d	0.1050
VN-1	244	End Loader	Drop ASR into feed hopper	Residue into Hopper	N	Outside		Y	Cover		0%	70.00	0.000204 ^d	0.0143
VN-1	246	SC-001	Supplemental Conveyor	Residue							0%	15.75	0.003000	0.0473
VN-1	247	SC-002	Supplemental Conveyor	Residue							0%	16	0.003000	0.0473
Total Filterable PM Emissions													1.9420	

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-2	120	C-007	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	15.75	0.003000 ⁰	0.0095
VN-2	121	C-008	Conveyor	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	15.75	0.003000 ⁰	0.0095
VN-2	125	C-012	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	9.14	0.003000 ⁰	0.0055
VN-2	126	C-013	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	9.14	0.003000 ⁰	0.0055
VN-2	127	C-014	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	8.40	0.003000 ⁰	0.0050
VN-2	128	C-015	Conveyor	Ferrous	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	.25	0.003000 ⁰	0.0002
VN-2	130	C-017	Conveyor	Ferrous	N	Outside		N	NA		0%	1.75	0.003000 ⁰	0.0053
VN-2	131	C-018	Conveyor	Ferrous	N	Outside	Y	N	NA		0%	1.75	0.003000 ⁰	0.0053
VN-2	132	C-019	Conveyor	Lights	N	Outside	Y	N	NA		0%	0.25	0.003000 ⁰	0.0008
VN-2	133	C-020	Conveyor	Residue	N	Outside	Y	N	NA		0%	11.12	0.003000 ⁰	0.0334
VN-2	134	C-021	Conveyor	Residue	N	Outside	Y	N	NA		0%	11.12	0.003000 ⁰	0.0334
VN-2	135	C-022	Conveyor to Wind Sifter	Mixed Non-Ferrous	N	Outside	Y	Y	Wind Sifter	100%	100%	0.80	0.003000 ⁰	0.0024
VN-2	136	C-023	Conveyor to Wind Sifter	Residue	N	Outside	Y	Y	Wind Sifter	100%	100%	7.29	0.000140 ⁰	0.0010
VN-2	137	C-024	Conveyor to Wind Sifter	Residue	N	Outside	Y	Y	Wind Sifter	100%	100%	7.29	0.000140 ⁰	0.0010
VN-2	139	C-035	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	2.7	0.003000 ⁰	0.0016
VN-2	147	C-044	Conveyor	Residue	N	Outside	Y	N	NA		0%	24.87	0.003000 ⁰	0.0746
VN-2	181	E-05	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	14.87	0.003000	0.0089
VN-2	182	E-05	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.87	0.003000	0.0059
VN-2	183	E-05	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	0.88	0.003000	0.0026
VN-2	184	E-05	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	5.00	0.003000	0.0150
VN-2	185	E-06	Eddy Current Separator	Residue	N	Outside		N	NA		0%	6.12	0.003000 ^d	0.0184
VN-2	186	E-06	Eddy Current Separator	Mids	N	Outside		N	NA		0%	3.50	0.003000 ^d	0.0105
VN-2	187	E-06	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	0.25	0.003000 ^d	0.0008
VN-2	188	E-07	Wind Sifter	Lights	N	Outside		Y	Cover		0%	0.25	0.002200 ^d	0.0006
VN-2	189	E-07	Wind Sifter	Heavies	1.5 ^a	Outside		Y	Wind Sifter	90%	100%	1.50	0.007606 ^c	0.0103
VN-2	193	E-12	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	14.87	0.003000	0.0089

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-2	194	E-12	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.87	0.003000	0.0059
VN-2	195	E-12	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	0.88	0.003000	0.0026
VN-2	196	E-12	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	5.00	0.003000	0.0150
VN-2	197	E-12	Magnetic Separation	Zorba	N	Outside		N	NA		0%	0.25	0.003000 ^d	0.0008
VN-2	198	E-13	Eddy Current Separator	Residue	N	Outside		N	NA		0%	6.12	0.003000 ^d	0.0184
VN-2	199	E-13	Eddy Current Separator	Mids	N	Outside		N	NA		0%	3.50	0.003000 ^d	0.0105
VN-2	200	E-14	Wind Sifter	Lights	N	Outside		Y	Cover		0%	0.20	0.002200 ^d	0.0004
VN-2	201	E-14	Wind Sifter	Heavies	1.5 ^a	Outside		Y	Wind Sifter	100%	100%	0.60	0.007606 ^c	0.0046
VN-2	202	E-15	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.09	0.003000	0.0055
VN-2	203	E-15	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.29	0.003000	0.0050
VN-2	204	E-15	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.05	0.003000 ^d	0.0002
VN-2	205	E-15	Magnetic Separation	Mixed Non-Ferrous	N	Outside		N	NA		0%	0.40	0.003000 ^d	0.0012
VN-2	206	E-16	Eddy Current Separator	Residue	N	Outside		N	NA		0%	7.29	0.003000 ^d	0.0219
VN-2	207	E-16	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.003000 ^d	0.0030
VN-2	208	E-17	Wind Sifter	Lights	N	Outside		Y	Cover		0%	1.09	0.002200 ^d	0.0024
VN-2	209	E-17	Wind Sifter	Residue	N	Outside		Y	Wind Sifter	100%	100%	6.20	0.002200 ^d	0.0136
VN-2	210	E-21	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.29	0.003000	0.0050
VN-2	211	E-21	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.05	0.003000 ^d	0.0002
VN-2	212	E-21	Magnetic Separation	Mixed Non-Ferrous	N	Outside		N	NA		0%	0	0.003000 ^d	0.0012
VN-2	213	E-22	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.003000 ^d	0.0030
VN-2	214	E-22	Eddy Current Separator	Residue	N	Outside		N	NA		0%	7.29	0.003000 ^d	0.0219
VN-2	215	E-23	Wind Sifter	Lights	N	Outside		Y	Cover		0%	1	0.002200 ^d	0.0024
VN-2	216	E-23	Wind Sifter	Residue	N	Outside		Y	Wind Sifter	100%	100%	6.20	0.002200 ^d	0.0136
VN-2	217	E-27	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.15	0.003000	0.0049
VN-2	219	E-28	Eddy Current Separator	Residue	N	Outside		N	NA		0%	7.15	0.003000 ^d	0.0215
VN-2	221	E-34	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	6.55	0.003000	0.0039

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-2	222	E-34	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	6.55	0.003000	0.0039
VN-2	224	E-35	Eddy Current Separator	Residue	N	Outside		N	NA		0%	5.05	0.003000 ^d	0.0152
VN-2	231	E-43	Vibratory Feeder	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	2.70	0.003000	0.0016
VN-2	232	E-44	Eddy Current Separator drop to stockpile	Zorba	1.5 ^a	Inside		N	NA		0%	0.50	0.007600	0.0038
VN-2	240	E-49	Transfer Conveyor	Residue onto ECS	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.15	0.003000	0.0049
VN-2	242	ECS	Eddy Current Separator drop to container	Zorba	1.5 ^a	Inside		N	NA		0%	0.04	0.007600	0.0003
VN-2	243	ECS	Eddy Current Separator drop to container	Zorba	1.5 ^a	Inside		N	NA		0%	0.18	0.007600	0.0014
VN-2	248	SC-003	Supplemental Conveyor	Residue							0%	7.34	0.003000	0.0220
VN-2	249	SC-004	Supplemental Conveyor	Residue							0%	7.34	0.003000	0.0220
Total Filterable PM Emissions														0.5395

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-3	138	C-034	Conveyor	Material Separator	N	Outside	Y	N	NA		0%	0.55	0.003000 ^o	0.0017
VN-3	140	C-039	Conveyor	Mixed Non-Ferrous	N	Outside		N	NA		0%	0.80	0.003000 ^o	0.0024
VN-3	141	C-040	Conveyor	Residue	N	Outside		N	NA		0%	2.80	0.003000 ^o	0.0084
VN-3	142	C-040	Conveyor	Mids	N	Outside		N	NA		0%	7	0.003000 ^o	0.0210
VN-3	143	C-040	Conveyor	Residue	N	Outside		N	NA		0%	4.20	0.003000 ^o	0.0126
VN-3	144	C-041	Conveyor	Zorba	N	Outside		N	NA		0%	0.50	0.003000 ^o	0.0015
VN-3	145	C-042	Conveyor	Zorba	N	Outside		N	NA		0%	1.50	0.003000 ^o	0.0045
VN-3	146	C-043	Conveyor	Zorba	N	Outside		N	NA		0%	3	0.003000 ^o	0.0090
VN-3	148	C-044	Conveyor	Lights Zuric	N	Outside	Y	N	NA		0%	0.30	0.003000 ^o	0.0009
VN-3	149	C-045	Conveyor	Residue	N	Outside	Y	N	NA		0%	24.87	0.003000 ^o	0.0746
VN-3	150	C-047	Conveyor	To SSI	N	Outside		N	NA		0%	0.55	0.003000 ^o	0.0017
VN-3	151	C-048	Conveyor	Out of SSI	N	Outside		N	NA		0%	0.55	0.003000 ^o	0.0017
VN-3	152	C-050	Conveyor	Residue	N	Outside	Y	N	NA		0%	25.07	0.003000 ^o	0.0752
VN-3	153	C-052	Conveyor	Residue	N	Outside		N	NA		0%	2	0.003000 ^o	0.0068
VN-3	154	C-055	Conveyor	Wire	N	Outside	Y	N	NA		0%	1.00	0.003000 ^o	0.0030
VN-3	155	C-058	Conveyor	Zuric drops	N	Outside	Y	N	NA		0%	0.30	0.003000 ^o	0.0009
VN-3	156	C-060	Conveyor	Zone	N	Outside	Y	N	NA		0%	1.20	0.003000 ^o	0.0036
VN-3	162	C-064	Conveyor drop to container	Zorba	1.5 ^a	Outside		N	NA		0%	0.70	0.007606 ^c	0.0053
VN-3	163	C-065	Conveyor	Residue	N	Outside	Y	N	NA		0%	2.2	0.003000 ^d	0.0066
VN-3	164	C-066	Conveyor	Residue	N	Outside	Y	N	NA		0%	54.39	0.003000 ^d	0.1632
VN-3	165	C-067	Conveyor	Residue	N	Outside	Y	N	NA		0%	54.39	0.003000 ^d	0.1632
VN-3	168	C-071	Conveyor	Lights	N	Outside	Y	Y	Cover		0%	0.03	0.000140 ^d	
VN-3	169	C-072	Conveyor	Lights	N	Outside	Y	Y	Cover		0%	0	0.000140 ^d	
VN-3	170	DC-01 Cyc	DC-01 fines discharge to covered coneyor	Lights	N	Outside		Y	Cover		0%	0.01	0.000140 ^d	
VN-3	171	DC-02 Cyc	DC-02 fines discharge to covered coneyor	Lights	N	Outside		Y	Cover		0%	0.01	0.000140 ^d	
VN-3	172	DC-03 Cyc	DC-03 fines discharge to covered coneyor	Lights	N	Outside		Y	Cover		0%	0.01	0.000140 ^d	

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-3	173	DC-04 Cyc	DC-04 fines discharge to covered coneyor	Lights	N	Outside		Y	Cover		0%	0.01	0.000140 ^d	
VN-3	218	E-27	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.25	0.003000 ^d	0.0008
VN-3	220	E-28	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.003000 ^d	0.0030
VN-3	223	E-35	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.50	0.003000 ^d	0.0045
VN-3	225	E-40	Separator	Lights Zuric	N	Outside		N	NA		0%	0.24	0.025000 ^d	0.0060
VN-3	226	E-40	Separator	Heavies Zuric	N	Outside		N	NA		0%	0.96	0.025000 ^d	0.0240
VN-3	227	E-40	Separator	Lights Zuric	N	Outside		N	NA		0%	0.35	0.025000 ^d	0.0088
VN-3	228	E-41	Separator	Lights	N	Outside		N	NA		0%	0.95	0.025000 ^d	0.0238
VN-3	229	E-41	Separator drop to container	Heavies	1.5 ^a	Outside		N	NA		0%	0.05	0.007606 ^c	0.0004
VN-3	230	E-42	Low speed shredder for size reduction	Out of SSI	N	Outside		N	NA		0%	0.55	0.003000 ^d	0.0017
VN-3	234	E-46	Separator	Heavier Zorba	N	Outside		N	NA		0%	1.25	0.02500 ^d	0.0313
VN-3	235	E-46	Separator	Lights Zorba	N	Outside		N	NA		0%	0.25	0.02500 ^d	0.0063
VN-3	236	E-47	Separator	Zorba	N	Outside		N	NA		0%	2.70	0.02500 ^d	0.0675
VN-3	237	E-47	Separator	Heavies Zorba	N	Outside		N	NA		0%	0.85	0.02500 ^d	0.0213
VN-3	238	E-47	Separator	Lights Zorba	N	Outside		N	NA		0%	0.15	0.02500 ^d	0.0038
VN-3	239	E-47	Separator	Light Zorba	N	Outside		N	NA		0%	0.30	0.02500 ^d	0.0075
VN-3	241	E-50	Air Vibe	To Infeed SSI	N	Outside		Y	Cover		0%	0.55	0.00014 ^d	0.0001
VN-3	250	SC-005	Supplemental Conveyor	Residue							0%	54.39	0.00300	0.1632
VN-3	251	SC-006	Supplemental Conveyor	Residue							0%	54.39	0.00300	0.1632
Total Filterable PM Emissions													1.1050	

**Table B-1 - Non-Ferrous Material Processing - Particulate Emissions
General III, LLC - Chicago, Illinois**

Active Hours 5 AM through 11 PM Monday through Saturday.

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM Emissions Factor lb/ton	Filterable PM Emissions lb/hr
VN-4	159	C-062	Conveyor	Heavier Zorba	N	Outside		N	NA		0%	1.25	0.003000 ^d	0.0038
VN-4	160	C-063	Conveyor drop to stockpile	Zorba	1.5 ^a	Outside		N	NA		0%	2.70	0.007606 ^c	0.0205
VN-4	161	C-063	Conveyor drop to stockpile	Heavies Zorba	1.5% ^a	Outside		N	NA		0%	0.85	0.00761 ^c	0.0065
VN-4	233	E-44	Eddy Current Separator	Residue	N	Outside		N	NA		0%	2.2	0.00300 ^d	0.0066
Total Filterable PM Emissions														0.0374
VN-5	157	C-061	Conveyor drop to stockpile	Heavies Zuric	1.5% ^a	Outside		N	NA		0%	0.96	0.00761 ^c	0.0073
VN-5	158	C-061	Conveyor drop to stockpile	Heavies Zuric	1.5% ^a	Outside		N	NA		0%	0.30	0.00761 ^c	0.0023
VN-5	167	C-070	Conveyor drop to stockpile	Waste to Stockpile	1.5% ^a	Outside		N	NA		0%	0.55	0.00761 ^c	0.0042
Total														0.0138
VN-6	166	C-068	Conveyor drop to stockpile	Residue	1.5 ^a	Outside	Y	N	NA		0%	54.39	0.007606 ^c	0.4137
VN-6	245	End Loader	load waste to truck	Waste	N	Outside		N	NA		0%	54.39	0.00020	0.0111
Total														0.4248

- a Material moisture content (%) for light materials - AP-42, Table 13.2.4-1 for crushed limestone -
- b Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3. Emissions calculated with control Eff. factor included for source being inside of a building.
- c Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3.
- d Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. If moisture is greater than 1.5% by weight, use controlled emission factors.
- e Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for screening. If moisture is greater than 1.5% by weight, use controlled emission factors.
- f Sources located inside the Fines Building emit to the atmosphere through Dust Collection DC-01. Emissions are estimated by 12,000
- g Metal HAPs as percent of total PM measured at the discharge of the existing roll media filter in June 2018.

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**Table B-2 - Non-Ferrous Plant Stockpile - Particulate Emissions
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Stock Pile	Stock Pile Area Acres	Control Factor ^b	Inactive Emissions ^{a,d} PM lb/hr	Active Emissions ^{a,d} PM lb/hr
VN-1	FE from E-02	0.0047	0.33	0.0002	0.0009
VN-4	5" + Zorba	0.0189	0.33	0.0009	0.0034
VN-4	2-1/2" - 5" Zorba	0.0189	0.33	0.0009	0.0034
VN-4	5/8" - 2-1/2" Zorba	0.0189	0.33	0.0009	0.0034
Total				0.0027	0.0102
VN-5	Tailings	0.0195	0.33	0.0009	0.0035
VN-5	Open	0.0195	0.33	0.0009	0.0035
VN-5	Wire	0.0195	0.33	0.0009	0.0035
VN-5	Wire Rich Solids	0.0195	0.33	0.0009	0.0035
VN-5	Zurick	0.0195	0.33	0.0009	0.0035
Total				0.0045	0.0175
VN-6	Waste	0.0868	0.33	0.0042	0.0158

- a. Stockpile emissions calculation from TCEQ for crushed stone downloaded August 2019.
<https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/emiss-calc-rock1.xlsx>
- b. Control Factor of 0.1 (90% control) for partial enclosure consisting of walls on three sides of bin. Control Factor of 1.0 for no control.
- c. Assume number of active days to be 6 days per week and 52 weeks per year and inactive days to be 1 day per week and 52 weeks per year.
- d. From TCEQ Guidance
Stockpile emission calculation:

$$\text{PM Emission Rate (tpy)} = [(\text{inactive day PM EF} \times \text{No. of inactive days}) \times \text{stockpile area}/2000 \times \text{control factor}] + [(\text{active day PM EF} \times \text{No. of active days}) \times (\text{stockpile area}/2000) \times \text{control factor}]$$

Inactive Day PM Emission Factor = 3.50 lb-PM/acre-day

Active Day PM Emission Factor = 13.20 lb-PM/acre-day

**Table B-3 - Non-Ferrous Material Processing - PM Emission Summary
General III, LLC - Chicago, Illinois**

Sources	PM Emissions					
	Material Handling		Stockpile		Totals	
	Active ^a lb/hr	Inactive ^b lb/hr	Active ^a lb/hr	Inactive ^b lb/hr	Active ^a lb/hr	Inactive ^b lb/hr
VN-1	1.9420	1.9420	0.0009	0.0002	1.9429	1.9422
VN-2	0.5395	0.5395			0.5395	0.5395
VN-3	1.1050	1.1050			1.1050	1.1050
VN-4	0.0374	0.0374	0.0102	0.0027	0.0476	0.0401
VN-5	0.0138	0.0138	0.0175	0.0045	0.0313	0.0183
VN-6	0.4248	0.4248	0.0158	0.0042	0.4406	0.4290

a. Active hours 5 AM to 11 PM Monday through Saturday.

b. Inactive hours 11 PM to 5 AM Monday through Saturday and all day Sunday.

**Table B-4a - Non-Ferrous Material Processing - Metal Emissions in Active Hours
General III, LLC - Chicago, Illinois**

5 AM to 11 PM Monday through Saturday

Volume Source	Units	VN-1	VN-2	VN-3	VN-4	VN-5	VN-6	DC-1 ^b
PM (Active)	lb/hr	1.942900	0.539528	1.105000	0.047600	0.031300	0.440600	0.514300
Source of Metals Conc. Data ^a	Sample No.	5	5	5	5	5	5	5
	Sample Name	0.000000	Non-Ferrous Transfer	Non-Ferrous Transfer	Non-Ferrous Transfer	Non-Ferrous Transfer	Non-Ferrous Transfer	Non-Ferrous Transfer
Lead	lb/hr	0.009170	0.002547	0.005216	0.000225	0.000148	0.002080	0.002427
Manganese	lb/hr	0.003420	0.000950	0.001945	0.000084	0.000055	0.000775	0.000905
Mercury	lb/hr	0.000018	0.000005	0.000010	0.000000	0.000000	0.000004	0.000005
Nickel	lb/hr	0.000604	0.000168	0.000344	0.000015	0.000010	0.000137	0.000160
Antimony	lb/hr	0.000002	0.000001	0.000001	0.000000	0.000000	0.000001	0.000001
Arsenic	lb/hr	0.000009	0.000002	0.000005	0.000000	0.000000	0.000002	0.000002
Beryllium	lb/hr	0.000002	0.000001	0.000001	0.000000	0.000000	0.000001	0.000001
Cadmium	lb/hr	0.000067	0.000019	0.000038	0.000002	0.000001	0.000015	0.000018
Chromium ^c	lb/hr	0.000826	0.000229	0.000470	0.000020	0.000013	0.000187	0.000219
Cobalt	lb/hr	0.000108	0.000030	0.000062	0.000003	0.000002	0.000025	0.000029
Phosphorus	lb/hr	0.001815	0.000504	0.001032	0.000044	0.000029	0.000412	0.000480
Selenium	lb/hr	0.000002	0.000001	0.000001	0.000000	0.000000	0.000001	0.000001
Zinc	lb/hr	0.066059	0.018344	0.037570	0.001618	0.001064	0.014980	0.017486
Barium	lb/hr	0.001329	0.000369	0.000756	0.000033	0.000021	0.000301	0.000352
Copper	lb/hr	0.003206	0.000890	0.001823	0.000079	0.000052	0.000727	0.000849
Silver	lb/hr	0.000024	0.000007	0.000013	0.000001	0.000000	0.000005	0.000006
Thallium	lb/hr	0.000002	0.000001	0.000001	0.000000	0.000000	0.000001	0.000001

a. Metal emissions from Volume Sources V-1 through V-13 calculated by multiplying total Volume Source PM (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.

b. Metal emissions from DC-1 are calculated by multiplying the estimated dust collector PM emission rate (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.

c. Chromium (metal) and compounds other than Chromium VI

**Table B-4b - Non-Ferrous Material Processing - Metal Emissions in Inactive Hours
General III, LLC - Chicago, Illinois**

11 PM to 5 AM Monday through Saturday and All Day Sunday

Volume Source	Units	VN-1	VN-2	VN-3	VN-4	VN-5	VN-6	DC-1 ^b
PM (Inactive)	lb/hr	1.942200	0.539528	1.105000	0.040100	0.018300	0.429000	0.514300
Source of Metals Conc. Data ^a	Sample No.	5	5	5	5	5	5	5
	Sample Name	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Lead	lb/hr	0.009167	0.002547	0.005216	0.000189	0.000086	0.002025	0.002427
Manganese	lb/hr	0.003418	0.000950	0.001945	0.000071	0.000032	0.000755	0.000905
Mercury	lb/hr	0.000018	0.000005	0.000010	-	-	0.000004	0.000005
Nickel	lb/hr	0.000604	0.000168	0.000344	0.000012	0.000006	0.000133	0.000160
Antimony	lb/hr	0.000002	0.000001	0.000001	-	-	0.000001	0.000001
Arsenic	lb/hr	0.000009	0.000002	0.000005	-	-	0.000002	0.000002
Beryllium	lb/hr	0.000002	0.000001	0.000001	-	-	0.000001	0.000001
Cadmium	lb/hr	0.000067	0.000019	0.000038	0.000001	0.000001	0.000015	0.000018
Chromium ^c	lb/hr	0.000825	0.000229	0.000470	0.000017	0.000008	0.000182	0.000219
Cobalt	lb/hr	0.000108	0.000030	0.000062	0.000002	0.000001	0.000024	0.000029
Phosphorus	lb/hr	0.001814	0.000504	0.001032	0.000037	0.000017	0.000401	0.000480
Selenium	lb/hr	0.000002	0.000001	0.000001	-	-	0.000001	0.000001
Zinc	lb/hr	0.066035	0.018344	0.037570	0.001363	0.000622	0.014586	0.017486
Barium	lb/hr	0.001328	0.000369	0.000756	0.000027	0.000013	0.000293	0.000352
Copper	lb/hr	0.003205	0.000890	0.001823	0.000066	0.000030	0.000708	0.000849
Silver	lb/hr	0.000024	0.000007	0.000013	-	-	0.000005	0.000006
Thallium	lb/hr	0.000002	0.000001	0.000001	-	-	0.000001	0.000001

a. Metal emissions from Volume Sources V-1 through V-13 calculated by multiplying total Volume Source PM (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.

b. Metal emissions from DC-1 are calculated by multiplying the estimated dust collector PM emission rate (lb/hr) by the metal concentrations from corresponding samples of material deposition at GII collected and analyzed in December 2019.

c. Chromium (metal) and compounds other than Chromium VI

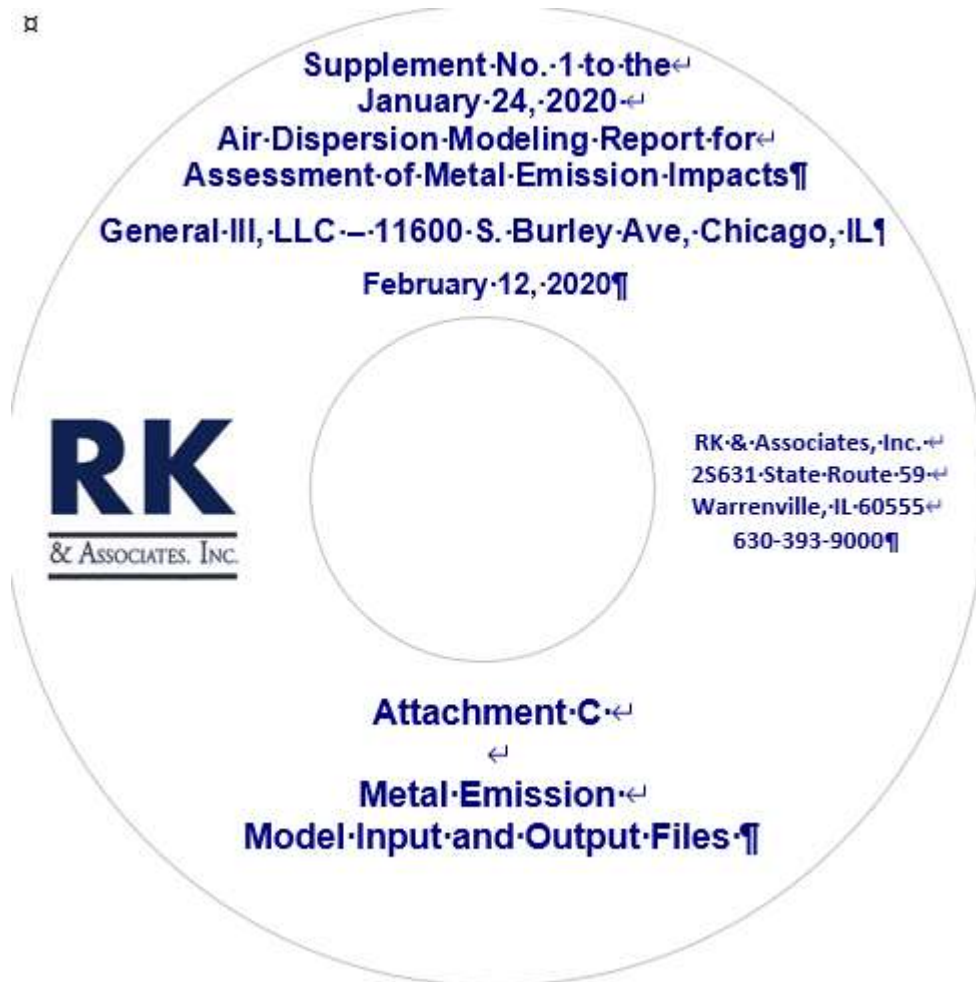
**Supplement No. 1 to the January 24, 2019
Air Dispersion Modeling Report for
Assessment of Metal Emission Impacts**

**General III, LLC – 11600 South Burley - Chicago, Illinois
Construction Permit Application 19090021; Site ID No.: 031600SFX**

February 12, 2020

Attachment C

Metal Emission Modeling Input and Output Files (CD-ROM)



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Layman, Robb

From: Sprague, Jeff
Sent: Friday, February 14, 2020 10:11 AM
To: Darina Demirev
Cc: John Pinion; Layman, Robb; Barria, German; Bernoteit, Bob; Romaine, Chris; Sprague, Jeff
Subject: RE: GIII modeling

Darina,

Thanks for the additional files. In looking at your most recent "VOLUME" source inputs (AERMOD input files in Supplement No. 1 to the January 24, 2020 Modeling Report), I see that there have been changes to the initial lateral dimensions (σ_y) and initial vertical dimensions (σ_z) for a significant number of these sources (e.g. V1-V13, VN1-VN6). What has prompted these changes? If you feel that these are correct, please provide a corrected table with these values, along with "Height of Emission Sources", "Length of Source Group", and "Release Height" for each volume source. Supplement No. 1 did discuss changes to the assigned emission rates for selected volume sources, but there was no discussion as to how the volume source "constructs" would change.

Thanks,

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: Darina Demirev <ddemirev@rka-inc.com>
Sent: Thursday, February 13, 2020 3:51 PM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Cc: John Pinion <jpinion@rka-inc.com>
Subject: [External] RE: GIII modeling

Jeff, attached are the Phosphorus DTA files.

Let me know if you need anything else.

Darina Demirev
RK & Associates, Inc.
630-393-9000

From: John Pinion <jpinion@rka-inc.com>
Sent: Thursday, February 13, 2020 3:44 PM
To: Darina Demirev <ddemirev@rka-inc.com>
Subject: FW: GIII modeling



If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Thursday, February 13, 2020 3:41 PM
To: John Pinion <jpinion@rka-inc.com>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Romaine, Chris <Chris.Romaine@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: GIII modeling

John,

Yes, I received it and I've started reviewing it. I did notice that the *.DTA files were missing for phosphorus on the CD. Can you e-mail me those files? I do have a potential issue with the size of some of the volume sources relative to the physical extent of the emission source(s) that they represent, but this is something I need to investigate further before I consider it a problem that needs to be corrected.

Thanks,

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Thursday, February 13, 2020 2:53 PM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] GIII modeling



Jeff,

Have you received the GIII Modeling Supplement No. 1? It was delivered to IEPA this morning and I e-mail a copy to you yesterday.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Phosphorus_2012_OTHER.DTA

 BEEST Express Run *****
 **BEE-Line Software: (Version 12.01) data input file
 ** Model: AERMOD File Creation Date: 2/7/2020 Time: 1:35:36 PM
 NO ECHO

CO STARTING
 CO TITLEONE Title One
 CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
 CO AVERTIME 24 ANNUAL
 CO POLLUTID OTHER
 CO RUNORNOT RUN
 CO FINISHED

SO STARTING
 SO ELEVUNIT METERS
 SO LOCATION RTO POINT 454280.579 4614874.64 178.19
 SO SRCPARAM RTO 0.0153087424873 12.4968 314.26 12.914194 1.8288
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO XBADJ RTO 6.90 3.87 0.73 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 -40.62 -44.68 -47.38
 SO XBADJ RTO -48.63 -48.42 -46.73 -47.44 -47.36 -45.83
 SO XBADJ RTO -42.92 -38.70 -33.30 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 1.61 4.89 8.03
 SO XBADJ RTO 10.92 13.47 15.62 14.39 12.24 9.72
 SO YBADJ RTO 21.11 24.78 27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 24.91 21.29 17.01
 SO YBADJ RTO 12.05 5.52 -1.19 -6.80 -11.98 -16.80
 SO YBADJ RTO -21.11 -24.78 -27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 -24.91 -21.29 -17.01
 SO YBADJ RTO -12.05 -5.52 1.19 6.80 11.98 16.80

Phosphorus_2012_OTHER.DTA

SO LOCATION V1	VOLUME	454297.692	4614928.02	178.19			
SO SRCPARAM V1		3.950033555E-05	0.6096	0.70884288	0.5670804		
SO LOCATION V2	VOLUME	454259.682	4614907.47	178.19			
SO SRCPARAM V2		4.762719885E-06	9.144	5.95423752	8.5060536		
SO LOCATION V3	VOLUME	454235.875	4614892.42	178.19			
SO SRCPARAM V3		1.469135287E-05	0.6096	0.42528744	0.5670804		
SO LOCATION V4	VOLUME	454226.98	4614887.08	178.19			
SO SRCPARAM V4		1.259474814E-06	3.81	3.54418392	3.54418392		
SO LOCATION V5	VOLUME	454218.08	4614878.54	178.19			
SO SRCPARAM V5		1.974386788E-05	3.81	1.41768576	3.54418392		
SO LOCATION V6	VOLUME	454225.909	4614867.5	178.19			
SO SRCPARAM V6		2.455698692E-05	5.334	4.2530268	4.96186968		
SO LOCATION V7	VOLUME	454197.08	4614871.06	178.19			
SO SRCPARAM V7		1.530874249E-05	4.572	1.41768576	4.2530268		
SO LOCATION V8	VOLUME	454193.521	4614874.62	178.19			
SO SRCPARAM V8		2.561536912E-06	4.572	1.41768576	4.2530268		
SO LOCATION V9	VOLUME	454213.452	4614885.66	178.19			
SO SRCPARAM V9		4.837058634E-06	3.81	1.7721072	3.54418392		
SO LOCATION V10	VOLUME	454173.38	4614858.04	178.19			
SO SRCPARAM V10		2.53129742E-05	0.9144	1.41768576	0.85060536		
SO LOCATION V11	VOLUME	454170.92	4614872.75	178.19			
SO SRCPARAM V11		2.095344754E-05	5.334	8.5060536	4.96186968		
SO LOCATION V12	VOLUME	454179.64	4614840.61	178.19			
SO SRCPARAM V12		2.095344754E-05	5.334	8.5060536	4.96186968		
SO LOCATION V13	VOLUME	454094.65	4614815.89	177.72			
SO SRCPARAM V13		5.954659835E-05	0.9144	1.41768576	0.85060536		
SO LOCATION VN1	VOLUME	454294.913	4614781.55	178.19			
SO SRCPARAM VN1		2.286861532E-04	6.096	7.08836784	5.67071256		
SO LOCATION VN2	VOLUME	454328.547	4614797.57	178.19			
SO SRCPARAM VN2		6.349033201E-05	6.096	7.08836784	5.67071256		
SO LOCATION VN3	VOLUME	454345.365	4614834.4	178.19			
SO SRCPARAM VN3		1.300298127E-04	3.81	7.08836784	3.54418392		
SO LOCATION VN4	VOLUME	454300.519	4614814.38	178.19			
SO SRCPARAM VN4		5.601865769E-06	3.81	7.08836784	3.54418392		
SO LOCATION VN5	VOLUME	454338.158	4614842.41	178.19			
SO SRCPARAM VN5		3.682918049E-06	3.81	7.08836784	3.54418392		
SO LOCATION VN6	VOLUME	454383.003	4614853.62	178.19			
SO SRCPARAM VN6		5.184812785E-05	3.81	2.83534104	3.54418392		
SO LOCATION DC1	POINT	454378.438	4614823.04	178.19			
SO SRCPARAM DC1		6.052938182E-05	14.3256	295.37	19.404171	0.6096	
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDWID DC1		66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1		60.44	65.23	68.04	68.78	67.44	64.04

Phosphorus_2012_OTHER.DTA

SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDWID DC1	66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1	60.44	65.23	68.04	68.78	67.44	64.04
SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO XBADJ DC1	-55.37	-56.48	-55.86	-53.55	-49.61	-44.17
SO XBADJ DC1	-45.52	-46.90	-46.86	-45.39	-42.55	-38.41
SO XBADJ DC1	-33.11	-26.80	-19.67	-18.08	-17.02	-15.45
SO XBADJ DC1	-13.41	-10.96	-8.18	-5.15	-1.96	1.29
SO XBADJ DC1	-3.62	-9.86	-15.79	-21.25	-26.06	-30.08
SO XBADJ DC1	-33.18	-35.28	-36.30	-42.36	-48.21	-52.59
SO YBADJ DC1	12.07	8.24	4.17	-0.04	-4.24	-8.32
SO YBADJ DC1	-12.14	-15.59	-18.57	-20.98	-22.76	-23.84
SO YBADJ DC1	-24.20	-23.83	-22.73	-20.95	-18.52	-15.53
SO YBADJ DC1	-12.07	-8.24	-4.17	0.04	4.24	8.32
SO YBADJ DC1	12.14	15.59	18.57	20.98	22.76	23.84
SO YBADJ DC1	24.20	23.83	22.73	20.95	18.52	15.53
SO LOCATION AB_0001 VOLUME	454569.7	4615033.84	178.19			
SO SRCPARAM AB_0001	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0002 VOLUME	454557.7	4615033.84	178.19			
SO SRCPARAM AB_0002	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0003 VOLUME	454545.7	4615033.84	178.19			
SO SRCPARAM AB_0003	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0004 VOLUME	454533.7	4615033.84	178.19			
SO SRCPARAM AB_0004	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0005 VOLUME	454521.7	4615033.84	178.19			
SO SRCPARAM AB_0005	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0006 VOLUME	454509.7	4615033.84	178.19			
SO SRCPARAM AB_0006	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0007 VOLUME	454497.7	4615033.84	178.19			
SO SRCPARAM AB_0007	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0008 VOLUME	454485.7	4615033.84	178.19			
SO SRCPARAM AB_0008	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0009 VOLUME	454473.7	4615033.84	178.19			
SO SRCPARAM AB_0009	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0010 VOLUME	454461.7	4615033.84	178.19			
SO SRCPARAM AB_0010	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION CDE_0001 VOLUME	454449.996	4615030.05	178.19			
SO SRCPARAM CDE_0001	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0002 VOLUME	454440.148	4615023.19	178.19			
SO SRCPARAM CDE_0002	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0003 VOLUME	454430.299	4615016.34	178.19			
SO SRCPARAM CDE_0003	1.272326598E-06	2.59	5.58	2.41		

Phosphorus_2012_OTHER.DTA

SO	LOCATION	CDE_0004	VOLUME	454420.675	4615009.19	178.19	
SO	SRCPARAM	CDE_0004		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0005	VOLUME	454411.484	4615001.47	178.19	
SO	SRCPARAM	CDE_0005		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0006	VOLUME	454402.292	4614993.76	178.19	
SO	SRCPARAM	CDE_0006		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0007	VOLUME	454394.404	4614984.73	178.19	
SO	SRCPARAM	CDE_0007		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0008	VOLUME	454386.594	4614975.62	178.19	
SO	SRCPARAM	CDE_0008		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0009	VOLUME	454380.888	4614965.12	178.19	
SO	SRCPARAM	CDE_0009		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0010	VOLUME	454375.67	4614954.32	178.19	
SO	SRCPARAM	CDE_0010		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0011	VOLUME	454370.542	4614943.47	178.19	
SO	SRCPARAM	CDE_0011		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0012	VOLUME	454366.572	4614932.28	178.19	
SO	SRCPARAM	CDE_0012		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0013	VOLUME	454364.926	4614920.39	178.19	
SO	SRCPARAM	CDE_0013		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0014	VOLUME	454361.686	4614909.6	178.19	
SO	SRCPARAM	CDE_0014		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0015	VOLUME	454351.165	4614903.83	178.19	
SO	SRCPARAM	CDE_0015		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0016	VOLUME	454340.644	4614898.06	178.19	
SO	SRCPARAM	CDE_0016		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0017	VOLUME	454330.123	4614892.29	178.19	
SO	SRCPARAM	CDE_0017		1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0018	VOLUME	454319.602	4614886.52	178.19	
SO	SRCPARAM	CDE_0018		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0019	VOLUME	454309.08	4614880.75	178.19	
SO	SRCPARAM	CDE_0019		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0020	VOLUME	454298.559	4614874.97	178.19	
SO	SRCPARAM	CDE_0020		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0021	VOLUME	454288.038	4614869.2	178.19	
SO	SRCPARAM	CDE_0021		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0022	VOLUME	454277.517	4614863.43	178.19	
SO	SRCPARAM	CDE_0022		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0023	VOLUME	454266.996	4614857.66	178.19	
SO	SRCPARAM	CDE_0023		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0024	VOLUME	454256.475	4614851.89	178.19	
SO	SRCPARAM	CDE_0024		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0025	VOLUME	454245.953	4614846.12	178.19	
SO	SRCPARAM	CDE_0025		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0026	VOLUME	454235.432	4614840.35	178.19	
SO	SRCPARAM	CDE_0026		2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0027	VOLUME	454224.911	4614834.58	178.19	
SO	SRCPARAM	CDE_0027		2.643561532E-06	2.59	5.58	2.41

Phosphorus_2012_OTHER.DTA

SO LOCATION CDE_0028 VOLUME 454214.39 4614828.81 178.19
SO SRCPARAM CDE_0028 2.643561532E-06 2.59 5.58 2.41
SO LOCATION CDE_0029 VOLUME 454203.869 4614823.03 178.19
SO SRCPARAM CDE_0029 2.643561532E-06 2.59 5.58 2.41
SO LOCATION I_0001 VOLUME 454452.749 4615028.45 178.19
SO SRCPARAM I_0001 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0002 VOLUME 454447.62 4615017.6 178.19
SO SRCPARAM I_0002 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0003 VOLUME 454442.491 4615006.75 178.19
SO SRCPARAM I_0003 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0004 VOLUME 454437.363 4614995.9 178.19
SO SRCPARAM I_0004 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0005 VOLUME 454432.234 4614985.05 178.19
SO SRCPARAM I_0005 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0006 VOLUME 454427.105 4614974.21 178.19
SO SRCPARAM I_0006 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0007 VOLUME 454421.976 4614963.36 178.19
SO SRCPARAM I_0007 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0008 VOLUME 454416.847 4614952.51 178.19
SO SRCPARAM I_0008 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0009 VOLUME 454411.718 4614941.66 178.19
SO SRCPARAM I_0009 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0010 VOLUME 454406.589 4614930.81 178.19
SO SRCPARAM I_0010 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0011 VOLUME 454401.46 4614919.96 178.19
SO SRCPARAM I_0011 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0012 VOLUME 454396.332 4614909.11 178.19
SO SRCPARAM I_0012 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0013 VOLUME 454391.203 4614898.26 178.19
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SO LOCATION I_0014 VOLUME 454386.074 4614887.42 178.19
SO SRCPARAM I_0014 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0015 VOLUME 454380.945 4614876.57 178.19
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SO LOCATION I_0016 VOLUME 454375.816 4614865.72 178.19
SO SRCPARAM I_0016 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0017 VOLUME 454370.687 4614854.87 178.19
SO SRCPARAM I_0017 2.763889508E-07 2.59 5.58 2.41
SO LOCATION H_0001 VOLUME 454569.74 4615048.61 178.19
SO SRCPARAM H_0001 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0002 VOLUME 454557.74 4615048.58 178.19
SO SRCPARAM H_0002 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0003 VOLUME 454545.74 4615048.55 178.19
SO SRCPARAM H_0003 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0004 VOLUME 454533.74 4615048.51 178.19
SO SRCPARAM H_0004 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0005 VOLUME 454521.74 4615048.48 178.19
SO SRCPARAM H_0005 1.777830095E-06 2.59 5.58 2.41

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SO LOCATION H_0006 VOLUME 454509.74 4615048.45 178.19
SO SRCPARAM H_0006 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0007 VOLUME 454497.74 4615048.41 178.19
SO SRCPARAM H_0007 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0008 VOLUME 454485.74 4615048.38 178.19
SO SRCPARAM H_0008 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0009 VOLUME 454473.826 4615049.52 178.19
SO SRCPARAM H_0009 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0010 VOLUME 454462.408 4615052.96 178.19
SO SRCPARAM H_0010 1.777830095E-06 2.59 5.58 2.41
SO LOCATION FG_0001 VOLUME 454450.378 4615031.43 178.19
SO SRCPARAM FG_0001 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0002 VOLUME 454439.841 4615025.69 178.19
SO SRCPARAM FG_0002 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0003 VOLUME 454429.304 4615019.95 178.19
SO SRCPARAM FG_0003 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0004 VOLUME 454418.767 4615014.21 178.19
SO SRCPARAM FG_0004 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0005 VOLUME 454408.23 4615008.46 178.19
SO SRCPARAM FG_0005 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0006 VOLUME 454397.693 4615002.72 178.19
SO SRCPARAM FG_0006 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0007 VOLUME 454387.156 4614996.98 178.19
SO SRCPARAM FG_0007 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0008 VOLUME 454376.619 4614991.24 178.19
SO SRCPARAM FG_0008 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0009 VOLUME 454366.082 4614985.5 178.19
SO SRCPARAM FG_0009 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0010 VOLUME 454355.545 4614979.75 178.19
SO SRCPARAM FG_0010 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0011 VOLUME 454345.008 4614974.01 178.19
SO SRCPARAM FG_0011 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0012 VOLUME 454334.471 4614968.27 178.19
SO SRCPARAM FG_0012 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0013 VOLUME 454323.934 4614962.53 178.19
SO SRCPARAM FG_0013 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0014 VOLUME 454313.397 4614956.79 178.19
SO SRCPARAM FG_0014 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0015 VOLUME 454301.708 4614955.36 178.19
SO SRCPARAM FG_0015 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0016 VOLUME 454289.711 4614955.09 178.19
SO SRCPARAM FG_0016 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0017 VOLUME 454277.714 4614954.82 178.19
SO SRCPARAM FG_0017 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0018 VOLUME 454266.978 4614949.96 178.19
SO SRCPARAM FG_0018 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0019 VOLUME 454256.532 4614944.06 178.19
SO SRCPARAM FG_0019 2.674557011E-06 2.59 5.58 2.41

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SO LOCATION FG_0020 VOLUME 454246.087 4614938.15 178.19
SO SRCPARAM FG_0020 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0021 VOLUME 454235.642 4614932.24 178.19
SO SRCPARAM FG_0021 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0022 VOLUME 454225.196 4614926.34 178.19
SO SRCPARAM FG_0022 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0023 VOLUME 454214.751 4614920.43 178.19
SO SRCPARAM FG_0023 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0024 VOLUME 454204.305 4614914.52 178.19
SO SRCPARAM FG_0024 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0025 VOLUME 454193.86 4614908.61 178.19
SO SRCPARAM FG_0025 2.674557011E-06 2.59 5.58 2.41
SO EMISFACT RTO HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
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SO EMISFACT RTO HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V2 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
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SO EMISFACT V2 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
SO EMISFACT V3 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V3 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
SO EMISFACT V5 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V5 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
SO EMISFACT V7 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V7 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
SO EMISFACT V8 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V8 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0
SO EMISFACT V1 HRDOW 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 1 1 1 1 1 1 1
1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 1 1 1 1 1
SO EMISFACT V1 HRDOW 1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
SO EMISFACT V4 HRDOW 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 1 1 1 1 1 1 1
1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 1 1 1 1 1
SO EMISFACT V4 HRDOW 1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
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Phosphorus_2012_OTHER.DTA

SO EMISFACT H_0004 HRDOW 1 1 1 1 1 0
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 SO EMISFACT H_0007 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
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 SO EMISFACT H_0007 HRDOW 1 1 1 1 1 0
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 1 1 1 1 1 1
 SO EMISFACT H_0008 HRDOW 1 1 1 1 1 0
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 1 1 1 1 1 1
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 SO EMISFACT H_0010 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
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 SO EMISFACT FG_0001 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
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 SO EMISFACT FG_0003 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
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 0 0 0 0 0 0 0
 SO EMISFACT FG_0005 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
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 SO EMISFACT FG_0005 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0006 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1

Phosphorus_2012_OTHER.DTA

SO EMISFACT FG_0018 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0019 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0019 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0020 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0020 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0021 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0021 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0022 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0022 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0023 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0023 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0024 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0024 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0025 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0025 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT V6 HRDOW 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1
SO EMISFACT V6 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
SO EMISFACT V13 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1
SO EMISFACT V13 HRDOW 1 1 1 0
0 0 0 0 0
SO EMISFACT V10 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1.7456 1.7456 1.7456 1.7456 0 0
0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
SO EMISFACT V10 HRDOW 1 1 1 1.7456 1.7456 0
0 0 0 0 0 0 0 0 0
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS

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RE DISCCART	454084.4	4615065.4	176.19	178.19
RE DISCCART	454083.3	4615039.8	176.07	178.19
RE DISCCART	454082.2	4615014.1	175.94	178.19
RE DISCCART	454085.1	4614964.6	176.36	178.19
RE DISCCART	454088.0	4614915.0	176.78	176.78
RE DISCCART	454091.0	4614865.5	177.21	177.21
RE DISCCART	454093.9	4614816.0	177.63	177.63
RE DISCCART	454096.8	4614766.4	177.99	177.99
RE DISCCART	454099.7	4614716.9	178.2	178.2
RE DISCCART	454102.6	4614667.3	176.81	176.81
RE DISCCART	454105.5	4614617.8	176.3	178.19
RE DISCCART	454108.5	4614568.3	176.73	178.19
RE DISCCART	454111.4	4614518.7	177.14	177.14
RE DISCCART	454114.3	4614469.2	177.56	178.19
RE DISCCART	454107.8	4614425.2	176.75	176.75
RE DISCCART	454101.3	4614381.1	178.05	178.05
RE DISCCART	454094.7	4614337.1	177.87	177.87
RE DISCCART	454088.2	4614293.0	177.6	178.57
RE DISCCART	454081.7	4614249.0	176.52	178.19
RE DISCCART	454082.2	4614201.8	177.25	177.25
RE DISCCART	454082.8	4614154.7	177.44	177.44
RE DISCCART	454121.4	4614157.8	178.19	178.19
RE DISCCART	454160.0	4614160.9	178.19	178.19
RE DISCCART	454191.3	4614179.4	178.19	178.19
RE DISCCART	454222.7	4614198.0	178.19	178.19
RE DISCCART	454254.0	4614216.5	178.19	178.19
RE DISCCART	454253.2	4614226.3	178.19	178.19
RE DISCCART	454296.0	4614249.3	178.19	178.19
RE DISCCART	454338.8	4614272.3	178.19	178.19
RE DISCCART	454381.7	4614295.3	178.19	178.19
RE DISCCART	454424.5	4614318.3	178.19	178.19
RE DISCCART	454467.3	4614341.4	178.19	178.19
RE DISCCART	454510.2	4614364.4	178.19	178.19
RE DISCCART	454553.0	4614387.4	178.19	178.19
RE DISCCART	454595.8	4614410.4	178.19	178.19
RE DISCCART	454595.8	4614459.2	178.19	178.19
RE DISCCART	454595.8	4614507.9	178.19	178.19
RE DISCCART	454595.8	4614556.7	178.19	178.19
RE DISCCART	454595.8	4614605.5	178.19	178.19
RE DISCCART	454595.8	4614654.3	178.19	178.19
RE DISCCART	454595.8	4614703.0	178.19	178.19
RE DISCCART	454595.8	4614751.8	178.19	178.19
RE DISCCART	454595.8	4614800.6	178.19	178.19
RE DISCCART	454595.8	4614849.3	178.19	178.19
RE DISCCART	454595.8	4614898.1	178.19	178.19
RE DISCCART	454595.8	4614946.9	178.19	178.19
RE DISCCART	454595.8	4614995.6	178.19	178.19
RE DISCCART	454595.8	4615044.4	178.19	178.19

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RE DISCCART	454595.8	4615093.2	178.19	178.19
RE DISCCART	454595.8	4615142.0	178.19	178.19
RE DISCCART	454595.8	4615190.7	178.19	178.19
RE DISCCART	454595.8	4615239.5	178.19	178.19
RE DISCCART	454551.9	4615219.2	178.19	178.19
RE DISCCART	454508.0	4615199.0	178.19	178.19
RE DISCCART	454484.5	4615239.5	178.19	178.19
RE DISCCART	454461.1	4615279.9	178.19	178.19
RE DISCCART	454413.6	4615286.6	178.19	178.19
RE DISCCART	454376.8	4615266.9	178.19	178.19
RE DISCCART	454340.0	4615247.2	178.19	178.19
RE DISCCART	454303.1	4615227.5	178.19	178.19
RE DISCCART	454266.3	4615207.8	178.19	178.19
RE DISCCART	454229.5	4615188.1	178.19	178.19
RE DISCCART	454251.0	4615155.9	178.19	178.19
RE DISCCART	454209.3	4615133.3	178.19	178.19
RE DISCCART	454167.7	4615110.7	178.19	178.19
RE DISCCART	454126.1	4615088.0	178.19	178.19
RE DISCCART	452000.0	4612100.0	178.89	225.29
RE DISCCART	452100.0	4612100.0	179.74	225.23
RE DISCCART	452200.0	4612100.0	183.31	183.31
RE DISCCART	452300.0	4612100.0	175.19	186.65
RE DISCCART	452400.0	4612100.0	185.71	185.71
RE DISCCART	452500.0	4612100.0	181.89	181.89
RE DISCCART	452600.0	4612100.0	179.36	179.36
RE DISCCART	452700.0	4612100.0	178.43	178.43
RE DISCCART	452800.0	4612100.0	178.43	178.43
RE DISCCART	452900.0	4612100.0	178.42	178.42
RE DISCCART	453000.0	4612100.0	178.44	178.44
RE DISCCART	453100.0	4612100.0	178.62	178.62
RE DISCCART	453200.0	4612100.0	178.43	178.43
RE DISCCART	453300.0	4612100.0	178.39	178.39
RE DISCCART	453400.0	4612100.0	178.41	178.41
RE DISCCART	453500.0	4612100.0	178.39	178.39
RE DISCCART	453600.0	4612100.0	178.39	178.39
RE DISCCART	453700.0	4612100.0	178.39	178.39
RE DISCCART	453800.0	4612100.0	178.39	178.39
RE DISCCART	453900.0	4612100.0	178.53	178.53
RE DISCCART	454000.0	4612100.0	180.08	180.08
RE DISCCART	454100.0	4612100.0	179.12	179.12
RE DISCCART	454200.0	4612100.0	178.21	178.21
RE DISCCART	454300.0	4612100.0	178.19	178.19
RE DISCCART	454400.0	4612100.0	178.19	178.19
RE DISCCART	454500.0	4612100.0	178.19	178.19
RE DISCCART	454600.0	4612100.0	178.21	178.21
RE DISCCART	454700.0	4612100.0	181.09	181.09
RE DISCCART	454800.0	4612100.0	183.49	183.49
RE DISCCART	454900.0	4612100.0	178.44	178.44

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RE DISCCART	455000.0	4612100.0	178.19	178.19
RE DISCCART	455100.0	4612100.0	178.19	178.19
RE DISCCART	455200.0	4612100.0	178.22	178.22
RE DISCCART	455300.0	4612100.0	177.85	177.85
RE DISCCART	455400.0	4612100.0	177.59	177.59
RE DISCCART	455500.0	4612100.0	177.74	177.74
RE DISCCART	455600.0	4612100.0	178.34	178.34
RE DISCCART	455700.0	4612100.0	177.59	177.59
RE DISCCART	455800.0	4612100.0	177.6	177.6
RE DISCCART	455900.0	4612100.0	177.71	177.71
RE DISCCART	456000.0	4612100.0	178.24	178.24
RE DISCCART	456100.0	4612100.0	177.15	177.15
RE DISCCART	456200.0	4612100.0	177.15	177.15
RE DISCCART	456300.0	4612100.0	177.98	177.98
RE DISCCART	456400.0	4612100.0	178.57	178.57
RE DISCCART	456500.0	4612100.0	178.69	178.69
RE DISCCART	456600.0	4612100.0	178.42	178.42
RE DISCCART	452000.0	4612200.0	179.59	179.59
RE DISCCART	452100.0	4612200.0	180.09	180.09
RE DISCCART	452200.0	4612200.0	179.98	179.98
RE DISCCART	452300.0	4612200.0	175.2	185.77
RE DISCCART	452400.0	4612200.0	175.22	186.65
RE DISCCART	452500.0	4612200.0	178.35	178.35
RE DISCCART	452600.0	4612200.0	178.65	178.65
RE DISCCART	452700.0	4612200.0	178.69	178.69
RE DISCCART	452800.0	4612200.0	178.49	178.49
RE DISCCART	452900.0	4612200.0	178.39	178.39
RE DISCCART	453000.0	4612200.0	178.39	178.39
RE DISCCART	453100.0	4612200.0	178.39	178.39
RE DISCCART	453200.0	4612200.0	178.39	178.39
RE DISCCART	453300.0	4612200.0	178.39	178.39
RE DISCCART	453400.0	4612200.0	178.39	178.39
RE DISCCART	453500.0	4612200.0	178.4	178.4
RE DISCCART	453600.0	4612200.0	178.39	178.39
RE DISCCART	453700.0	4612200.0	178.39	178.39
RE DISCCART	453800.0	4612200.0	178.39	178.39
RE DISCCART	453900.0	4612200.0	178.69	178.69
RE DISCCART	454000.0	4612200.0	179.34	179.34
RE DISCCART	454100.0	4612200.0	179.1	179.1
RE DISCCART	454200.0	4612200.0	178.47	178.47
RE DISCCART	454300.0	4612200.0	178.19	178.19
RE DISCCART	454400.0	4612200.0	178.19	178.19
RE DISCCART	454500.0	4612200.0	178.19	178.19
RE DISCCART	454600.0	4612200.0	182.05	182.05
RE DISCCART	454700.0	4612200.0	183.94	183.94
RE DISCCART	454800.0	4612200.0	184.27	184.27
RE DISCCART	454900.0	4612200.0	180.97	180.97
RE DISCCART	455000.0	4612200.0	178.26	178.26

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RE DISCCART	455100.0	4612200.0	178.19	178.19
RE DISCCART	455200.0	4612200.0	177.87	177.87
RE DISCCART	455300.0	4612200.0	177.7	177.7
RE DISCCART	455400.0	4612200.0	177.59	177.59
RE DISCCART	455500.0	4612200.0	177.59	177.59
RE DISCCART	455600.0	4612200.0	177.59	177.59
RE DISCCART	455700.0	4612200.0	177.59	177.59
RE DISCCART	455800.0	4612200.0	177.59	177.59
RE DISCCART	455900.0	4612200.0	177.59	177.59
RE DISCCART	456000.0	4612200.0	177.59	177.59
RE DISCCART	456100.0	4612200.0	177.12	177.12
RE DISCCART	456200.0	4612200.0	177.38	177.38
RE DISCCART	456300.0	4612200.0	178.25	178.25
RE DISCCART	456400.0	4612200.0	178.12	178.12
RE DISCCART	456500.0	4612200.0	178.36	178.36
RE DISCCART	456600.0	4612200.0	178.45	178.45
RE DISCCART	452000.0	4612300.0	179.2	179.2
RE DISCCART	452100.0	4612300.0	179.09	179.09
RE DISCCART	452200.0	4612300.0	178.7	178.7
RE DISCCART	452300.0	4612300.0	175.19	175.19
RE DISCCART	452400.0	4612300.0	175.19	175.19
RE DISCCART	452500.0	4612300.0	175.98	175.98
RE DISCCART	452600.0	4612300.0	178.29	178.29
RE DISCCART	452700.0	4612300.0	178.63	178.63
RE DISCCART	452800.0	4612300.0	178.65	178.65
RE DISCCART	452900.0	4612300.0	178.42	178.42
RE DISCCART	453000.0	4612300.0	178.39	178.39
RE DISCCART	453100.0	4612300.0	178.39	178.39
RE DISCCART	453200.0	4612300.0	178.39	178.39
RE DISCCART	453300.0	4612300.0	178.39	178.39
RE DISCCART	453400.0	4612300.0	178.55	178.55
RE DISCCART	453500.0	4612300.0	178.49	178.49
RE DISCCART	453600.0	4612300.0	178.39	178.39
RE DISCCART	453700.0	4612300.0	178.39	178.39
RE DISCCART	453800.0	4612300.0	178.68	178.68
RE DISCCART	453900.0	4612300.0	178.86	178.86
RE DISCCART	454000.0	4612300.0	179.04	179.04
RE DISCCART	454100.0	4612300.0	178.92	178.92
RE DISCCART	454200.0	4612300.0	178.38	178.38
RE DISCCART	454300.0	4612300.0	178.19	178.19
RE DISCCART	454400.0	4612300.0	177.9	177.9
RE DISCCART	454500.0	4612300.0	178.19	178.19
RE DISCCART	454600.0	4612300.0	184.17	184.17
RE DISCCART	454700.0	4612300.0	182.35	182.35
RE DISCCART	454800.0	4612300.0	184.24	184.24
RE DISCCART	454900.0	4612300.0	182.36	182.36
RE DISCCART	455000.0	4612300.0	178.21	178.21
RE DISCCART	455100.0	4612300.0	178.19	178.19

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RE DISCCART	455200.0	4612300.0	177.59	177.59
RE DISCCART	455300.0	4612300.0	177.59	177.59
RE DISCCART	455400.0	4612300.0	177.59	177.59
RE DISCCART	455500.0	4612300.0	177.59	177.59
RE DISCCART	455600.0	4612300.0	177.59	177.59
RE DISCCART	455700.0	4612300.0	177.59	177.59
RE DISCCART	455800.0	4612300.0	177.59	177.59
RE DISCCART	455900.0	4612300.0	177.59	177.59
RE DISCCART	456000.0	4612300.0	177.55	177.55
RE DISCCART	456100.0	4612300.0	177.09	177.09
RE DISCCART	456200.0	4612300.0	177.09	177.09
RE DISCCART	456300.0	4612300.0	178.18	178.18
RE DISCCART	456400.0	4612300.0	182.91	182.91
RE DISCCART	456500.0	4612300.0	182.22	182.22
RE DISCCART	456600.0	4612300.0	177.65	177.65
RE DISCCART	452000.0	4612400.0	178.48	178.48
RE DISCCART	452100.0	4612400.0	177.93	177.93
RE DISCCART	452200.0	4612400.0	175.32	175.32
RE DISCCART	452300.0	4612400.0	175.19	175.19
RE DISCCART	452400.0	4612400.0	175.19	175.19
RE DISCCART	452500.0	4612400.0	175.19	175.19
RE DISCCART	452600.0	4612400.0	176.76	178.76
RE DISCCART	452700.0	4612400.0	178.33	178.33
RE DISCCART	452800.0	4612400.0	178.55	178.55
RE DISCCART	452900.0	4612400.0	178.65	178.65
RE DISCCART	453000.0	4612400.0	178.39	178.39
RE DISCCART	453100.0	4612400.0	178.39	178.39
RE DISCCART	453200.0	4612400.0	178.49	178.49
RE DISCCART	453300.0	4612400.0	178.66	178.66
RE DISCCART	453400.0	4612400.0	178.66	178.66
RE DISCCART	453500.0	4612400.0	178.69	178.69
RE DISCCART	453600.0	4612400.0	178.57	178.57
RE DISCCART	453700.0	4612400.0	178.53	178.53
RE DISCCART	453800.0	4612400.0	178.84	178.84
RE DISCCART	453900.0	4612400.0	178.89	178.89
RE DISCCART	454000.0	4612400.0	178.87	178.87
RE DISCCART	454100.0	4612400.0	178.84	178.84
RE DISCCART	454200.0	4612400.0	178.24	178.24
RE DISCCART	454300.0	4612400.0	178.19	178.19
RE DISCCART	454400.0	4612400.0	176.93	176.93
RE DISCCART	454500.0	4612400.0	178.19	178.19
RE DISCCART	454600.0	4612400.0	184.29	184.29
RE DISCCART	454700.0	4612400.0	182.42	182.42
RE DISCCART	454800.0	4612400.0	182.87	182.87
RE DISCCART	454900.0	4612400.0	182.44	182.44
RE DISCCART	455000.0	4612400.0	178.19	178.19
RE DISCCART	455100.0	4612400.0	178.2	178.2
RE DISCCART	455200.0	4612400.0	177.62	177.62

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RE DISCCART	455300.0	4612400.0	177.59	177.59
RE DISCCART	455400.0	4612400.0	177.59	177.59
RE DISCCART	455500.0	4612400.0	177.59	177.59
RE DISCCART	455600.0	4612400.0	177.59	177.59
RE DISCCART	455700.0	4612400.0	177.59	177.59
RE DISCCART	455800.0	4612400.0	178.04	178.04
RE DISCCART	455900.0	4612400.0	177.59	177.59
RE DISCCART	456000.0	4612400.0	177.59	177.59
RE DISCCART	456100.0	4612400.0	177.09	177.09
RE DISCCART	456200.0	4612400.0	177.09	177.09
RE DISCCART	456300.0	4612400.0	177.21	177.21
RE DISCCART	456400.0	4612400.0	179.08	179.08
RE DISCCART	456500.0	4612400.0	177.09	184.88
RE DISCCART	456600.0	4612400.0	177.09	177.09
RE DISCCART	452000.0	4612500.0	175.19	175.19
RE DISCCART	452100.0	4612500.0	175.19	175.19
RE DISCCART	452200.0	4612500.0	175.19	175.19
RE DISCCART	452300.0	4612500.0	175.19	175.19
RE DISCCART	452400.0	4612500.0	175.19	175.19
RE DISCCART	452500.0	4612500.0	175.19	175.19
RE DISCCART	452600.0	4612500.0	175.19	175.19
RE DISCCART	452700.0	4612500.0	175.19	175.19
RE DISCCART	452800.0	4612500.0	176.4	176.4
RE DISCCART	452900.0	4612500.0	178.81	178.81
RE DISCCART	453000.0	4612500.0	178.41	178.41
RE DISCCART	453100.0	4612500.0	178.43	178.43
RE DISCCART	453200.0	4612500.0	178.78	178.78
RE DISCCART	453300.0	4612500.0	178.88	178.88
RE DISCCART	453400.0	4612500.0	178.89	178.89
RE DISCCART	453500.0	4612500.0	178.88	178.88
RE DISCCART	453600.0	4612500.0	178.83	178.83
RE DISCCART	453700.0	4612500.0	178.86	178.86
RE DISCCART	453800.0	4612500.0	178.89	178.89
RE DISCCART	453900.0	4612500.0	178.79	178.79
RE DISCCART	454000.0	4612500.0	179.09	179.09
RE DISCCART	454100.0	4612500.0	179.7	179.7
RE DISCCART	454200.0	4612500.0	178.44	178.44
RE DISCCART	454300.0	4612500.0	178.19	178.19
RE DISCCART	454400.0	4612500.0	177.42	177.42
RE DISCCART	454500.0	4612500.0	178.2	178.2
RE DISCCART	454600.0	4612500.0	184.46	184.46
RE DISCCART	454700.0	4612500.0	182.06	182.06
RE DISCCART	454800.0	4612500.0	183.02	183.02
RE DISCCART	454900.0	4612500.0	182.32	182.32
RE DISCCART	455000.0	4612500.0	178.19	178.19
RE DISCCART	455100.0	4612500.0	178.29	178.29
RE DISCCART	455200.0	4612500.0	177.58	177.58
RE DISCCART	455300.0	4612500.0	178.1	178.1

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RE DISCCART	455400.0	4612500.0	177.59	177.59
RE DISCCART	455500.0	4612500.0	177.59	177.59
RE DISCCART	455600.0	4612500.0	177.59	177.59
RE DISCCART	455700.0	4612500.0	177.59	177.59
RE DISCCART	455800.0	4612500.0	177.62	177.62
RE DISCCART	455900.0	4612500.0	177.59	177.59
RE DISCCART	456000.0	4612500.0	177.59	177.59
RE DISCCART	456100.0	4612500.0	177.09	177.09
RE DISCCART	456200.0	4612500.0	177.09	177.09
RE DISCCART	456300.0	4612500.0	177.23	177.23
RE DISCCART	456400.0	4612500.0	178.44	178.44
RE DISCCART	456500.0	4612500.0	177.09	177.09
RE DISCCART	456600.0	4612500.0	177.09	177.09
RE DISCCART	452000.0	4612600.0	177.13	177.75
RE DISCCART	452100.0	4612600.0	177.92	177.92
RE DISCCART	452200.0	4612600.0	177.98	177.98
RE DISCCART	452300.0	4612600.0	178.16	178.16
RE DISCCART	452400.0	4612600.0	178.18	178.18
RE DISCCART	452500.0	4612600.0	178.22	178.22
RE DISCCART	452600.0	4612600.0	177.25	177.25
RE DISCCART	452700.0	4612600.0	175.19	175.19
RE DISCCART	452800.0	4612600.0	175.19	175.19
RE DISCCART	452900.0	4612600.0	178.65	178.65
RE DISCCART	453000.0	4612600.0	179.49	179.49
RE DISCCART	453100.0	4612600.0	179.28	179.28
RE DISCCART	453200.0	4612600.0	179.18	179.18
RE DISCCART	453300.0	4612600.0	179.19	179.19
RE DISCCART	453400.0	4612600.0	179.08	179.08
RE DISCCART	453500.0	4612600.0	179.09	179.09
RE DISCCART	453600.0	4612600.0	179.	179.
RE DISCCART	453700.0	4612600.0	179.09	179.09
RE DISCCART	453800.0	4612600.0	179.1	179.1
RE DISCCART	453900.0	4612600.0	178.79	178.79
RE DISCCART	454000.0	4612600.0	179.62	179.62
RE DISCCART	454100.0	4612600.0	178.55	178.55
RE DISCCART	454200.0	4612600.0	178.36	178.36
RE DISCCART	454300.0	4612600.0	178.19	178.19
RE DISCCART	454400.0	4612600.0	177.52	177.52
RE DISCCART	454500.0	4612600.0	178.16	178.16
RE DISCCART	454600.0	4612600.0	182.04	182.04
RE DISCCART	454700.0	4612600.0	182.15	193.99
RE DISCCART	454800.0	4612600.0	183.89	193.99
RE DISCCART	454900.0	4612600.0	183.7	183.7
RE DISCCART	455000.0	4612600.0	178.38	178.38
RE DISCCART	455100.0	4612600.0	178.19	178.19
RE DISCCART	455200.0	4612600.0	178.05	178.05
RE DISCCART	455300.0	4612600.0	177.6	177.6
RE DISCCART	455400.0	4612600.0	177.59	177.59

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RE DISCCART	455500.0	4612600.0	177.89	177.89
RE DISCCART	455600.0	4612600.0	178.04	178.04
RE DISCCART	455700.0	4612600.0	177.59	177.59
RE DISCCART	455800.0	4612600.0	177.59	177.59
RE DISCCART	455900.0	4612600.0	177.59	177.59
RE DISCCART	456000.0	4612600.0	177.59	177.59
RE DISCCART	456100.0	4612600.0	177.09	177.09
RE DISCCART	456200.0	4612600.0	177.09	177.09
RE DISCCART	456300.0	4612600.0	177.25	177.25
RE DISCCART	456400.0	4612600.0	177.62	177.62
RE DISCCART	456500.0	4612600.0	177.09	177.09
RE DISCCART	456600.0	4612600.0	177.09	177.09
RE DISCCART	452000.0	4612700.0	178.29	178.29
RE DISCCART	452100.0	4612700.0	178.29	178.29
RE DISCCART	452200.0	4612700.0	178.29	178.29
RE DISCCART	452300.0	4612700.0	178.45	178.45
RE DISCCART	452400.0	4612700.0	178.29	178.29
RE DISCCART	452500.0	4612700.0	178.29	178.29
RE DISCCART	452600.0	4612700.0	178.29	178.29
RE DISCCART	452700.0	4612700.0	178.3	178.3
RE DISCCART	452800.0	4612700.0	175.19	175.19
RE DISCCART	452900.0	4612700.0	175.9	175.9
RE DISCCART	453000.0	4612700.0	179.11	179.11
RE DISCCART	453100.0	4612700.0	179.52	179.52
RE DISCCART	453200.0	4612700.0	179.43	179.43
RE DISCCART	453300.0	4612700.0	179.39	179.39
RE DISCCART	453400.0	4612700.0	179.06	179.06
RE DISCCART	453500.0	4612700.0	178.99	178.99
RE DISCCART	453600.0	4612700.0	179.	179.
RE DISCCART	453700.0	4612700.0	179.26	179.26
RE DISCCART	453800.0	4612700.0	179.35	179.35
RE DISCCART	453900.0	4612700.0	179.43	179.43
RE DISCCART	454000.0	4612700.0	179.34	179.34
RE DISCCART	454100.0	4612700.0	177.85	177.85
RE DISCCART	454200.0	4612700.0	178.41	178.41
RE DISCCART	454300.0	4612700.0	177.68	177.68
RE DISCCART	454400.0	4612700.0	176.14	176.14
RE DISCCART	454500.0	4612700.0	178.19	192.89
RE DISCCART	454600.0	4612700.0	187.71	192.89
RE DISCCART	454700.0	4612700.0	192.76	192.76
RE DISCCART	454800.0	4612700.0	188.65	193.99
RE DISCCART	454900.0	4612700.0	184.34	185.68
RE DISCCART	455000.0	4612700.0	178.37	178.37
RE DISCCART	455100.0	4612700.0	178.19	178.19
RE DISCCART	455200.0	4612700.0	178.36	178.36
RE DISCCART	455300.0	4612700.0	177.63	177.63
RE DISCCART	455400.0	4612700.0	177.59	177.59
RE DISCCART	455500.0	4612700.0	177.59	177.59

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RE DISCCART	455600.0	4612700.0	177.59	177.59
RE DISCCART	455700.0	4612700.0	177.59	177.59
RE DISCCART	455800.0	4612700.0	177.59	177.59
RE DISCCART	455900.0	4612700.0	177.59	177.59
RE DISCCART	456000.0	4612700.0	177.59	177.59
RE DISCCART	456100.0	4612700.0	177.09	177.09
RE DISCCART	456200.0	4612700.0	177.09	177.09
RE DISCCART	456300.0	4612700.0	177.25	177.25
RE DISCCART	456400.0	4612700.0	177.49	177.49
RE DISCCART	456500.0	4612700.0	177.09	177.09
RE DISCCART	456600.0	4612700.0	177.09	177.09
RE DISCCART	452000.0	4612800.0	178.29	178.29
RE DISCCART	452100.0	4612800.0	178.29	178.29
RE DISCCART	452200.0	4612800.0	178.03	178.03
RE DISCCART	452300.0	4612800.0	178.29	178.29
RE DISCCART	452400.0	4612800.0	178.63	178.63
RE DISCCART	452500.0	4612800.0	178.45	178.45
RE DISCCART	452600.0	4612800.0	178.29	178.29
RE DISCCART	452700.0	4612800.0	178.86	178.86
RE DISCCART	452800.0	4612800.0	175.19	178.87
RE DISCCART	452900.0	4612800.0	175.19	175.19
RE DISCCART	453000.0	4612800.0	175.51	178.75
RE DISCCART	453100.0	4612800.0	179.66	179.66
RE DISCCART	453200.0	4612800.0	179.52	179.52
RE DISCCART	453300.0	4612800.0	179.24	179.24
RE DISCCART	453400.0	4612800.0	178.99	178.99
RE DISCCART	453500.0	4612800.0	178.99	178.99
RE DISCCART	453600.0	4612800.0	178.99	178.99
RE DISCCART	453700.0	4612800.0	179.25	179.25
RE DISCCART	453800.0	4612800.0	179.47	179.47
RE DISCCART	453900.0	4612800.0	179.75	179.75
RE DISCCART	454000.0	4612800.0	178.34	178.34
RE DISCCART	454100.0	4612800.0	177.22	177.22
RE DISCCART	454200.0	4612800.0	178.1	178.1
RE DISCCART	454300.0	4612800.0	177.88	177.88
RE DISCCART	454400.0	4612800.0	177.56	177.56
RE DISCCART	454500.0	4612800.0	178.14	178.14
RE DISCCART	454600.0	4612800.0	178.26	193.05
RE DISCCART	454700.0	4612800.0	178.63	193.99
RE DISCCART	454800.0	4612800.0	179.17	193.99
RE DISCCART	454900.0	4612800.0	179.2	179.2
RE DISCCART	455000.0	4612800.0	178.92	178.92
RE DISCCART	455100.0	4612800.0	178.19	178.19
RE DISCCART	455200.0	4612800.0	178.4	178.4
RE DISCCART	455300.0	4612800.0	177.59	177.59
RE DISCCART	455400.0	4612800.0	177.59	177.59
RE DISCCART	455500.0	4612800.0	177.59	177.59
RE DISCCART	455600.0	4612800.0	177.59	177.59

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RE DISCCART	455700.0	4612800.0	177.59	177.59
RE DISCCART	455800.0	4612800.0	177.59	177.59
RE DISCCART	455900.0	4612800.0	177.59	177.59
RE DISCCART	456000.0	4612800.0	177.59	177.59
RE DISCCART	456100.0	4612800.0	177.09	177.09
RE DISCCART	456200.0	4612800.0	177.09	177.09
RE DISCCART	456300.0	4612800.0	177.3	177.3
RE DISCCART	456400.0	4612800.0	177.76	177.76
RE DISCCART	456500.0	4612800.0	177.09	177.09
RE DISCCART	456600.0	4612800.0	177.09	177.09
RE DISCCART	452000.0	4612900.0	178.29	178.29
RE DISCCART	452100.0	4612900.0	178.29	178.29
RE DISCCART	452200.0	4612900.0	176.09	176.09
RE DISCCART	452300.0	4612900.0	177.89	177.89
RE DISCCART	452400.0	4612900.0	178.61	178.61
RE DISCCART	452500.0	4612900.0	178.95	178.95
RE DISCCART	452600.0	4612900.0	179.06	179.06
RE DISCCART	452700.0	4612900.0	179.65	179.65
RE DISCCART	452800.0	4612900.0	179.72	179.72
RE DISCCART	452900.0	4612900.0	175.47	179.73
RE DISCCART	453000.0	4612900.0	178.19	178.94
RE DISCCART	453100.0	4612900.0	175.19	175.19
RE DISCCART	453200.0	4612900.0	175.71	179.62
RE DISCCART	453300.0	4612900.0	179.48	179.48
RE DISCCART	453400.0	4612900.0	178.99	178.99
RE DISCCART	453500.0	4612900.0	178.99	178.99
RE DISCCART	453600.0	4612900.0	178.99	178.99
RE DISCCART	453700.0	4612900.0	179.22	179.22
RE DISCCART	453800.0	4612900.0	179.59	179.59
RE DISCCART	453900.0	4612900.0	178.72	178.72
RE DISCCART	454000.0	4612900.0	178.21	178.21
RE DISCCART	454100.0	4612900.0	177.14	177.14
RE DISCCART	454200.0	4612900.0	178.23	178.23
RE DISCCART	454300.0	4612900.0	178.19	178.19
RE DISCCART	454400.0	4612900.0	178.31	178.31
RE DISCCART	454500.0	4612900.0	178.21	178.21
RE DISCCART	454600.0	4612900.0	178.34	178.34
RE DISCCART	454700.0	4612900.0	179.22	179.22
RE DISCCART	454800.0	4612900.0	180.02	180.02
RE DISCCART	454900.0	4612900.0	180.38	180.38
RE DISCCART	455000.0	4612900.0	180.38	180.38
RE DISCCART	455100.0	4612900.0	178.19	178.19
RE DISCCART	455200.0	4612900.0	178.21	178.21
RE DISCCART	455300.0	4612900.0	177.59	177.59
RE DISCCART	455400.0	4612900.0	177.59	177.59
RE DISCCART	455500.0	4612900.0	177.59	177.59
RE DISCCART	455600.0	4612900.0	177.59	177.59
RE DISCCART	455700.0	4612900.0	177.59	177.59

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RE DISCCART	455800.0	4612900.0	177.59	177.59
RE DISCCART	455900.0	4612900.0	177.86	177.86
RE DISCCART	456000.0	4612900.0	177.59	177.59
RE DISCCART	456100.0	4612900.0	177.09	177.09
RE DISCCART	456200.0	4612900.0	177.09	177.09
RE DISCCART	456300.0	4612900.0	177.22	177.22
RE DISCCART	456400.0	4612900.0	177.09	177.09
RE DISCCART	456500.0	4612900.0	177.09	177.09
RE DISCCART	456600.0	4612900.0	177.09	177.09
RE DISCCART	452000.0	4613000.0	178.29	178.29
RE DISCCART	452100.0	4613000.0	178.29	178.29
RE DISCCART	452200.0	4613000.0	176.09	176.09
RE DISCCART	452300.0	4613000.0	177.92	177.92
RE DISCCART	452400.0	4613000.0	178.88	178.88
RE DISCCART	452500.0	4613000.0	179.22	179.22
RE DISCCART	452600.0	4613000.0	179.66	179.66
RE DISCCART	452700.0	4613000.0	179.69	179.69
RE DISCCART	452800.0	4613000.0	179.69	179.69
RE DISCCART	452900.0	4613000.0	179.69	179.69
RE DISCCART	453000.0	4613000.0	178.45	178.45
RE DISCCART	453100.0	4613000.0	176.93	176.93
RE DISCCART	453200.0	4613000.0	175.19	175.19
RE DISCCART	453300.0	4613000.0	176.43	179.6
RE DISCCART	453400.0	4613000.0	179.04	179.04
RE DISCCART	453500.0	4613000.0	178.99	178.99
RE DISCCART	453600.0	4613000.0	178.99	178.99
RE DISCCART	453700.0	4613000.0	179.33	179.33
RE DISCCART	453800.0	4613000.0	179.76	179.76
RE DISCCART	453900.0	4613000.0	178.57	178.57
RE DISCCART	454000.0	4613000.0	178.35	178.35
RE DISCCART	454100.0	4613000.0	177.29	177.29
RE DISCCART	454200.0	4613000.0	178.21	178.21
RE DISCCART	454300.0	4613000.0	178.37	178.37
RE DISCCART	454400.0	4613000.0	178.77	178.77
RE DISCCART	454500.0	4613000.0	178.2	178.2
RE DISCCART	454600.0	4613000.0	178.31	178.31
RE DISCCART	454700.0	4613000.0	179.07	179.07
RE DISCCART	454800.0	4613000.0	179.61	179.61
RE DISCCART	454900.0	4613000.0	179.86	179.86
RE DISCCART	455000.0	4613000.0	180.28	180.28
RE DISCCART	455100.0	4613000.0	178.19	178.19
RE DISCCART	455200.0	4613000.0	178.19	178.19
RE DISCCART	455300.0	4613000.0	178.45	178.45
RE DISCCART	455400.0	4613000.0	177.59	177.59
RE DISCCART	455500.0	4613000.0	177.59	177.59
RE DISCCART	455600.0	4613000.0	177.59	177.59
RE DISCCART	455700.0	4613000.0	177.59	177.59
RE DISCCART	455800.0	4613000.0	177.59	177.59

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RE DISCCART	455900.0	4613000.0	179.1	179.1
RE DISCCART	456000.0	4613000.0	177.59	177.59
RE DISCCART	456100.0	4613000.0	177.09	177.09
RE DISCCART	456200.0	4613000.0	177.09	177.09
RE DISCCART	456300.0	4613000.0	177.65	177.65
RE DISCCART	456400.0	4613000.0	177.83	177.83
RE DISCCART	456500.0	4613000.0	177.91	177.91
RE DISCCART	456600.0	4613000.0	177.9	177.9
RE DISCCART	452000.0	4613100.0	178.29	178.29
RE DISCCART	452100.0	4613100.0	178.29	178.29
RE DISCCART	452200.0	4613100.0	176.09	176.09
RE DISCCART	452300.0	4613100.0	178.55	178.55
RE DISCCART	452400.0	4613100.0	179.71	179.71
RE DISCCART	452500.0	4613100.0	179.47	179.47
RE DISCCART	452600.0	4613100.0	179.69	179.69
RE DISCCART	452700.0	4613100.0	179.69	179.69
RE DISCCART	452800.0	4613100.0	179.69	179.69
RE DISCCART	452900.0	4613100.0	179.66	179.66
RE DISCCART	453000.0	4613100.0	178.53	178.53
RE DISCCART	453100.0	4613100.0	179.09	179.09
RE DISCCART	453200.0	4613100.0	177.43	177.43
RE DISCCART	453300.0	4613100.0	175.19	175.19
RE DISCCART	453400.0	4613100.0	178.89	183.39
RE DISCCART	453500.0	4613100.0	178.99	178.99
RE DISCCART	453600.0	4613100.0	179.21	179.21
RE DISCCART	453700.0	4613100.0	179.55	179.55
RE DISCCART	453800.0	4613100.0	179.59	179.59
RE DISCCART	453900.0	4613100.0	178.96	178.96
RE DISCCART	454000.0	4613100.0	178.29	178.29
RE DISCCART	454100.0	4613100.0	178.57	178.57
RE DISCCART	454200.0	4613100.0	178.19	178.19
RE DISCCART	454300.0	4613100.0	178.24	189.25
RE DISCCART	454400.0	4613100.0	178.75	178.75
RE DISCCART	454500.0	4613100.0	178.2	178.2
RE DISCCART	454600.0	4613100.0	178.3	178.3
RE DISCCART	454700.0	4613100.0	178.96	178.96
RE DISCCART	454800.0	4613100.0	179.34	179.34
RE DISCCART	454900.0	4613100.0	179.71	179.71
RE DISCCART	455000.0	4613100.0	179.65	179.65
RE DISCCART	455100.0	4613100.0	178.19	178.19
RE DISCCART	455200.0	4613100.0	178.27	178.27
RE DISCCART	455300.0	4613100.0	178.46	178.46
RE DISCCART	455400.0	4613100.0	177.59	177.59
RE DISCCART	455500.0	4613100.0	177.59	177.59
RE DISCCART	455600.0	4613100.0	177.59	177.59
RE DISCCART	455700.0	4613100.0	179.44	179.44
RE DISCCART	455800.0	4613100.0	177.65	177.65
RE DISCCART	455900.0	4613100.0	177.64	177.64

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RE DISCCART	456000.0	4613100.0	177.59	177.59
RE DISCCART	456100.0	4613100.0	177.09	177.09
RE DISCCART	456200.0	4613100.0	177.09	177.09
RE DISCCART	456300.0	4613100.0	177.42	177.42
RE DISCCART	456400.0	4613100.0	177.09	177.09
RE DISCCART	456500.0	4613100.0	177.09	177.09
RE DISCCART	456600.0	4613100.0	177.09	177.09
RE DISCCART	452000.0	4613200.0	178.29	178.29
RE DISCCART	452100.0	4613200.0	178.29	178.29
RE DISCCART	452200.0	4613200.0	176.09	176.09
RE DISCCART	452300.0	4613200.0	178.5	178.5
RE DISCCART	452400.0	4613200.0	179.43	179.43
RE DISCCART	452500.0	4613200.0	179.7	179.7
RE DISCCART	452600.0	4613200.0	179.69	179.69
RE DISCCART	452700.0	4613200.0	179.69	179.69
RE DISCCART	452800.0	4613200.0	179.7	179.7
RE DISCCART	452900.0	4613200.0	179.23	179.23
RE DISCCART	453000.0	4613200.0	178.52	178.52
RE DISCCART	453100.0	4613200.0	179.09	179.09
RE DISCCART	453200.0	4613200.0	179.09	179.09
RE DISCCART	453300.0	4613200.0	177.61	179.09
RE DISCCART	453400.0	4613200.0	175.19	183.84
RE DISCCART	453500.0	4613200.0	175.31	183.84
RE DISCCART	453600.0	4613200.0	179.52	179.52
RE DISCCART	453700.0	4613200.0	178.94	178.94
RE DISCCART	453800.0	4613200.0	179.31	179.31
RE DISCCART	453900.0	4613200.0	178.82	178.82
RE DISCCART	454000.0	4613200.0	178.28	178.28
RE DISCCART	454100.0	4613200.0	179.66	179.66
RE DISCCART	454200.0	4613200.0	178.19	191.48
RE DISCCART	454300.0	4613200.0	186.33	191.48
RE DISCCART	454400.0	4613200.0	183.86	183.86
RE DISCCART	454500.0	4613200.0	178.41	178.41
RE DISCCART	454600.0	4613200.0	178.24	178.24
RE DISCCART	454700.0	4613200.0	179.33	179.33
RE DISCCART	454800.0	4613200.0	180.56	180.56
RE DISCCART	454900.0	4613200.0	179.49	179.49
RE DISCCART	455000.0	4613200.0	178.61	178.61
RE DISCCART	455100.0	4613200.0	178.2	178.2
RE DISCCART	455200.0	4613200.0	178.3	178.3
RE DISCCART	455300.0	4613200.0	178.58	178.58
RE DISCCART	455400.0	4613200.0	178.14	178.14
RE DISCCART	455500.0	4613200.0	177.59	177.59
RE DISCCART	455600.0	4613200.0	177.59	177.59
RE DISCCART	455700.0	4613200.0	177.59	177.59
RE DISCCART	455800.0	4613200.0	177.59	177.59
RE DISCCART	455900.0	4613200.0	177.59	177.59
RE DISCCART	456000.0	4613200.0	178.33	178.33

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RE DISCCART	456100.0	4613200.0	177.09	177.09
RE DISCCART	456200.0	4613200.0	177.09	177.09
RE DISCCART	456300.0	4613200.0	177.4	177.4
RE DISCCART	456400.0	4613200.0	177.09	177.09
RE DISCCART	456500.0	4613200.0	177.09	177.09
RE DISCCART	456600.0	4613200.0	177.09	177.09
RE DISCCART	452000.0	4613300.0	178.29	178.29
RE DISCCART	452100.0	4613300.0	178.29	178.29
RE DISCCART	452200.0	4613300.0	176.09	176.09
RE DISCCART	452300.0	4613300.0	178.57	178.57
RE DISCCART	452400.0	4613300.0	179.64	179.64
RE DISCCART	452500.0	4613300.0	179.72	179.72
RE DISCCART	452600.0	4613300.0	179.69	179.69
RE DISCCART	452700.0	4613300.0	179.68	179.68
RE DISCCART	452800.0	4613300.0	179.37	179.37
RE DISCCART	452900.0	4613300.0	178.92	178.92
RE DISCCART	453000.0	4613300.0	179.63	179.63
RE DISCCART	453100.0	4613300.0	179.09	179.09
RE DISCCART	453200.0	4613300.0	179.09	179.09
RE DISCCART	453300.0	4613300.0	179.09	179.09
RE DISCCART	453400.0	4613300.0	180.54	180.54
RE DISCCART	453500.0	4613300.0	176.44	182.98
RE DISCCART	453600.0	4613300.0	175.19	175.19
RE DISCCART	453700.0	4613300.0	178.89	178.89
RE DISCCART	453800.0	4613300.0	178.51	178.51
RE DISCCART	453900.0	4613300.0	178.67	178.67
RE DISCCART	454000.0	4613300.0	178.17	178.17
RE DISCCART	454100.0	4613300.0	178.61	178.61
RE DISCCART	454200.0	4613300.0	178.19	191.67
RE DISCCART	454300.0	4613300.0	191.01	191.01
RE DISCCART	454400.0	4613300.0	185.06	191.11
RE DISCCART	454500.0	4613300.0	178.57	178.57
RE DISCCART	454600.0	4613300.0	178.21	178.21
RE DISCCART	454700.0	4613300.0	179.35	179.35
RE DISCCART	454800.0	4613300.0	179.96	179.96
RE DISCCART	454900.0	4613300.0	178.57	178.57
RE DISCCART	455000.0	4613300.0	178.19	178.19
RE DISCCART	455100.0	4613300.0	178.19	178.19
RE DISCCART	455200.0	4613300.0	178.4	178.4
RE DISCCART	455300.0	4613300.0	178.62	178.62
RE DISCCART	455400.0	4613300.0	179.12	179.12
RE DISCCART	455500.0	4613300.0	177.59	177.59
RE DISCCART	455600.0	4613300.0	177.59	177.59
RE DISCCART	455700.0	4613300.0	177.59	177.59
RE DISCCART	455800.0	4613300.0	177.59	177.59
RE DISCCART	455900.0	4613300.0	177.59	177.59
RE DISCCART	456000.0	4613300.0	178.25	178.25
RE DISCCART	456100.0	4613300.0	177.09	177.09

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RE DISCCART	456200.0	4613300.0	177.09	177.09
RE DISCCART	456300.0	4613300.0	177.42	177.42
RE DISCCART	456400.0	4613300.0	177.09	177.09
RE DISCCART	456500.0	4613300.0	177.09	177.09
RE DISCCART	456600.0	4613300.0	177.09	181.45
RE DISCCART	452000.0	4613400.0	178.43	178.43
RE DISCCART	452100.0	4613400.0	178.29	178.29
RE DISCCART	452200.0	4613400.0	176.09	176.09
RE DISCCART	452300.0	4613400.0	178.61	178.61
RE DISCCART	452400.0	4613400.0	179.8	179.8
RE DISCCART	452500.0	4613400.0	179.79	179.79
RE DISCCART	452600.0	4613400.0	179.88	179.88
RE DISCCART	452700.0	4613400.0	179.69	179.69
RE DISCCART	452800.0	4613400.0	179.29	179.29
RE DISCCART	452900.0	4613400.0	179.31	179.31
RE DISCCART	453000.0	4613400.0	179.69	179.69
RE DISCCART	453100.0	4613400.0	179.41	179.41
RE DISCCART	453200.0	4613400.0	179.25	179.25
RE DISCCART	453300.0	4613400.0	179.22	179.22
RE DISCCART	453400.0	4613400.0	178.6	178.6
RE DISCCART	453500.0	4613400.0	178.32	178.32
RE DISCCART	453600.0	4613400.0	175.42	175.42
RE DISCCART	453700.0	4613400.0	175.19	175.19
RE DISCCART	453800.0	4613400.0	178.12	178.12
RE DISCCART	453900.0	4613400.0	178.19	178.19
RE DISCCART	454000.0	4613400.0	178.2	178.2
RE DISCCART	454100.0	4613400.0	178.27	178.27
RE DISCCART	454200.0	4613400.0	178.19	190.94
RE DISCCART	454300.0	4613400.0	183.33	191.37
RE DISCCART	454400.0	4613400.0	186.85	188.57
RE DISCCART	454500.0	4613400.0	178.75	189.85
RE DISCCART	454600.0	4613400.0	178.19	178.19
RE DISCCART	454700.0	4613400.0	178.19	178.19
RE DISCCART	454800.0	4613400.0	178.19	178.19
RE DISCCART	454900.0	4613400.0	178.19	178.19
RE DISCCART	455000.0	4613400.0	178.19	178.19
RE DISCCART	455100.0	4613400.0	178.19	178.19
RE DISCCART	455200.0	4613400.0	178.33	178.33
RE DISCCART	455300.0	4613400.0	178.84	178.84
RE DISCCART	455400.0	4613400.0	179.24	179.24
RE DISCCART	455500.0	4613400.0	177.59	177.59
RE DISCCART	455600.0	4613400.0	177.59	177.59
RE DISCCART	455700.0	4613400.0	177.59	177.59
RE DISCCART	455800.0	4613400.0	177.59	177.59
RE DISCCART	455900.0	4613400.0	177.59	177.59
RE DISCCART	456000.0	4613400.0	177.59	177.59
RE DISCCART	456100.0	4613400.0	177.12	177.12
RE DISCCART	456200.0	4613400.0	177.09	177.09

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RE DISCCART	456300.0	4613400.0	177.53	177.53
RE DISCCART	456400.0	4613400.0	177.09	177.09
RE DISCCART	456500.0	4613400.0	177.09	177.09
RE DISCCART	456600.0	4613400.0	179.72	181.72
RE DISCCART	452000.0	4613500.0	178.76	178.76
RE DISCCART	452100.0	4613500.0	178.29	178.29
RE DISCCART	452200.0	4613500.0	176.09	176.09
RE DISCCART	452300.0	4613500.0	178.51	178.51
RE DISCCART	452400.0	4613500.0	179.41	179.41
RE DISCCART	452500.0	4613500.0	179.7	179.7
RE DISCCART	452600.0	4613500.0	179.69	179.69
RE DISCCART	452700.0	4613500.0	179.61	179.61
RE DISCCART	452800.0	4613500.0	179.67	179.67
RE DISCCART	452900.0	4613500.0	179.68	179.68
RE DISCCART	453000.0	4613500.0	179.7	179.7
RE DISCCART	453100.0	4613500.0	179.39	179.39
RE DISCCART	453200.0	4613500.0	179.12	179.12
RE DISCCART	453300.0	4613500.0	178.77	178.77
RE DISCCART	453400.0	4613500.0	178.48	178.48
RE DISCCART	453500.0	4613500.0	178.29	178.29
RE DISCCART	453600.0	4613500.0	178.58	178.58
RE DISCCART	453700.0	4613500.0	176.66	178.79
RE DISCCART	453800.0	4613500.0	175.19	175.19
RE DISCCART	453900.0	4613500.0	175.19	179.57
RE DISCCART	454000.0	4613500.0	178.74	178.74
RE DISCCART	454100.0	4613500.0	178.19	178.19
RE DISCCART	454200.0	4613500.0	178.19	178.19
RE DISCCART	454300.0	4613500.0	179.63	190.05
RE DISCCART	454400.0	4613500.0	179.7	190.05
RE DISCCART	454500.0	4613500.0	178.75	189.85
RE DISCCART	454600.0	4613500.0	178.19	178.19
RE DISCCART	454700.0	4613500.0	178.19	178.19
RE DISCCART	454800.0	4613500.0	178.19	178.19
RE DISCCART	454900.0	4613500.0	178.19	178.19
RE DISCCART	455000.0	4613500.0	178.19	178.19
RE DISCCART	455100.0	4613500.0	178.19	178.19
RE DISCCART	455200.0	4613500.0	178.19	178.19
RE DISCCART	455300.0	4613500.0	178.7	178.7
RE DISCCART	455400.0	4613500.0	179.15	179.15
RE DISCCART	455500.0	4613500.0	177.59	177.59
RE DISCCART	455600.0	4613500.0	177.59	177.59
RE DISCCART	455700.0	4613500.0	177.59	177.59
RE DISCCART	455800.0	4613500.0	177.59	177.59
RE DISCCART	455900.0	4613500.0	177.59	177.59
RE DISCCART	456000.0	4613500.0	177.59	177.59
RE DISCCART	456100.0	4613500.0	177.27	177.27
RE DISCCART	456200.0	4613500.0	177.09	177.09
RE DISCCART	456300.0	4613500.0	177.21	177.21

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RE DISCCART	456400.0	4613500.0	177.09	177.09
RE DISCCART	456500.0	4613500.0	177.09	177.09
RE DISCCART	456600.0	4613500.0	182.03	182.03
RE DISCCART	452000.0	4613600.0	179.18	179.18
RE DISCCART	452100.0	4613600.0	178.34	178.34
RE DISCCART	452200.0	4613600.0	176.09	176.09
RE DISCCART	452300.0	4613600.0	176.35	176.35
RE DISCCART	452400.0	4613600.0	179.65	179.65
RE DISCCART	452500.0	4613600.0	179.75	179.75
RE DISCCART	452600.0	4613600.0	179.66	179.66
RE DISCCART	452700.0	4613600.0	179.94	179.94
RE DISCCART	452800.0	4613600.0	179.84	179.84
RE DISCCART	452900.0	4613600.0	179.69	179.69
RE DISCCART	453000.0	4613600.0	179.93	179.93
RE DISCCART	453100.0	4613600.0	179.42	179.42
RE DISCCART	453200.0	4613600.0	178.51	178.51
RE DISCCART	453300.0	4613600.0	178.49	178.49
RE DISCCART	453400.0	4613600.0	178.56	178.56
RE DISCCART	453500.0	4613600.0	178.29	178.29
RE DISCCART	453600.0	4613600.0	178.72	178.72
RE DISCCART	453700.0	4613600.0	178.61	178.61
RE DISCCART	453800.0	4613600.0	178.4	178.4
RE DISCCART	453900.0	4613600.0	175.19	175.19
RE DISCCART	454000.0	4613600.0	175.19	175.19
RE DISCCART	454100.0	4613600.0	178.19	178.19
RE DISCCART	454200.0	4613600.0	178.19	178.19
RE DISCCART	454300.0	4613600.0	178.34	178.34
RE DISCCART	454400.0	4613600.0	178.64	178.64
RE DISCCART	454500.0	4613600.0	178.2	178.2
RE DISCCART	454600.0	4613600.0	178.19	178.19
RE DISCCART	454700.0	4613600.0	178.19	178.19
RE DISCCART	454800.0	4613600.0	178.19	178.19
RE DISCCART	454900.0	4613600.0	178.19	178.19
RE DISCCART	455000.0	4613600.0	178.19	178.19
RE DISCCART	455100.0	4613600.0	178.19	178.19
RE DISCCART	455200.0	4613600.0	178.19	178.19
RE DISCCART	455300.0	4613600.0	178.39	178.39
RE DISCCART	455400.0	4613600.0	178.92	178.92
RE DISCCART	455500.0	4613600.0	179.5	179.5
RE DISCCART	455600.0	4613600.0	177.66	177.66
RE DISCCART	455700.0	4613600.0	177.59	177.59
RE DISCCART	455800.0	4613600.0	177.59	177.59
RE DISCCART	455900.0	4613600.0	177.59	177.59
RE DISCCART	456000.0	4613600.0	177.59	177.59
RE DISCCART	456100.0	4613600.0	177.12	177.12
RE DISCCART	456200.0	4613600.0	177.09	177.09
RE DISCCART	456300.0	4613600.0	177.1	177.1
RE DISCCART	456400.0	4613600.0	177.09	177.09

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RE DISCCART	456500.0	4613600.0	177.09	177.09
RE DISCCART	456600.0	4613600.0	179.31	182.02
RE DISCCART	452000.0	4613700.0	179.31	179.31
RE DISCCART	452100.0	4613700.0	179.45	179.45
RE DISCCART	452200.0	4613700.0	178.21	196.21
RE DISCCART	452300.0	4613700.0	178.54	195.02
RE DISCCART	452400.0	4613700.0	178.65	178.65
RE DISCCART	452500.0	4613700.0	179.75	179.75
RE DISCCART	452600.0	4613700.0	179.84	179.84
RE DISCCART	452700.0	4613700.0	180.18	180.18
RE DISCCART	452800.0	4613700.0	180.26	180.26
RE DISCCART	452900.0	4613700.0	180.07	180.07
RE DISCCART	453000.0	4613700.0	179.98	179.98
RE DISCCART	453100.0	4613700.0	179.36	179.36
RE DISCCART	453200.0	4613700.0	179.64	179.64
RE DISCCART	453300.0	4613700.0	179.68	179.68
RE DISCCART	453400.0	4613700.0	179.7	179.7
RE DISCCART	453500.0	4613700.0	179.03	179.03
RE DISCCART	453600.0	4613700.0	179.03	179.03
RE DISCCART	453700.0	4613700.0	178.77	178.77
RE DISCCART	453800.0	4613700.0	179.75	179.75
RE DISCCART	453900.0	4613700.0	178.59	178.59
RE DISCCART	454000.0	4613700.0	175.19	175.19
RE DISCCART	454100.0	4613700.0	178.19	178.19
RE DISCCART	454200.0	4613700.0	178.19	178.19
RE DISCCART	454300.0	4613700.0	178.19	178.19
RE DISCCART	454400.0	4613700.0	178.19	178.19
RE DISCCART	454500.0	4613700.0	178.19	178.19
RE DISCCART	454600.0	4613700.0	178.19	178.19
RE DISCCART	454700.0	4613700.0	178.19	178.19
RE DISCCART	454800.0	4613700.0	178.19	178.19
RE DISCCART	454900.0	4613700.0	178.19	178.19
RE DISCCART	455000.0	4613700.0	178.19	178.19
RE DISCCART	455100.0	4613700.0	178.19	178.19
RE DISCCART	455200.0	4613700.0	178.19	178.19
RE DISCCART	455300.0	4613700.0	178.19	178.19
RE DISCCART	455400.0	4613700.0	178.44	178.44
RE DISCCART	455500.0	4613700.0	178.92	178.92
RE DISCCART	455600.0	4613700.0	179.76	179.76
RE DISCCART	455700.0	4613700.0	177.59	177.59
RE DISCCART	455800.0	4613700.0	177.59	177.59
RE DISCCART	455900.0	4613700.0	177.59	177.59
RE DISCCART	456000.0	4613700.0	177.59	177.59
RE DISCCART	456100.0	4613700.0	177.13	177.13
RE DISCCART	456200.0	4613700.0	177.47	177.47
RE DISCCART	456300.0	4613700.0	178.48	178.48
RE DISCCART	456400.0	4613700.0	178.39	178.39
RE DISCCART	456500.0	4613700.0	177.26	177.26

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RE DISCCART	456600.0	4613700.0	178.33	178.33
RE DISCCART	452000.0	4613800.0	179.24	179.24
RE DISCCART	452100.0	4613800.0	179.59	197.62
RE DISCCART	452200.0	4613800.0	192.68	193.46
RE DISCCART	452300.0	4613800.0	182.29	197.62
RE DISCCART	452400.0	4613800.0	178.75	196.34
RE DISCCART	452500.0	4613800.0	179.83	179.83
RE DISCCART	452600.0	4613800.0	180.3	180.3
RE DISCCART	452700.0	4613800.0	180.72	180.72
RE DISCCART	452800.0	4613800.0	180.77	180.77
RE DISCCART	452900.0	4613800.0	180.42	180.42
RE DISCCART	453000.0	4613800.0	180.01	180.01
RE DISCCART	453100.0	4613800.0	179.43	179.43
RE DISCCART	453200.0	4613800.0	179.38	179.38
RE DISCCART	453300.0	4613800.0	179.37	179.37
RE DISCCART	453400.0	4613800.0	178.75	178.75
RE DISCCART	453500.0	4613800.0	179.08	179.08
RE DISCCART	453600.0	4613800.0	179.26	179.26
RE DISCCART	453700.0	4613800.0	179.01	179.01
RE DISCCART	453800.0	4613800.0	179.73	179.73
RE DISCCART	453900.0	4613800.0	180.57	180.57
RE DISCCART	454000.0	4613800.0	175.19	180.07
RE DISCCART	454100.0	4613800.0	175.19	179.63
RE DISCCART	454200.0	4613800.0	177.78	177.78
RE DISCCART	454300.0	4613800.0	178.19	178.19
RE DISCCART	454400.0	4613800.0	178.19	178.19
RE DISCCART	454500.0	4613800.0	178.19	178.19
RE DISCCART	454600.0	4613800.0	178.19	178.19
RE DISCCART	454700.0	4613800.0	178.19	178.19
RE DISCCART	454800.0	4613800.0	178.19	178.19
RE DISCCART	454900.0	4613800.0	178.19	178.19
RE DISCCART	455000.0	4613800.0	178.19	178.19
RE DISCCART	455100.0	4613800.0	178.19	178.19
RE DISCCART	455200.0	4613800.0	178.19	178.19
RE DISCCART	455300.0	4613800.0	178.19	178.19
RE DISCCART	455400.0	4613800.0	178.19	178.19
RE DISCCART	455500.0	4613800.0	178.75	178.75
RE DISCCART	455600.0	4613800.0	180.1	180.1
RE DISCCART	455700.0	4613800.0	178.83	180.77
RE DISCCART	455800.0	4613800.0	179.49	181.08
RE DISCCART	455900.0	4613800.0	179.64	181.13
RE DISCCART	456000.0	4613800.0	178.72	178.72
RE DISCCART	456100.0	4613800.0	177.15	177.15
RE DISCCART	456200.0	4613800.0	178.34	178.34
RE DISCCART	456300.0	4613800.0	178.72	178.72
RE DISCCART	456400.0	4613800.0	177.97	177.97
RE DISCCART	456500.0	4613800.0	177.89	181.4
RE DISCCART	456600.0	4613800.0	178.99	178.99

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RE DISCCART	452000.0	4613900.0	179.25	179.25
RE DISCCART	452100.0	4613900.0	179.59	198.85
RE DISCCART	452200.0	4613900.0	196.69	196.69
RE DISCCART	452300.0	4613900.0	191.98	196.34
RE DISCCART	452400.0	4613900.0	179.12	198.85
RE DISCCART	452500.0	4613900.0	179.92	179.92
RE DISCCART	452600.0	4613900.0	180.6	180.6
RE DISCCART	452700.0	4613900.0	183.05	183.05
RE DISCCART	452800.0	4613900.0	181.06	181.06
RE DISCCART	452900.0	4613900.0	180.64	180.64
RE DISCCART	453000.0	4613900.0	179.97	179.97
RE DISCCART	453100.0	4613900.0	178.84	178.84
RE DISCCART	453200.0	4613900.0	179.13	179.13
RE DISCCART	453300.0	4613900.0	179.09	179.09
RE DISCCART	453400.0	4613900.0	178.54	178.54
RE DISCCART	453500.0	4613900.0	179.84	179.84
RE DISCCART	453600.0	4613900.0	179.39	179.39
RE DISCCART	453700.0	4613900.0	179.23	179.23
RE DISCCART	453800.0	4613900.0	179.7	179.7
RE DISCCART	453900.0	4613900.0	179.51	179.51
RE DISCCART	454000.0	4613900.0	175.19	179.27
RE DISCCART	454100.0	4613900.0	175.19	175.19
RE DISCCART	454200.0	4613900.0	175.19	175.19
RE DISCCART	454300.0	4613900.0	178.19	178.19
RE DISCCART	454400.0	4613900.0	178.19	178.19
RE DISCCART	454500.0	4613900.0	178.19	178.19
RE DISCCART	454600.0	4613900.0	178.19	178.19
RE DISCCART	454700.0	4613900.0	178.19	178.19
RE DISCCART	454800.0	4613900.0	178.19	178.19
RE DISCCART	454900.0	4613900.0	178.19	178.19
RE DISCCART	455000.0	4613900.0	178.19	178.19
RE DISCCART	455100.0	4613900.0	178.19	178.19
RE DISCCART	455200.0	4613900.0	178.19	178.19
RE DISCCART	455300.0	4613900.0	178.19	178.19
RE DISCCART	455400.0	4613900.0	178.2	178.2
RE DISCCART	455500.0	4613900.0	178.38	178.38
RE DISCCART	455600.0	4613900.0	179.68	179.68
RE DISCCART	455700.0	4613900.0	181.27	181.27
RE DISCCART	455800.0	4613900.0	181.27	181.27
RE DISCCART	455900.0	4613900.0	181.27	181.27
RE DISCCART	456000.0	4613900.0	181.27	181.27
RE DISCCART	456100.0	4613900.0	180.2	180.2
RE DISCCART	456200.0	4613900.0	178.78	178.78
RE DISCCART	456300.0	4613900.0	178.37	178.37
RE DISCCART	456400.0	4613900.0	177.99	177.99
RE DISCCART	456500.0	4613900.0	181.15	181.15
RE DISCCART	456600.0	4613900.0	178.66	178.66
RE DISCCART	452000.0	4614000.0	179.2	179.2

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RE DISCCART	452100.0	4614000.0	179.63	198.85
RE DISCCART	452200.0	4614000.0	196.94	196.94
RE DISCCART	452300.0	4614000.0	194.23	198.85
RE DISCCART	452400.0	4614000.0	179.09	198.85
RE DISCCART	452500.0	4614000.0	180.1	180.1
RE DISCCART	452600.0	4614000.0	180.84	180.84
RE DISCCART	452700.0	4614000.0	182.49	182.49
RE DISCCART	452800.0	4614000.0	181.47	181.47
RE DISCCART	452900.0	4614000.0	180.99	180.99
RE DISCCART	453000.0	4614000.0	180.16	180.16
RE DISCCART	453100.0	4614000.0	178.4	178.4
RE DISCCART	453200.0	4614000.0	179.05	179.05
RE DISCCART	453300.0	4614000.0	178.92	178.92
RE DISCCART	453400.0	4614000.0	178.47	178.47
RE DISCCART	453500.0	4614000.0	179.84	179.84
RE DISCCART	453600.0	4614000.0	179.44	179.44
RE DISCCART	453700.0	4614000.0	179.24	179.24
RE DISCCART	453800.0	4614000.0	179.72	179.72
RE DISCCART	453900.0	4614000.0	179.09	179.09
RE DISCCART	454000.0	4614000.0	175.29	179.09
RE DISCCART	454100.0	4614000.0	175.33	175.33
RE DISCCART	454200.0	4614000.0	178.28	178.28
RE DISCCART	454300.0	4614000.0	178.19	178.19
RE DISCCART	454400.0	4614000.0	178.19	178.19
RE DISCCART	454500.0	4614000.0	178.19	178.19
RE DISCCART	454600.0	4614000.0	178.19	178.19
RE DISCCART	454700.0	4614000.0	178.19	178.19
RE DISCCART	454800.0	4614000.0	178.19	178.19
RE DISCCART	454900.0	4614000.0	178.19	178.19
RE DISCCART	455000.0	4614000.0	178.19	178.19
RE DISCCART	455100.0	4614000.0	178.19	178.19
RE DISCCART	455200.0	4614000.0	178.19	178.19
RE DISCCART	455300.0	4614000.0	178.19	178.19
RE DISCCART	455400.0	4614000.0	178.19	178.19
RE DISCCART	455500.0	4614000.0	178.89	178.89
RE DISCCART	455600.0	4614000.0	180.23	180.23
RE DISCCART	455700.0	4614000.0	181.25	181.25
RE DISCCART	455800.0	4614000.0	181.47	181.47
RE DISCCART	455900.0	4614000.0	181.39	181.39
RE DISCCART	456000.0	4614000.0	181.38	181.38
RE DISCCART	456100.0	4614000.0	181.32	181.32
RE DISCCART	456200.0	4614000.0	180.69	180.69
RE DISCCART	456300.0	4614000.0	178.43	178.43
RE DISCCART	456400.0	4614000.0	178.32	178.32
RE DISCCART	456500.0	4614000.0	182.4	182.4
RE DISCCART	456600.0	4614000.0	178.72	178.72
RE DISCCART	452000.0	4614100.0	179.07	179.07
RE DISCCART	452100.0	4614100.0	179.58	198.84

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RE DISCCART	452200.0	4614100.0	197.09	197.09
RE DISCCART	452300.0	4614100.0	195.23	198.22
RE DISCCART	452400.0	4614100.0	179.09	198.85
RE DISCCART	452500.0	4614100.0	180.38	180.38
RE DISCCART	452600.0	4614100.0	181.7	181.7
RE DISCCART	452700.0	4614100.0	180.89	180.89
RE DISCCART	452800.0	4614100.0	180.99	180.99
RE DISCCART	452900.0	4614100.0	182.92	182.92
RE DISCCART	453000.0	4614100.0	180.41	180.41
RE DISCCART	453100.0	4614100.0	178.33	178.33
RE DISCCART	453200.0	4614100.0	178.88	178.88
RE DISCCART	453300.0	4614100.0	178.83	178.83
RE DISCCART	453400.0	4614100.0	178.47	178.47
RE DISCCART	453500.0	4614100.0	179.73	179.73
RE DISCCART	453600.0	4614100.0	179.39	179.39
RE DISCCART	453700.0	4614100.0	179.04	179.04
RE DISCCART	453800.0	4614100.0	179.72	179.72
RE DISCCART	453900.0	4614100.0	179.09	179.09
RE DISCCART	454000.0	4614100.0	175.19	175.19
RE DISCCART	454100.0	4614100.0	178.19	178.19
RE DISCCART	454200.0	4614100.0	178.19	178.19
RE DISCCART	454300.0	4614100.0	178.19	178.19
RE DISCCART	454400.0	4614100.0	178.19	178.19
RE DISCCART	454500.0	4614100.0	178.19	178.19
RE DISCCART	454600.0	4614100.0	178.19	178.19
RE DISCCART	454700.0	4614100.0	178.19	178.19
RE DISCCART	454800.0	4614100.0	178.19	178.19
RE DISCCART	454900.0	4614100.0	178.19	178.19
RE DISCCART	455000.0	4614100.0	178.19	178.19
RE DISCCART	455100.0	4614100.0	178.19	178.19
RE DISCCART	455200.0	4614100.0	178.19	178.19
RE DISCCART	455300.0	4614100.0	178.19	178.19
RE DISCCART	455400.0	4614100.0	178.19	178.19
RE DISCCART	455500.0	4614100.0	178.19	178.19
RE DISCCART	455600.0	4614100.0	179.6	179.6
RE DISCCART	455700.0	4614100.0	180.56	180.56
RE DISCCART	455800.0	4614100.0	181.09	181.09
RE DISCCART	455900.0	4614100.0	181.05	181.05
RE DISCCART	456000.0	4614100.0	181.04	181.04
RE DISCCART	456100.0	4614100.0	181.04	181.04
RE DISCCART	456200.0	4614100.0	180.17	180.17
RE DISCCART	456300.0	4614100.0	178.77	178.77
RE DISCCART	456400.0	4614100.0	178.5	178.5
RE DISCCART	456500.0	4614100.0	184.04	184.04
RE DISCCART	456600.0	4614100.0	179.04	179.04
RE DISCCART	452000.0	4614200.0	178.93	178.93
RE DISCCART	452100.0	4614200.0	179.54	198.06
RE DISCCART	452200.0	4614200.0	197.13	197.13

Phosphorus_2012_OTHER.DTA

RE DISCCART	452300.0	4614200.0	190.9	197.91
RE DISCCART	452400.0	4614200.0	179.36	198.45
RE DISCCART	452500.0	4614200.0	183.24	183.24
RE DISCCART	452600.0	4614200.0	181.18	181.18
RE DISCCART	452700.0	4614200.0	180.83	180.83
RE DISCCART	452800.0	4614200.0	180.61	180.61
RE DISCCART	452900.0	4614200.0	180.79	180.79
RE DISCCART	453000.0	4614200.0	180.07	180.07
RE DISCCART	453100.0	4614200.0	178.31	178.31
RE DISCCART	453200.0	4614200.0	178.73	178.73
RE DISCCART	453300.0	4614200.0	178.8	178.8
RE DISCCART	453400.0	4614200.0	178.39	178.39
RE DISCCART	453500.0	4614200.0	179.6	179.6
RE DISCCART	453600.0	4614200.0	178.69	178.69
RE DISCCART	453700.0	4614200.0	179.02	179.02
RE DISCCART	453800.0	4614200.0	179.71	179.71
RE DISCCART	453900.0	4614200.0	179.09	179.09
RE DISCCART	454000.0	4614200.0	175.42	178.
RE DISCCART	454300.0	4614200.0	178.19	178.19
RE DISCCART	454400.0	4614200.0	178.19	178.19
RE DISCCART	454500.0	4614200.0	178.19	178.19
RE DISCCART	454600.0	4614200.0	178.19	178.19
RE DISCCART	454700.0	4614200.0	178.19	178.19
RE DISCCART	454800.0	4614200.0	178.19	178.19
RE DISCCART	454900.0	4614200.0	178.19	178.19
RE DISCCART	455000.0	4614200.0	178.19	178.19
RE DISCCART	455100.0	4614200.0	178.19	178.19
RE DISCCART	455200.0	4614200.0	178.19	178.19
RE DISCCART	455300.0	4614200.0	178.19	178.19
RE DISCCART	455400.0	4614200.0	178.19	178.19
RE DISCCART	455500.0	4614200.0	178.19	178.19
RE DISCCART	455600.0	4614200.0	178.63	178.63
RE DISCCART	455700.0	4614200.0	179.95	179.95
RE DISCCART	455800.0	4614200.0	180.45	180.45
RE DISCCART	455900.0	4614200.0	180.74	180.74
RE DISCCART	456000.0	4614200.0	180.81	180.81
RE DISCCART	456100.0	4614200.0	180.77	180.77
RE DISCCART	456200.0	4614200.0	179.77	179.77
RE DISCCART	456300.0	4614200.0	179.16	179.16
RE DISCCART	456400.0	4614200.0	178.38	178.38
RE DISCCART	456500.0	4614200.0	185.68	185.68
RE DISCCART	456600.0	4614200.0	178.92	178.92
RE DISCCART	452000.0	4614300.0	178.79	178.79
RE DISCCART	452100.0	4614300.0	179.54	198.44
RE DISCCART	452200.0	4614300.0	196.96	196.96
RE DISCCART	452300.0	4614300.0	195.32	197.99
RE DISCCART	452400.0	4614300.0	179.88	207.67
RE DISCCART	452500.0	4614300.0	180.64	180.64

Phosphorus_2012_OTHER.DTA

RE DISCCART	452600.0	4614300.0	181.19	181.19
RE DISCCART	452700.0	4614300.0	180.86	180.86
RE DISCCART	452800.0	4614300.0	180.67	180.67
RE DISCCART	452900.0	4614300.0	180.33	180.33
RE DISCCART	453000.0	4614300.0	179.92	179.92
RE DISCCART	453100.0	4614300.0	178.28	178.28
RE DISCCART	453200.0	4614300.0	178.62	178.62
RE DISCCART	453300.0	4614300.0	178.72	178.72
RE DISCCART	453400.0	4614300.0	178.4	178.4
RE DISCCART	453500.0	4614300.0	179.56	179.56
RE DISCCART	453600.0	4614300.0	178.57	178.57
RE DISCCART	453700.0	4614300.0	179.36	179.36
RE DISCCART	453800.0	4614300.0	179.09	179.09
RE DISCCART	453900.0	4614300.0	179.09	179.09
RE DISCCART	454000.0	4614300.0	175.57	179.43
RE DISCCART	454400.0	4614300.0	178.19	178.19
RE DISCCART	454500.0	4614300.0	178.19	178.19
RE DISCCART	454600.0	4614300.0	178.19	178.19
RE DISCCART	454700.0	4614300.0	178.19	178.19
RE DISCCART	454800.0	4614300.0	178.19	178.19
RE DISCCART	454900.0	4614300.0	178.19	178.19
RE DISCCART	455000.0	4614300.0	178.19	178.19
RE DISCCART	455100.0	4614300.0	178.19	178.19
RE DISCCART	455200.0	4614300.0	178.19	178.19
RE DISCCART	455300.0	4614300.0	178.19	178.19
RE DISCCART	455400.0	4614300.0	178.19	178.19
RE DISCCART	455500.0	4614300.0	178.19	178.19
RE DISCCART	455600.0	4614300.0	178.2	178.2
RE DISCCART	455700.0	4614300.0	179.16	179.16
RE DISCCART	455800.0	4614300.0	180.06	180.06
RE DISCCART	455900.0	4614300.0	180.42	180.42
RE DISCCART	456000.0	4614300.0	180.52	180.52
RE DISCCART	456100.0	4614300.0	180.76	180.76
RE DISCCART	456200.0	4614300.0	180.53	180.53
RE DISCCART	456300.0	4614300.0	179.71	179.71
RE DISCCART	456400.0	4614300.0	178.79	178.79
RE DISCCART	456500.0	4614300.0	186.67	186.67
RE DISCCART	456600.0	4614300.0	178.51	178.51
RE DISCCART	452000.0	4614400.0	178.88	178.88
RE DISCCART	452100.0	4614400.0	179.64	209.4
RE DISCCART	452200.0	4614400.0	189.91	197.97
RE DISCCART	452300.0	4614400.0	182.14	209.86
RE DISCCART	452400.0	4614400.0	180.84	209.89
RE DISCCART	452500.0	4614400.0	181.52	209.73
RE DISCCART	452600.0	4614400.0	182.58	209.73
RE DISCCART	452700.0	4614400.0	183.21	207.94
RE DISCCART	452800.0	4614400.0	180.86	180.86
RE DISCCART	452900.0	4614400.0	180.43	180.43

Phosphorus_2012_OTHER.DTA

RE DISCCART	453000.0	4614400.0	179.93	179.93
RE DISCCART	453100.0	4614400.0	178.28	178.28
RE DISCCART	453200.0	4614400.0	178.57	178.57
RE DISCCART	453300.0	4614400.0	178.59	178.59
RE DISCCART	453400.0	4614400.0	178.36	178.36
RE DISCCART	453500.0	4614400.0	179.53	179.53
RE DISCCART	453600.0	4614400.0	178.42	178.42
RE DISCCART	453700.0	4614400.0	178.26	178.26
RE DISCCART	453800.0	4614400.0	179.25	179.25
RE DISCCART	453900.0	4614400.0	179.09	179.09
RE DISCCART	454000.0	4614400.0	175.74	179.36
RE DISCCART	454100.0	4614400.0	176.57	176.57
RE DISCCART	454600.0	4614400.0	178.19	178.19
RE DISCCART	454700.0	4614400.0	178.19	178.19
RE DISCCART	454800.0	4614400.0	178.19	178.19
RE DISCCART	454900.0	4614400.0	178.19	178.19
RE DISCCART	455000.0	4614400.0	178.19	178.19
RE DISCCART	455100.0	4614400.0	178.19	178.19
RE DISCCART	455200.0	4614400.0	178.19	178.19
RE DISCCART	455300.0	4614400.0	178.19	178.19
RE DISCCART	455400.0	4614400.0	178.19	178.19
RE DISCCART	455500.0	4614400.0	178.19	178.19
RE DISCCART	455600.0	4614400.0	178.19	178.19
RE DISCCART	455700.0	4614400.0	178.49	178.49
RE DISCCART	455800.0	4614400.0	179.75	179.75
RE DISCCART	455900.0	4614400.0	179.98	179.98
RE DISCCART	456000.0	4614400.0	180.08	180.08
RE DISCCART	456100.0	4614400.0	180.33	180.33
RE DISCCART	456200.0	4614400.0	180.14	180.14
RE DISCCART	456300.0	4614400.0	180.1	180.1
RE DISCCART	456400.0	4614400.0	179.18	179.18
RE DISCCART	456500.0	4614400.0	183.97	187.29
RE DISCCART	456600.0	4614400.0	178.1	187.29
RE DISCCART	452000.0	4614500.0	178.92	209.34
RE DISCCART	452100.0	4614500.0	179.63	209.73
RE DISCCART	452200.0	4614500.0	181.94	209.9
RE DISCCART	452300.0	4614500.0	184.57	209.9
RE DISCCART	452400.0	4614500.0	185.99	209.9
RE DISCCART	452500.0	4614500.0	186.21	209.89
RE DISCCART	452600.0	4614500.0	187.94	209.73
RE DISCCART	452700.0	4614500.0	183.09	209.73
RE DISCCART	452800.0	4614500.0	181.1	207.94
RE DISCCART	452900.0	4614500.0	180.76	180.76
RE DISCCART	453000.0	4614500.0	179.97	179.97
RE DISCCART	453100.0	4614500.0	177.09	177.09
RE DISCCART	453200.0	4614500.0	178.51	178.51
RE DISCCART	453300.0	4614500.0	178.6	178.6
RE DISCCART	453400.0	4614500.0	178.4	178.4

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RE DISCCART 453500.0 4614500.0 178.3 178.3
RE DISCCART 453600.0 4614500.0 178.45 178.45
RE DISCCART 453700.0 4614500.0 178.29 178.29
RE DISCCART 453800.0 4614500.0 178.72 178.72
RE DISCCART 453900.0 4614500.0 179. 179.
RE DISCCART 454000.0 4614500.0 175.88 179.42
RE DISCCART 454100.0 4614500.0 175.68 178.19
RE DISCCART 454600.0 4614500.0 178.19 178.19
RE DISCCART 454700.0 4614500.0 178.19 178.19
RE DISCCART 454800.0 4614500.0 178.19 178.19
RE DISCCART 454900.0 4614500.0 178.19 178.19
RE DISCCART 455000.0 4614500.0 178.19 178.19
RE DISCCART 455100.0 4614500.0 178.19 178.19
RE DISCCART 455200.0 4614500.0 178.19 178.19
RE DISCCART 455300.0 4614500.0 178.19 178.19
RE DISCCART 455400.0 4614500.0 178.19 178.19
RE DISCCART 455500.0 4614500.0 178.19 178.19
RE DISCCART 455600.0 4614500.0 178.19 178.19
RE DISCCART 455700.0 4614500.0 178.19 178.19
RE DISCCART 455800.0 4614500.0 178.31 178.31
RE DISCCART 455900.0 4614500.0 178.95 178.95
RE DISCCART 456000.0 4614500.0 178.19 178.19
RE DISCCART 456100.0 4614500.0 177.84 177.84
RE DISCCART 456200.0 4614500.0 177.96 177.96
RE DISCCART 456300.0 4614500.0 177.94 177.94
RE DISCCART 456400.0 4614500.0 179.71 179.71
RE DISCCART 456500.0 4614500.0 178.56 186.45
RE DISCCART 456600.0 4614500.0 178.36 178.36
RE DISCCART 452000.0 4614600.0 178.9 209.55
RE DISCCART 452100.0 4614600.0 180.26 209.9
RE DISCCART 452200.0 4614600.0 203.8 208.92
RE DISCCART 452300.0 4614600.0 208.72 208.72
RE DISCCART 452400.0 4614600.0 209.12 209.12
RE DISCCART 452500.0 4614600.0 209.2 209.2
RE DISCCART 452600.0 4614600.0 196.42 209.73
RE DISCCART 452700.0 4614600.0 183.46 209.73
RE DISCCART 452800.0 4614600.0 182.18 207.94
RE DISCCART 452900.0 4614600.0 181.41 181.41
RE DISCCART 453000.0 4614600.0 180.16 180.16
RE DISCCART 453100.0 4614600.0 177.17 177.17
RE DISCCART 453200.0 4614600.0 177.04 177.04
RE DISCCART 453300.0 4614600.0 178.49 178.49
RE DISCCART 453400.0 4614600.0 178.39 178.39
RE DISCCART 453500.0 4614600.0 178.29 178.29
RE DISCCART 453600.0 4614600.0 178.33 178.33
RE DISCCART 453700.0 4614600.0 178.35 178.35
RE DISCCART 453800.0 4614600.0 178.61 178.61
RE DISCCART 453900.0 4614600.0 178.92 178.92

Phosphorus_2012_OTHER.DTA

RE DISCCART	454000.0	4614600.0	175.99	179.37
RE DISCCART	454100.0	4614600.0	175.6	178.19
RE DISCCART	454600.0	4614600.0	178.19	178.19
RE DISCCART	454700.0	4614600.0	178.19	178.19
RE DISCCART	454800.0	4614600.0	178.19	178.19
RE DISCCART	454900.0	4614600.0	178.19	178.19
RE DISCCART	455000.0	4614600.0	178.19	178.19
RE DISCCART	455100.0	4614600.0	178.19	178.19
RE DISCCART	455200.0	4614600.0	178.19	178.19
RE DISCCART	455300.0	4614600.0	178.19	178.19
RE DISCCART	455400.0	4614600.0	178.19	178.19
RE DISCCART	455500.0	4614600.0	178.19	178.19
RE DISCCART	455600.0	4614600.0	178.19	178.19
RE DISCCART	455700.0	4614600.0	178.19	178.19
RE DISCCART	455800.0	4614600.0	178.19	178.19
RE DISCCART	455900.0	4614600.0	178.69	178.69
RE DISCCART	456000.0	4614600.0	178.19	178.19
RE DISCCART	456100.0	4614600.0	177.59	177.59
RE DISCCART	456200.0	4614600.0	177.82	177.82
RE DISCCART	456300.0	4614600.0	178.03	178.03
RE DISCCART	456400.0	4614600.0	180.27	180.27
RE DISCCART	456500.0	4614600.0	182.16	184.29
RE DISCCART	456600.0	4614600.0	178.17	178.17
RE DISCCART	452000.0	4614700.0	178.61	209.55
RE DISCCART	452100.0	4614700.0	182.05	209.9
RE DISCCART	452200.0	4614700.0	204.96	205.33
RE DISCCART	452300.0	4614700.0	209.03	209.03
RE DISCCART	452400.0	4614700.0	209.72	209.72
RE DISCCART	452500.0	4614700.0	206.37	206.67
RE DISCCART	452600.0	4614700.0	189.84	209.73
RE DISCCART	452700.0	4614700.0	181.74	209.73
RE DISCCART	452800.0	4614700.0	181.84	181.84
RE DISCCART	452900.0	4614700.0	179.74	179.74
RE DISCCART	453000.0	4614700.0	179.51	179.51
RE DISCCART	453100.0	4614700.0	177.25	177.25
RE DISCCART	453200.0	4614700.0	178.39	178.39
RE DISCCART	453300.0	4614700.0	178.39	178.39
RE DISCCART	453400.0	4614700.0	178.29	178.29
RE DISCCART	453500.0	4614700.0	178.29	178.29
RE DISCCART	453600.0	4614700.0	178.29	178.29
RE DISCCART	453700.0	4614700.0	178.49	178.49
RE DISCCART	453800.0	4614700.0	178.54	178.54
RE DISCCART	453900.0	4614700.0	178.7	178.7
RE DISCCART	454000.0	4614700.0	175.65	175.65
RE DISCCART	454100.0	4614700.0	178.51	178.51
RE DISCCART	454600.0	4614700.0	178.19	178.19
RE DISCCART	454700.0	4614700.0	178.19	178.19
RE DISCCART	454800.0	4614700.0	178.19	178.19

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RE DISCCART	454900.0	4614700.0	178.19	178.19
RE DISCCART	455000.0	4614700.0	178.19	178.19
RE DISCCART	455100.0	4614700.0	178.19	178.19
RE DISCCART	455200.0	4614700.0	178.19	178.19
RE DISCCART	455300.0	4614700.0	178.19	178.19
RE DISCCART	455400.0	4614700.0	178.19	178.19
RE DISCCART	455500.0	4614700.0	178.19	178.19
RE DISCCART	455600.0	4614700.0	178.19	178.19
RE DISCCART	455700.0	4614700.0	178.19	178.19
RE DISCCART	455800.0	4614700.0	178.19	178.19
RE DISCCART	455900.0	4614700.0	178.26	178.26
RE DISCCART	456000.0	4614700.0	178.19	178.19
RE DISCCART	456100.0	4614700.0	177.49	177.49
RE DISCCART	456200.0	4614700.0	177.74	177.74
RE DISCCART	456300.0	4614700.0	177.8	177.8
RE DISCCART	456400.0	4614700.0	180.18	180.18
RE DISCCART	456500.0	4614700.0	181.96	186.77
RE DISCCART	456600.0	4614700.0	178.38	186.77
RE DISCCART	452000.0	4614800.0	178.29	208.98
RE DISCCART	452100.0	4614800.0	180.94	209.9
RE DISCCART	452200.0	4614800.0	183.21	209.9
RE DISCCART	452300.0	4614800.0	200.55	209.75
RE DISCCART	452400.0	4614800.0	201.	209.89
RE DISCCART	452500.0	4614800.0	200.47	206.65
RE DISCCART	452600.0	4614800.0	187.78	209.75
RE DISCCART	452700.0	4614800.0	179.32	209.75
RE DISCCART	452800.0	4614800.0	183.44	183.44
RE DISCCART	452900.0	4614800.0	180.	180.
RE DISCCART	453000.0	4614800.0	178.29	178.29
RE DISCCART	453100.0	4614800.0	178.3	178.3
RE DISCCART	453200.0	4614800.0	178.29	178.29
RE DISCCART	453300.0	4614800.0	178.29	178.29
RE DISCCART	453400.0	4614800.0	178.29	178.29
RE DISCCART	453500.0	4614800.0	178.29	178.29
RE DISCCART	453600.0	4614800.0	178.29	178.29
RE DISCCART	453700.0	4614800.0	178.48	178.48
RE DISCCART	453800.0	4614800.0	178.49	178.49
RE DISCCART	453900.0	4614800.0	178.71	178.71
RE DISCCART	454000.0	4614800.0	175.37	175.37
RE DISCCART	454600.0	4614800.0	178.19	178.19
RE DISCCART	454700.0	4614800.0	178.19	178.19
RE DISCCART	454800.0	4614800.0	178.19	178.19
RE DISCCART	454900.0	4614800.0	178.19	178.19
RE DISCCART	455000.0	4614800.0	178.19	178.19
RE DISCCART	455100.0	4614800.0	178.19	178.19
RE DISCCART	455200.0	4614800.0	178.19	178.19
RE DISCCART	455300.0	4614800.0	178.19	178.19
RE DISCCART	455400.0	4614800.0	178.19	178.19

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RE DISCCART	455500.0	4614800.0	178.19	178.19
RE DISCCART	455600.0	4614800.0	178.19	178.19
RE DISCCART	455700.0	4614800.0	178.19	178.19
RE DISCCART	455800.0	4614800.0	178.19	178.19
RE DISCCART	455900.0	4614800.0	178.19	178.19
RE DISCCART	456000.0	4614800.0	178.23	178.23
RE DISCCART	456100.0	4614800.0	177.61	177.61
RE DISCCART	456200.0	4614800.0	177.43	177.43
RE DISCCART	456300.0	4614800.0	177.7	177.7
RE DISCCART	456400.0	4614800.0	180.12	180.12
RE DISCCART	456500.0	4614800.0	180.3	186.14
RE DISCCART	456600.0	4614800.0	178.78	186.03
RE DISCCART	452000.0	4614900.0	178.29	178.29
RE DISCCART	452100.0	4614900.0	178.31	209.84
RE DISCCART	452200.0	4614900.0	178.29	209.9
RE DISCCART	452300.0	4614900.0	178.3	209.9
RE DISCCART	452400.0	4614900.0	178.35	209.9
RE DISCCART	452500.0	4614900.0	178.44	209.9
RE DISCCART	452600.0	4614900.0	178.52	209.9
RE DISCCART	452700.0	4614900.0	178.29	206.67
RE DISCCART	452800.0	4614900.0	178.3	178.3
RE DISCCART	452900.0	4614900.0	178.32	178.32
RE DISCCART	453000.0	4614900.0	178.29	178.29
RE DISCCART	453100.0	4614900.0	178.29	178.29
RE DISCCART	453200.0	4614900.0	178.29	178.29
RE DISCCART	453300.0	4614900.0	178.29	178.29
RE DISCCART	453400.0	4614900.0	178.29	178.29
RE DISCCART	453500.0	4614900.0	178.29	178.29
RE DISCCART	453600.0	4614900.0	178.29	178.29
RE DISCCART	453700.0	4614900.0	178.49	178.49
RE DISCCART	453800.0	4614900.0	178.53	178.53
RE DISCCART	453900.0	4614900.0	178.34	178.34
RE DISCCART	454000.0	4614900.0	175.19	175.19
RE DISCCART	454600.0	4614900.0	178.19	178.19
RE DISCCART	454700.0	4614900.0	178.19	178.19
RE DISCCART	454800.0	4614900.0	178.19	178.19
RE DISCCART	454900.0	4614900.0	178.19	178.19
RE DISCCART	455000.0	4614900.0	178.19	178.19
RE DISCCART	455100.0	4614900.0	178.19	178.19
RE DISCCART	455200.0	4614900.0	178.19	178.19
RE DISCCART	455300.0	4614900.0	178.19	178.19
RE DISCCART	455400.0	4614900.0	178.19	178.19
RE DISCCART	455500.0	4614900.0	178.19	178.19
RE DISCCART	455600.0	4614900.0	178.19	178.19
RE DISCCART	455700.0	4614900.0	178.19	178.19
RE DISCCART	455800.0	4614900.0	178.19	178.19
RE DISCCART	455900.0	4614900.0	178.19	178.19
RE DISCCART	456000.0	4614900.0	178.19	178.19

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RE DISCCART	456100.0	4614900.0	178.65	178.65
RE DISCCART	456200.0	4614900.0	177.43	177.43
RE DISCCART	456300.0	4614900.0	177.7	177.7
RE DISCCART	456400.0	4614900.0	179.63	179.63
RE DISCCART	456500.0	4614900.0	179.68	184.84
RE DISCCART	456600.0	4614900.0	178.98	184.25
RE DISCCART	452000.0	4615000.0	178.29	178.29
RE DISCCART	452100.0	4615000.0	178.29	178.29
RE DISCCART	452200.0	4615000.0	178.29	209.75
RE DISCCART	452300.0	4615000.0	178.29	209.9
RE DISCCART	452400.0	4615000.0	178.29	209.9
RE DISCCART	452500.0	4615000.0	178.29	209.89
RE DISCCART	452600.0	4615000.0	178.29	209.75
RE DISCCART	452700.0	4615000.0	178.29	178.29
RE DISCCART	452800.0	4615000.0	178.29	178.29
RE DISCCART	452900.0	4615000.0	178.29	178.29
RE DISCCART	453000.0	4615000.0	178.29	178.29
RE DISCCART	453100.0	4615000.0	178.29	178.29
RE DISCCART	453200.0	4615000.0	178.29	178.29
RE DISCCART	453300.0	4615000.0	178.29	178.29
RE DISCCART	453400.0	4615000.0	178.29	178.29
RE DISCCART	453500.0	4615000.0	178.29	178.29
RE DISCCART	453600.0	4615000.0	178.29	178.29
RE DISCCART	453700.0	4615000.0	178.39	178.39
RE DISCCART	453800.0	4615000.0	178.39	178.39
RE DISCCART	453900.0	4615000.0	178.42	178.42
RE DISCCART	454000.0	4615000.0	175.19	175.19
RE DISCCART	454600.0	4615000.0	178.19	178.19
RE DISCCART	454700.0	4615000.0	178.19	178.19
RE DISCCART	454800.0	4615000.0	178.27	178.27
RE DISCCART	454900.0	4615000.0	178.19	178.19
RE DISCCART	455000.0	4615000.0	178.19	178.19
RE DISCCART	455100.0	4615000.0	178.19	178.19
RE DISCCART	455200.0	4615000.0	178.19	178.19
RE DISCCART	455300.0	4615000.0	178.19	178.19
RE DISCCART	455400.0	4615000.0	178.19	178.19
RE DISCCART	455500.0	4615000.0	178.19	178.19
RE DISCCART	455600.0	4615000.0	178.19	178.19
RE DISCCART	455700.0	4615000.0	178.19	178.19
RE DISCCART	455800.0	4615000.0	178.19	178.19
RE DISCCART	455900.0	4615000.0	178.19	178.19
RE DISCCART	456000.0	4615000.0	178.19	178.19
RE DISCCART	456100.0	4615000.0	178.05	178.05
RE DISCCART	456200.0	4615000.0	178.26	178.26
RE DISCCART	456300.0	4615000.0	177.64	177.64
RE DISCCART	456400.0	4615000.0	179.49	179.49
RE DISCCART	456500.0	4615000.0	179.26	182.74
RE DISCCART	456600.0	4615000.0	179.42	182.36

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RE DISCCART	452000.0	4615100.0	178.29	178.29
RE DISCCART	452100.0	4615100.0	177.98	177.98
RE DISCCART	452200.0	4615100.0	177.62	177.62
RE DISCCART	452300.0	4615100.0	178.29	178.29
RE DISCCART	452400.0	4615100.0	178.29	178.29
RE DISCCART	452500.0	4615100.0	178.29	178.29
RE DISCCART	452600.0	4615100.0	178.29	178.29
RE DISCCART	452700.0	4615100.0	178.29	178.29
RE DISCCART	452800.0	4615100.0	178.29	178.29
RE DISCCART	452900.0	4615100.0	178.29	178.29
RE DISCCART	453000.0	4615100.0	178.29	178.29
RE DISCCART	453100.0	4615100.0	178.34	178.34
RE DISCCART	453200.0	4615100.0	178.39	178.39
RE DISCCART	453300.0	4615100.0	178.29	178.29
RE DISCCART	453400.0	4615100.0	178.29	178.29
RE DISCCART	453500.0	4615100.0	178.29	178.29
RE DISCCART	453600.0	4615100.0	178.29	178.29
RE DISCCART	453700.0	4615100.0	178.29	178.29
RE DISCCART	453800.0	4615100.0	178.29	178.29
RE DISCCART	453900.0	4615100.0	178.29	178.29
RE DISCCART	454000.0	4615100.0	175.19	175.19
RE DISCCART	454100.0	4615100.0	178.18	178.18
RE DISCCART	454600.0	4615100.0	178.19	178.19
RE DISCCART	454700.0	4615100.0	178.19	178.19
RE DISCCART	454800.0	4615100.0	178.19	178.19
RE DISCCART	454900.0	4615100.0	178.19	178.19
RE DISCCART	455000.0	4615100.0	178.19	178.19
RE DISCCART	455100.0	4615100.0	178.19	178.19
RE DISCCART	455200.0	4615100.0	178.19	178.19
RE DISCCART	455300.0	4615100.0	178.19	178.19
RE DISCCART	455400.0	4615100.0	178.19	178.19
RE DISCCART	455500.0	4615100.0	178.19	178.19
RE DISCCART	455600.0	4615100.0	178.19	178.19
RE DISCCART	455700.0	4615100.0	178.19	178.19
RE DISCCART	455800.0	4615100.0	178.19	178.19
RE DISCCART	455900.0	4615100.0	178.19	178.19
RE DISCCART	456000.0	4615100.0	178.19	178.19
RE DISCCART	456100.0	4615100.0	177.83	177.83
RE DISCCART	456200.0	4615100.0	177.91	177.91
RE DISCCART	456300.0	4615100.0	177.88	177.88
RE DISCCART	456400.0	4615100.0	179.68	179.68
RE DISCCART	456500.0	4615100.0	179.97	179.97
RE DISCCART	456600.0	4615100.0	179.97	179.97
RE DISCCART	452000.0	4615200.0	178.29	178.29
RE DISCCART	452100.0	4615200.0	177.59	177.59
RE DISCCART	452200.0	4615200.0	178.28	178.28
RE DISCCART	452300.0	4615200.0	178.29	178.29
RE DISCCART	452400.0	4615200.0	178.29	178.29

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RE DISCCART	452500.0	4615200.0	178.29	178.29
RE DISCCART	452600.0	4615200.0	178.29	178.29
RE DISCCART	452700.0	4615200.0	178.29	178.29
RE DISCCART	452800.0	4615200.0	178.29	178.29
RE DISCCART	452900.0	4615200.0	178.29	178.29
RE DISCCART	453000.0	4615200.0	178.29	178.29
RE DISCCART	453100.0	4615200.0	178.33	178.33
RE DISCCART	453200.0	4615200.0	178.49	178.49
RE DISCCART	453300.0	4615200.0	178.29	178.29
RE DISCCART	453400.0	4615200.0	178.29	178.29
RE DISCCART	453500.0	4615200.0	178.29	178.29
RE DISCCART	453600.0	4615200.0	178.29	178.29
RE DISCCART	453700.0	4615200.0	178.29	178.29
RE DISCCART	453800.0	4615200.0	178.29	178.29
RE DISCCART	453900.0	4615200.0	178.32	178.32
RE DISCCART	454000.0	4615200.0	175.53	175.53
RE DISCCART	454100.0	4615200.0	178.1	178.1
RE DISCCART	454200.0	4615200.0	178.19	178.19
RE DISCCART	454600.0	4615200.0	178.19	178.19
RE DISCCART	454700.0	4615200.0	178.19	178.19
RE DISCCART	454800.0	4615200.0	178.19	178.19
RE DISCCART	454900.0	4615200.0	178.19	178.19
RE DISCCART	455000.0	4615200.0	178.19	178.19
RE DISCCART	455100.0	4615200.0	178.19	178.19
RE DISCCART	455200.0	4615200.0	178.19	178.19
RE DISCCART	455300.0	4615200.0	178.19	178.19
RE DISCCART	455400.0	4615200.0	178.19	178.19
RE DISCCART	455500.0	4615200.0	178.19	178.19
RE DISCCART	455600.0	4615200.0	178.19	178.19
RE DISCCART	455700.0	4615200.0	178.19	178.19
RE DISCCART	455800.0	4615200.0	178.19	178.19
RE DISCCART	455900.0	4615200.0	178.19	178.19
RE DISCCART	456000.0	4615200.0	178.19	178.19
RE DISCCART	456100.0	4615200.0	178.08	178.08
RE DISCCART	456200.0	4615200.0	178.2	178.2
RE DISCCART	456300.0	4615200.0	177.94	177.94
RE DISCCART	456400.0	4615200.0	179.33	179.33
RE DISCCART	456500.0	4615200.0	181.3	181.3
RE DISCCART	456600.0	4615200.0	181.38	181.38
RE DISCCART	452000.0	4615300.0	178.29	178.29
RE DISCCART	452100.0	4615300.0	177.34	177.34
RE DISCCART	452200.0	4615300.0	178.29	178.29
RE DISCCART	452300.0	4615300.0	177.69	177.69
RE DISCCART	452400.0	4615300.0	177.71	177.71
RE DISCCART	452500.0	4615300.0	177.73	177.73
RE DISCCART	452600.0	4615300.0	177.75	177.75
RE DISCCART	452700.0	4615300.0	178.29	178.29
RE DISCCART	452800.0	4615300.0	178.29	178.29

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RE DISCCART	452900.0	4615300.0	178.29	178.29
RE DISCCART	453000.0	4615300.0	178.29	178.29
RE DISCCART	453100.0	4615300.0	178.36	178.36
RE DISCCART	453200.0	4615300.0	178.6	178.6
RE DISCCART	453300.0	4615300.0	178.46	178.46
RE DISCCART	453400.0	4615300.0	178.29	178.29
RE DISCCART	453500.0	4615300.0	178.29	178.29
RE DISCCART	453600.0	4615300.0	178.29	178.29
RE DISCCART	453700.0	4615300.0	178.29	178.29
RE DISCCART	453800.0	4615300.0	178.29	178.29
RE DISCCART	453900.0	4615300.0	178.42	178.42
RE DISCCART	454000.0	4615300.0	175.46	175.46
RE DISCCART	454100.0	4615300.0	178.41	178.41
RE DISCCART	454200.0	4615300.0	178.19	178.19
RE DISCCART	454300.0	4615300.0	178.19	178.19
RE DISCCART	454400.0	4615300.0	178.19	178.19
RE DISCCART	454500.0	4615300.0	178.19	178.19
RE DISCCART	454600.0	4615300.0	178.19	178.19
RE DISCCART	454700.0	4615300.0	178.19	178.19
RE DISCCART	454800.0	4615300.0	178.19	178.19
RE DISCCART	454900.0	4615300.0	178.19	178.19
RE DISCCART	455000.0	4615300.0	178.19	178.19
RE DISCCART	455100.0	4615300.0	178.19	178.19
RE DISCCART	455200.0	4615300.0	178.19	178.19
RE DISCCART	455300.0	4615300.0	178.19	178.19
RE DISCCART	455400.0	4615300.0	178.19	178.19
RE DISCCART	455500.0	4615300.0	178.19	178.19
RE DISCCART	455600.0	4615300.0	178.19	178.19
RE DISCCART	455700.0	4615300.0	178.19	178.19
RE DISCCART	455800.0	4615300.0	178.19	178.19
RE DISCCART	455900.0	4615300.0	178.19	178.19
RE DISCCART	456000.0	4615300.0	178.19	178.19
RE DISCCART	456100.0	4615300.0	178.26	178.26
RE DISCCART	456200.0	4615300.0	178.21	178.21
RE DISCCART	456300.0	4615300.0	177.86	177.86
RE DISCCART	456400.0	4615300.0	179.55	179.55
RE DISCCART	456500.0	4615300.0	182.27	182.27
RE DISCCART	456600.0	4615300.0	181.83	181.83
RE DISCCART	452000.0	4615400.0	178.29	178.29
RE DISCCART	452100.0	4615400.0	178.16	178.16
RE DISCCART	452200.0	4615400.0	177.99	177.99
RE DISCCART	452300.0	4615400.0	176.99	176.99
RE DISCCART	452400.0	4615400.0	176.99	176.99
RE DISCCART	452500.0	4615400.0	176.99	176.99
RE DISCCART	452600.0	4615400.0	177.01	177.01
RE DISCCART	452700.0	4615400.0	177.09	177.09
RE DISCCART	452800.0	4615400.0	176.99	176.99
RE DISCCART	452900.0	4615400.0	178.29	178.29

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RE DISCCART	453000.0	4615400.0	178.29	178.29
RE DISCCART	453100.0	4615400.0	178.38	178.38
RE DISCCART	453200.0	4615400.0	178.54	178.54
RE DISCCART	453300.0	4615400.0	178.63	178.63
RE DISCCART	453400.0	4615400.0	178.29	178.29
RE DISCCART	453500.0	4615400.0	178.29	178.29
RE DISCCART	453600.0	4615400.0	178.34	178.34
RE DISCCART	453700.0	4615400.0	178.29	178.29
RE DISCCART	453800.0	4615400.0	178.39	178.39
RE DISCCART	453900.0	4615400.0	178.44	178.44
RE DISCCART	454000.0	4615400.0	175.42	175.42
RE DISCCART	454100.0	4615400.0	178.56	178.56
RE DISCCART	454200.0	4615400.0	178.19	178.19
RE DISCCART	454300.0	4615400.0	178.19	178.19
RE DISCCART	454400.0	4615400.0	178.19	178.19
RE DISCCART	454500.0	4615400.0	178.19	178.19
RE DISCCART	454600.0	4615400.0	178.19	178.19
RE DISCCART	454700.0	4615400.0	178.19	178.19
RE DISCCART	454800.0	4615400.0	178.19	178.19
RE DISCCART	454900.0	4615400.0	178.19	178.19
RE DISCCART	455000.0	4615400.0	178.19	178.19
RE DISCCART	455100.0	4615400.0	178.19	178.19
RE DISCCART	455200.0	4615400.0	178.19	178.19
RE DISCCART	455300.0	4615400.0	178.19	178.19
RE DISCCART	455400.0	4615400.0	178.19	178.19
RE DISCCART	455500.0	4615400.0	178.19	178.19
RE DISCCART	455600.0	4615400.0	178.19	178.19
RE DISCCART	455700.0	4615400.0	178.19	178.19
RE DISCCART	455800.0	4615400.0	178.19	178.19
RE DISCCART	455900.0	4615400.0	178.19	178.19
RE DISCCART	456000.0	4615400.0	178.19	178.19
RE DISCCART	456100.0	4615400.0	178.21	178.21
RE DISCCART	456200.0	4615400.0	178.22	178.22
RE DISCCART	456300.0	4615400.0	177.8	177.8
RE DISCCART	456400.0	4615400.0	179.57	179.57
RE DISCCART	456500.0	4615400.0	181.06	181.06
RE DISCCART	456600.0	4615400.0	182.26	182.26
RE DISCCART	452000.0	4615500.0	178.29	178.29
RE DISCCART	452100.0	4615500.0	178.29	178.29
RE DISCCART	452200.0	4615500.0	178.29	178.29
RE DISCCART	452300.0	4615500.0	176.99	176.99
RE DISCCART	452400.0	4615500.0	176.99	176.99
RE DISCCART	452500.0	4615500.0	176.99	176.99
RE DISCCART	452600.0	4615500.0	178.29	178.29
RE DISCCART	452700.0	4615500.0	176.99	176.99
RE DISCCART	452800.0	4615500.0	176.99	176.99
RE DISCCART	452900.0	4615500.0	178.29	178.29
RE DISCCART	453000.0	4615500.0	178.29	178.29

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RE DISCCART	453100.0	4615500.0	178.39	178.39
RE DISCCART	453200.0	4615500.0	178.6	178.6
RE DISCCART	453300.0	4615500.0	178.68	178.68
RE DISCCART	453400.0	4615500.0	178.35	178.35
RE DISCCART	453500.0	4615500.0	178.29	178.29
RE DISCCART	453600.0	4615500.0	178.58	178.58
RE DISCCART	453700.0	4615500.0	178.42	178.42
RE DISCCART	453800.0	4615500.0	178.58	178.58
RE DISCCART	453900.0	4615500.0	178.31	178.31
RE DISCCART	454000.0	4615500.0	175.62	178.29
RE DISCCART	454100.0	4615500.0	176.8	176.8
RE DISCCART	454200.0	4615500.0	178.19	178.19
RE DISCCART	454300.0	4615500.0	178.19	178.19
RE DISCCART	454400.0	4615500.0	178.19	178.19
RE DISCCART	454500.0	4615500.0	178.19	178.19
RE DISCCART	454600.0	4615500.0	178.19	178.19
RE DISCCART	454700.0	4615500.0	178.19	178.19
RE DISCCART	454800.0	4615500.0	178.19	178.19
RE DISCCART	454900.0	4615500.0	178.19	178.19
RE DISCCART	455000.0	4615500.0	178.19	178.19
RE DISCCART	455100.0	4615500.0	178.19	178.19
RE DISCCART	455200.0	4615500.0	178.19	178.19
RE DISCCART	455300.0	4615500.0	178.19	178.19
RE DISCCART	455400.0	4615500.0	178.19	178.19
RE DISCCART	455500.0	4615500.0	178.19	178.19
RE DISCCART	455600.0	4615500.0	178.19	178.19
RE DISCCART	455700.0	4615500.0	178.19	178.19
RE DISCCART	455800.0	4615500.0	178.19	178.19
RE DISCCART	455900.0	4615500.0	178.19	178.19
RE DISCCART	456000.0	4615500.0	178.19	178.19
RE DISCCART	456100.0	4615500.0	177.86	177.86
RE DISCCART	456200.0	4615500.0	178.22	178.22
RE DISCCART	456300.0	4615500.0	177.49	177.49
RE DISCCART	456400.0	4615500.0	178.8	178.8
RE DISCCART	456500.0	4615500.0	179.85	183.18
RE DISCCART	456600.0	4615500.0	179.81	183.26
RE DISCCART	452000.0	4615600.0	178.29	178.29
RE DISCCART	452100.0	4615600.0	178.29	178.29
RE DISCCART	452200.0	4615600.0	178.29	178.29
RE DISCCART	452300.0	4615600.0	176.99	176.99
RE DISCCART	452400.0	4615600.0	177.84	177.84
RE DISCCART	452500.0	4615600.0	176.99	176.99
RE DISCCART	452600.0	4615600.0	176.99	176.99
RE DISCCART	452700.0	4615600.0	177.97	177.97
RE DISCCART	452800.0	4615600.0	177.89	177.89
RE DISCCART	452900.0	4615600.0	178.29	178.29
RE DISCCART	453000.0	4615600.0	178.29	178.29
RE DISCCART	453100.0	4615600.0	178.45	178.45

Phosphorus_2012_OTHER.DTA

RE DISCCART	453200.0	4615600.0	178.69	178.69
RE DISCCART	453300.0	4615600.0	178.82	178.82
RE DISCCART	453400.0	4615600.0	178.85	178.85
RE DISCCART	453500.0	4615600.0	178.71	178.71
RE DISCCART	453600.0	4615600.0	178.84	178.84
RE DISCCART	453700.0	4615600.0	178.84	178.84
RE DISCCART	453800.0	4615600.0	178.72	178.72
RE DISCCART	453900.0	4615600.0	178.45	178.45
RE DISCCART	454000.0	4615600.0	176.58	176.58
RE DISCCART	454100.0	4615600.0	177.2	177.2
RE DISCCART	454200.0	4615600.0	178.19	178.19
RE DISCCART	454300.0	4615600.0	178.19	178.19
RE DISCCART	454400.0	4615600.0	178.19	178.19
RE DISCCART	454500.0	4615600.0	178.19	178.19
RE DISCCART	454600.0	4615600.0	178.19	178.19
RE DISCCART	454700.0	4615600.0	178.19	178.19
RE DISCCART	454800.0	4615600.0	178.19	178.19
RE DISCCART	454900.0	4615600.0	178.19	178.19
RE DISCCART	455000.0	4615600.0	178.19	178.19
RE DISCCART	455100.0	4615600.0	178.19	178.19
RE DISCCART	455200.0	4615600.0	178.19	178.19
RE DISCCART	455300.0	4615600.0	178.19	178.19
RE DISCCART	455400.0	4615600.0	178.19	178.19
RE DISCCART	455500.0	4615600.0	178.19	178.19
RE DISCCART	455600.0	4615600.0	178.19	178.19
RE DISCCART	455700.0	4615600.0	178.19	178.19
RE DISCCART	455800.0	4615600.0	178.19	178.19
RE DISCCART	455900.0	4615600.0	178.19	178.19
RE DISCCART	456000.0	4615600.0	178.19	178.19
RE DISCCART	456100.0	4615600.0	177.52	177.52
RE DISCCART	456200.0	4615600.0	178.02	178.02
RE DISCCART	456300.0	4615600.0	178.38	178.38
RE DISCCART	456400.0	4615600.0	178.77	178.77
RE DISCCART	456500.0	4615600.0	179.03	183.54
RE DISCCART	456600.0	4615600.0	178.87	183.7
RE DISCCART	452000.0	4615700.0	178.29	178.29
RE DISCCART	452100.0	4615700.0	178.29	178.29
RE DISCCART	452200.0	4615700.0	178.29	178.29
RE DISCCART	452300.0	4615700.0	177.57	177.57
RE DISCCART	452400.0	4615700.0	177.7	177.7
RE DISCCART	452500.0	4615700.0	176.99	176.99
RE DISCCART	452600.0	4615700.0	176.99	176.99
RE DISCCART	452700.0	4615700.0	176.99	176.99
RE DISCCART	452800.0	4615700.0	177.16	177.16
RE DISCCART	452900.0	4615700.0	176.99	176.99
RE DISCCART	453000.0	4615700.0	178.29	178.29
RE DISCCART	453100.0	4615700.0	178.45	178.45
RE DISCCART	453200.0	4615700.0	178.79	178.79

Phosphorus_2012_OTHER.DTA

RE DISCCART	453300.0	4615700.0	179.01	179.01
RE DISCCART	453400.0	4615700.0	179.16	179.16
RE DISCCART	453500.0	4615700.0	179.17	179.17
RE DISCCART	453600.0	4615700.0	179.14	179.14
RE DISCCART	453700.0	4615700.0	179.07	179.07
RE DISCCART	453800.0	4615700.0	178.8	178.8
RE DISCCART	453900.0	4615700.0	178.39	178.39
RE DISCCART	454000.0	4615700.0	177.6	177.6
RE DISCCART	454100.0	4615700.0	175.19	178.41
RE DISCCART	454200.0	4615700.0	178.19	178.19
RE DISCCART	454300.0	4615700.0	178.19	178.19
RE DISCCART	454400.0	4615700.0	178.19	178.19
RE DISCCART	454500.0	4615700.0	178.19	178.19
RE DISCCART	454600.0	4615700.0	178.19	178.19
RE DISCCART	454700.0	4615700.0	178.19	178.19
RE DISCCART	454800.0	4615700.0	178.19	178.19
RE DISCCART	454900.0	4615700.0	178.19	178.19
RE DISCCART	455000.0	4615700.0	178.19	178.19
RE DISCCART	455100.0	4615700.0	178.19	178.19
RE DISCCART	455200.0	4615700.0	178.19	178.19
RE DISCCART	455300.0	4615700.0	178.19	178.19
RE DISCCART	455400.0	4615700.0	178.19	178.19
RE DISCCART	455500.0	4615700.0	178.19	178.19
RE DISCCART	455600.0	4615700.0	178.19	178.19
RE DISCCART	455700.0	4615700.0	178.19	178.19
RE DISCCART	455800.0	4615700.0	178.19	178.19
RE DISCCART	455900.0	4615700.0	178.19	178.19
RE DISCCART	456000.0	4615700.0	178.19	178.19
RE DISCCART	456100.0	4615700.0	178.5	178.5
RE DISCCART	456200.0	4615700.0	178.59	178.59
RE DISCCART	456300.0	4615700.0	178.59	178.59
RE DISCCART	456400.0	4615700.0	178.48	178.48
RE DISCCART	456500.0	4615700.0	178.32	183.58
RE DISCCART	456600.0	4615700.0	178.79	183.72
RE DISCCART	452000.0	4615800.0	178.29	178.29
RE DISCCART	452100.0	4615800.0	178.29	178.29
RE DISCCART	452200.0	4615800.0	178.29	178.29
RE DISCCART	452300.0	4615800.0	176.99	176.99
RE DISCCART	452400.0	4615800.0	178.29	178.29
RE DISCCART	452500.0	4615800.0	178.29	178.29
RE DISCCART	452600.0	4615800.0	178.29	178.29
RE DISCCART	452700.0	4615800.0	176.99	176.99
RE DISCCART	452800.0	4615800.0	177.73	177.73
RE DISCCART	452900.0	4615800.0	178.29	178.29
RE DISCCART	453000.0	4615800.0	178.29	178.29
RE DISCCART	453100.0	4615800.0	178.45	178.45
RE DISCCART	453200.0	4615800.0	178.78	178.78
RE DISCCART	453300.0	4615800.0	179.01	179.01

Phosphorus_2012_OTHER.DTA

RE DISCCART 453400.0 4615800.0 179. 179.
RE DISCCART 453500.0 4615800.0 179.4 179.4
RE DISCCART 453600.0 4615800.0 179.39 179.39
RE DISCCART 453700.0 4615800.0 179.25 179.25
RE DISCCART 453800.0 4615800.0 178.55 178.55
RE DISCCART 453900.0 4615800.0 178.36 178.36
RE DISCCART 454000.0 4615800.0 176.8 178.29
RE DISCCART 454100.0 4615800.0 175.19 178.09
RE DISCCART 454200.0 4615800.0 178.19 178.19
RE DISCCART 454300.0 4615800.0 178.19 178.19
RE DISCCART 454400.0 4615800.0 178.19 178.19
RE DISCCART 454500.0 4615800.0 178.19 178.19
RE DISCCART 454600.0 4615800.0 178.19 178.19
RE DISCCART 454700.0 4615800.0 178.19 178.19
RE DISCCART 454800.0 4615800.0 178.19 178.19
RE DISCCART 454900.0 4615800.0 178.19 178.19
RE DISCCART 455000.0 4615800.0 178.19 178.19
RE DISCCART 455100.0 4615800.0 178.19 178.19
RE DISCCART 455200.0 4615800.0 178.19 178.19
RE DISCCART 455300.0 4615800.0 178.19 178.19
RE DISCCART 455400.0 4615800.0 178.19 178.19
RE DISCCART 455500.0 4615800.0 178.19 178.19
RE DISCCART 455600.0 4615800.0 178.19 178.19
RE DISCCART 455700.0 4615800.0 178.19 178.19
RE DISCCART 455800.0 4615800.0 178.19 178.19
RE DISCCART 455900.0 4615800.0 178.19 178.19
RE DISCCART 456000.0 4615800.0 178.19 178.19
RE DISCCART 456100.0 4615800.0 178.01 178.01
RE DISCCART 456200.0 4615800.0 178.28 178.28
RE DISCCART 456300.0 4615800.0 178.36 178.36
RE DISCCART 456400.0 4615800.0 178.53 178.53
RE DISCCART 456500.0 4615800.0 178.37 183.37
RE DISCCART 456600.0 4615800.0 179.34 183.68
RE DISCCART 452000.0 4615900.0 178.29 178.29
RE DISCCART 452100.0 4615900.0 178.29 178.29
RE DISCCART 452200.0 4615900.0 178.29 178.29
RE DISCCART 452300.0 4615900.0 178.29 178.29
RE DISCCART 452400.0 4615900.0 178.29 178.29
RE DISCCART 452500.0 4615900.0 178.29 178.29
RE DISCCART 452600.0 4615900.0 177.89 177.89
RE DISCCART 452700.0 4615900.0 176.99 176.99
RE DISCCART 452800.0 4615900.0 178.24 178.24
RE DISCCART 452900.0 4615900.0 178.29 178.29
RE DISCCART 453000.0 4615900.0 178.29 178.29
RE DISCCART 453100.0 4615900.0 178.45 178.45
RE DISCCART 453200.0 4615900.0 178.78 178.78
RE DISCCART 453300.0 4615900.0 179.08 179.08
RE DISCCART 453400.0 4615900.0 179.03 179.03

Phosphorus_2012_OTHER.DTA

RE DISCCART	453500.0	4615900.0	179.3	179.3
RE DISCCART	453600.0	4615900.0	179.59	179.59
RE DISCCART	453700.0	4615900.0	177.94	177.94
RE DISCCART	453800.0	4615900.0	177.79	177.79
RE DISCCART	453900.0	4615900.0	177.81	177.81
RE DISCCART	454000.0	4615900.0	175.38	175.38
RE DISCCART	454100.0	4615900.0	175.19	178.66
RE DISCCART	454200.0	4615900.0	178.22	178.22
RE DISCCART	454300.0	4615900.0	178.19	178.19
RE DISCCART	454400.0	4615900.0	178.19	178.19
RE DISCCART	454500.0	4615900.0	178.19	178.19
RE DISCCART	454600.0	4615900.0	178.19	178.19
RE DISCCART	454700.0	4615900.0	178.19	178.19
RE DISCCART	454800.0	4615900.0	178.19	178.19
RE DISCCART	454900.0	4615900.0	178.19	178.19
RE DISCCART	455000.0	4615900.0	178.19	178.19
RE DISCCART	455100.0	4615900.0	178.19	178.19
RE DISCCART	455200.0	4615900.0	178.19	178.19
RE DISCCART	455300.0	4615900.0	178.19	178.19
RE DISCCART	455400.0	4615900.0	178.19	178.19
RE DISCCART	455500.0	4615900.0	178.19	178.19
RE DISCCART	455600.0	4615900.0	178.19	178.19
RE DISCCART	455700.0	4615900.0	178.19	178.19
RE DISCCART	455800.0	4615900.0	178.19	178.19
RE DISCCART	455900.0	4615900.0	178.19	178.19
RE DISCCART	456000.0	4615900.0	178.19	178.19
RE DISCCART	456100.0	4615900.0	178.02	178.02
RE DISCCART	456200.0	4615900.0	178.19	178.19
RE DISCCART	456300.0	4615900.0	178.28	178.28
RE DISCCART	456400.0	4615900.0	178.33	178.33
RE DISCCART	456500.0	4615900.0	179.93	179.93
RE DISCCART	456600.0	4615900.0	179.18	183.16
RE DISCCART	452000.0	4616000.0	178.44	178.44
RE DISCCART	452100.0	4616000.0	178.29	178.29
RE DISCCART	452200.0	4616000.0	178.29	178.29
RE DISCCART	452300.0	4616000.0	178.29	178.29
RE DISCCART	452400.0	4616000.0	178.29	178.29
RE DISCCART	452500.0	4616000.0	178.29	178.29
RE DISCCART	452600.0	4616000.0	176.99	176.99
RE DISCCART	452700.0	4616000.0	176.99	176.99
RE DISCCART	452800.0	4616000.0	177.95	177.95
RE DISCCART	452900.0	4616000.0	177.18	177.18
RE DISCCART	453000.0	4616000.0	178.29	178.29
RE DISCCART	453100.0	4616000.0	178.45	178.45
RE DISCCART	453200.0	4616000.0	178.78	178.78
RE DISCCART	453300.0	4616000.0	179.1	179.1
RE DISCCART	453400.0	4616000.0	179.4	179.4
RE DISCCART	453500.0	4616000.0	179.68	179.68

Phosphorus_2012_OTHER.DTA

RE DISCCART	453600.0	4616000.0	179.95	179.95
RE DISCCART	453700.0	4616000.0	178.75	178.75
RE DISCCART	453800.0	4616000.0	178.76	178.76
RE DISCCART	453900.0	4616000.0	178.78	178.78
RE DISCCART	454000.0	4616000.0	175.19	175.19
RE DISCCART	454100.0	4616000.0	177.71	177.71
RE DISCCART	454200.0	4616000.0	178.25	178.25
RE DISCCART	454300.0	4616000.0	178.19	178.19
RE DISCCART	454400.0	4616000.0	178.19	178.19
RE DISCCART	454500.0	4616000.0	178.19	178.19
RE DISCCART	454600.0	4616000.0	178.19	178.19
RE DISCCART	454700.0	4616000.0	178.19	178.19
RE DISCCART	454800.0	4616000.0	178.19	178.19
RE DISCCART	454900.0	4616000.0	178.19	178.19
RE DISCCART	455000.0	4616000.0	178.19	178.19
RE DISCCART	455100.0	4616000.0	178.19	178.19
RE DISCCART	455200.0	4616000.0	178.19	178.19
RE DISCCART	455300.0	4616000.0	178.19	178.19
RE DISCCART	455400.0	4616000.0	178.19	178.19
RE DISCCART	455500.0	4616000.0	178.19	178.19
RE DISCCART	455600.0	4616000.0	178.19	178.19
RE DISCCART	455700.0	4616000.0	178.19	178.19
RE DISCCART	455800.0	4616000.0	178.19	178.19
RE DISCCART	455900.0	4616000.0	178.19	178.19
RE DISCCART	456000.0	4616000.0	178.19	178.19
RE DISCCART	456100.0	4616000.0	178.04	178.04
RE DISCCART	456200.0	4616000.0	178.2	178.2
RE DISCCART	456300.0	4616000.0	178.58	178.58
RE DISCCART	456400.0	4616000.0	178.22	178.22
RE DISCCART	456500.0	4616000.0	179.4	179.4
RE DISCCART	456600.0	4616000.0	179.78	182.42
RE DISCCART	452000.0	4616100.0	179.38	179.38
RE DISCCART	452100.0	4616100.0	178.29	178.29
RE DISCCART	452200.0	4616100.0	178.29	178.29
RE DISCCART	452300.0	4616100.0	178.29	178.29
RE DISCCART	452400.0	4616100.0	177.72	177.72
RE DISCCART	452500.0	4616100.0	177.71	177.71
RE DISCCART	452600.0	4616100.0	176.99	176.99
RE DISCCART	452700.0	4616100.0	177.57	177.57
RE DISCCART	452800.0	4616100.0	177.92	177.92
RE DISCCART	452900.0	4616100.0	178.1	178.1
RE DISCCART	453000.0	4616100.0	178.29	178.29
RE DISCCART	453100.0	4616100.0	178.35	178.35
RE DISCCART	453200.0	4616100.0	178.39	178.39
RE DISCCART	453300.0	4616100.0	178.46	178.46
RE DISCCART	453400.0	4616100.0	178.57	178.57
RE DISCCART	453500.0	4616100.0	179.71	179.71
RE DISCCART	453600.0	4616100.0	180.22	180.22

Phosphorus_2012_OTHER.DTA

RE DISCCART	453700.0	4616100.0	180.5	180.5
RE DISCCART	453800.0	4616100.0	180.33	180.33
RE DISCCART	453900.0	4616100.0	180.15	180.15
RE DISCCART	454000.0	4616100.0	175.19	175.19
RE DISCCART	454100.0	4616100.0	178.19	178.19
RE DISCCART	454200.0	4616100.0	178.19	178.19
RE DISCCART	454300.0	4616100.0	178.29	178.29
RE DISCCART	454400.0	4616100.0	178.19	178.19
RE DISCCART	454500.0	4616100.0	178.19	178.19
RE DISCCART	454600.0	4616100.0	178.19	178.19
RE DISCCART	454700.0	4616100.0	178.19	178.19
RE DISCCART	454800.0	4616100.0	178.19	178.19
RE DISCCART	454900.0	4616100.0	178.19	178.19
RE DISCCART	455000.0	4616100.0	178.19	178.19
RE DISCCART	455100.0	4616100.0	178.19	178.19
RE DISCCART	455200.0	4616100.0	178.19	178.19
RE DISCCART	455300.0	4616100.0	178.19	178.19
RE DISCCART	455400.0	4616100.0	178.38	178.38
RE DISCCART	455500.0	4616100.0	178.19	178.19
RE DISCCART	455600.0	4616100.0	178.19	178.19
RE DISCCART	455700.0	4616100.0	178.19	178.19
RE DISCCART	455800.0	4616100.0	178.19	178.19
RE DISCCART	455900.0	4616100.0	178.19	178.19
RE DISCCART	456000.0	4616100.0	178.19	178.19
RE DISCCART	456100.0	4616100.0	178.09	178.09
RE DISCCART	456200.0	4616100.0	178.27	178.27
RE DISCCART	456300.0	4616100.0	178.45	178.45
RE DISCCART	456400.0	4616100.0	178.37	178.37
RE DISCCART	456500.0	4616100.0	178.99	178.99
RE DISCCART	456600.0	4616100.0	180.69	180.69
RE DISCCART	452000.0	4616200.0	179.62	179.62
RE DISCCART	452100.0	4616200.0	178.64	178.64
RE DISCCART	452200.0	4616200.0	178.38	178.38
RE DISCCART	452300.0	4616200.0	178.29	178.29
RE DISCCART	452400.0	4616200.0	178.29	178.29
RE DISCCART	452500.0	4616200.0	178.31	178.31
RE DISCCART	452600.0	4616200.0	178.37	178.37
RE DISCCART	452700.0	4616200.0	178.31	178.31
RE DISCCART	452800.0	4616200.0	178.29	178.29
RE DISCCART	452900.0	4616200.0	178.29	178.29
RE DISCCART	453000.0	4616200.0	178.29	178.29
RE DISCCART	453100.0	4616200.0	178.29	178.29
RE DISCCART	453200.0	4616200.0	178.29	178.29
RE DISCCART	453300.0	4616200.0	178.29	178.29
RE DISCCART	453400.0	4616200.0	178.29	178.29
RE DISCCART	453500.0	4616200.0	179.7	179.7
RE DISCCART	453600.0	4616200.0	180.18	180.18
RE DISCCART	453700.0	4616200.0	180.09	180.09

Phosphorus_2012_OTHER.DTA

RE DISCCART 453800.0 4616200.0 178.5 178.5
RE DISCCART 453900.0 4616200.0 177.6 177.6
RE DISCCART 454000.0 4616200.0 176.12 177.72
RE DISCCART 454100.0 4616200.0 178.19 178.19
RE DISCCART 454200.0 4616200.0 178.19 178.19
RE DISCCART 454300.0 4616200.0 178.2 178.2
RE DISCCART 454400.0 4616200.0 178.3 178.3
RE DISCCART 454500.0 4616200.0 178.19 178.19
RE DISCCART 454600.0 4616200.0 178.19 178.19
RE DISCCART 454700.0 4616200.0 178.19 178.19
RE DISCCART 454800.0 4616200.0 178.19 178.19
RE DISCCART 454900.0 4616200.0 178.19 178.19
RE DISCCART 455000.0 4616200.0 178.19 178.19
RE DISCCART 455100.0 4616200.0 178.19 178.19
RE DISCCART 455200.0 4616200.0 178.19 178.19
RE DISCCART 455300.0 4616200.0 178.19 178.19
RE DISCCART 455400.0 4616200.0 178.33 178.33
RE DISCCART 455500.0 4616200.0 178.31 178.31
RE DISCCART 455600.0 4616200.0 178.19 178.19
RE DISCCART 455700.0 4616200.0 178.19 178.19
RE DISCCART 455800.0 4616200.0 178.19 178.19
RE DISCCART 455900.0 4616200.0 178.19 178.19
RE DISCCART 456000.0 4616200.0 178.19 178.19
RE DISCCART 456100.0 4616200.0 178.11 178.11
RE DISCCART 456200.0 4616200.0 178.29 178.29
RE DISCCART 456300.0 4616200.0 178.48 178.48
RE DISCCART 456400.0 4616200.0 178.18 178.18
RE DISCCART 456500.0 4616200.0 178.91 178.91
RE DISCCART 456600.0 4616200.0 180.62 180.62
RE DISCCART 452000.0 4616300.0 179.43 179.43
RE DISCCART 452100.0 4616300.0 178.91 178.91
RE DISCCART 452200.0 4616300.0 178.5 178.5
RE DISCCART 452300.0 4616300.0 178.29 178.29
RE DISCCART 452400.0 4616300.0 178.48 178.48
RE DISCCART 452500.0 4616300.0 178.59 178.59
RE DISCCART 452600.0 4616300.0 178.69 178.69
RE DISCCART 452700.0 4616300.0 178.54 178.54
RE DISCCART 452800.0 4616300.0 178.49 178.49
RE DISCCART 452900.0 4616300.0 178.46 178.46
RE DISCCART 453000.0 4616300.0 178.29 178.29
RE DISCCART 453100.0 4616300.0 178.29 178.29
RE DISCCART 453200.0 4616300.0 178.29 178.29
RE DISCCART 453300.0 4616300.0 178.31 178.31
RE DISCCART 453400.0 4616300.0 178.32 178.32
RE DISCCART 453500.0 4616300.0 179.75 179.75
RE DISCCART 453600.0 4616300.0 178.46 178.46
RE DISCCART 453700.0 4616300.0 178.42 178.42
RE DISCCART 453800.0 4616300.0 178.36 178.36

Phosphorus_2012_OTHER.DTA

RE DISCCART	453900.0	4616300.0	178.37	178.37
RE DISCCART	454000.0	4616300.0	176.29	178.49
RE DISCCART	454100.0	4616300.0	178.19	178.19
RE DISCCART	454200.0	4616300.0	178.19	178.19
RE DISCCART	454300.0	4616300.0	178.19	178.19
RE DISCCART	454400.0	4616300.0	178.41	178.41
RE DISCCART	454500.0	4616300.0	178.22	178.22
RE DISCCART	454600.0	4616300.0	178.19	178.19
RE DISCCART	454700.0	4616300.0	178.19	178.19
RE DISCCART	454800.0	4616300.0	178.19	178.19
RE DISCCART	454900.0	4616300.0	178.19	178.19
RE DISCCART	455000.0	4616300.0	178.19	178.19
RE DISCCART	455100.0	4616300.0	178.19	178.19
RE DISCCART	455200.0	4616300.0	178.19	178.19
RE DISCCART	455300.0	4616300.0	178.19	178.19
RE DISCCART	455400.0	4616300.0	178.39	178.39
RE DISCCART	455500.0	4616300.0	178.45	178.45
RE DISCCART	455600.0	4616300.0	178.28	178.28
RE DISCCART	455700.0	4616300.0	178.19	178.19
RE DISCCART	455800.0	4616300.0	178.19	178.19
RE DISCCART	455900.0	4616300.0	178.19	178.19
RE DISCCART	456000.0	4616300.0	178.19	178.19
RE DISCCART	456100.0	4616300.0	178.27	178.27
RE DISCCART	456200.0	4616300.0	178.26	178.26
RE DISCCART	456300.0	4616300.0	178.36	178.36
RE DISCCART	456400.0	4616300.0	178.16	178.16
RE DISCCART	456500.0	4616300.0	179.46	179.46
RE DISCCART	456600.0	4616300.0	178.6	183.08
RE DISCCART	452000.0	4616400.0	179.2	179.2
RE DISCCART	452100.0	4616400.0	178.87	178.87
RE DISCCART	452200.0	4616400.0	178.45	178.45
RE DISCCART	452300.0	4616400.0	178.29	178.29
RE DISCCART	452400.0	4616400.0	178.59	178.59
RE DISCCART	452500.0	4616400.0	178.8	178.8
RE DISCCART	452600.0	4616400.0	178.84	178.84
RE DISCCART	452700.0	4616400.0	178.86	178.86
RE DISCCART	452800.0	4616400.0	178.91	178.91
RE DISCCART	452900.0	4616400.0	178.64	178.64
RE DISCCART	453000.0	4616400.0	178.29	178.29
RE DISCCART	453100.0	4616400.0	178.29	178.29
RE DISCCART	453200.0	4616400.0	178.5	178.5
RE DISCCART	453300.0	4616400.0	178.83	178.83
RE DISCCART	453400.0	4616400.0	179.19	179.19
RE DISCCART	453500.0	4616400.0	179.76	179.76
RE DISCCART	453600.0	4616400.0	179.88	179.88
RE DISCCART	453700.0	4616400.0	179.48	179.48
RE DISCCART	453800.0	4616400.0	179.42	179.42
RE DISCCART	453900.0	4616400.0	179.17	179.17

Phosphorus_2012_OTHER.DTA

RE DISCCART	454000.0	4616400.0	175.19	175.19
RE DISCCART	454100.0	4616400.0	178.19	178.19
RE DISCCART	454200.0	4616400.0	178.19	178.19
RE DISCCART	454300.0	4616400.0	178.19	178.19
RE DISCCART	454400.0	4616400.0	178.46	178.46
RE DISCCART	454500.0	4616400.0	178.37	178.37
RE DISCCART	454600.0	4616400.0	178.19	178.19
RE DISCCART	454700.0	4616400.0	178.19	178.19
RE DISCCART	454800.0	4616400.0	178.19	178.19
RE DISCCART	454900.0	4616400.0	178.19	178.19
RE DISCCART	455000.0	4616400.0	178.19	178.19
RE DISCCART	455100.0	4616400.0	178.19	178.19
RE DISCCART	455200.0	4616400.0	178.19	178.19
RE DISCCART	455300.0	4616400.0	178.19	178.19
RE DISCCART	455400.0	4616400.0	178.39	178.39
RE DISCCART	455500.0	4616400.0	178.61	178.61
RE DISCCART	455600.0	4616400.0	178.55	178.55
RE DISCCART	455700.0	4616400.0	178.28	178.28
RE DISCCART	455800.0	4616400.0	178.19	178.19
RE DISCCART	455900.0	4616400.0	178.19	178.19
RE DISCCART	456000.0	4616400.0	178.19	178.19
RE DISCCART	456100.0	4616400.0	178.5	178.5
RE DISCCART	456200.0	4616400.0	178.33	178.33
RE DISCCART	456300.0	4616400.0	178.41	178.41
RE DISCCART	456400.0	4616400.0	178.57	178.57
RE DISCCART	456500.0	4616400.0	179.95	179.95
RE DISCCART	456600.0	4616400.0	179.89	183.68
RE DISCCART	452000.0	4616500.0	178.59	178.59
RE DISCCART	452100.0	4616500.0	178.78	178.78
RE DISCCART	452200.0	4616500.0	178.36	178.36
RE DISCCART	452300.0	4616500.0	178.35	178.35
RE DISCCART	452400.0	4616500.0	178.64	178.64
RE DISCCART	452500.0	4616500.0	179.01	179.01
RE DISCCART	452600.0	4616500.0	179.02	179.02
RE DISCCART	452700.0	4616500.0	179.19	179.19
RE DISCCART	452800.0	4616500.0	179.33	179.33
RE DISCCART	452900.0	4616500.0	179.1	179.1
RE DISCCART	453000.0	4616500.0	178.47	178.47
RE DISCCART	453100.0	4616500.0	178.31	178.31
RE DISCCART	453200.0	4616500.0	178.49	178.49
RE DISCCART	453300.0	4616500.0	178.89	178.89
RE DISCCART	453400.0	4616500.0	179.31	179.31
RE DISCCART	453500.0	4616500.0	179.76	179.76
RE DISCCART	453600.0	4616500.0	180.08	180.08
RE DISCCART	453700.0	4616500.0	180.15	180.15
RE DISCCART	453800.0	4616500.0	180.13	180.13
RE DISCCART	453900.0	4616500.0	180.25	180.25
RE DISCCART	454000.0	4616500.0	178.75	179.84

Phosphorus_2012_OTHER.DTA

RE DISCCART 454100.0 4616500.0 176. 176.
RE DISCCART 454200.0 4616500.0 178.19 178.19
RE DISCCART 454300.0 4616500.0 178.19 178.19
RE DISCCART 454400.0 4616500.0 178.45 178.45
RE DISCCART 454500.0 4616500.0 178.5 178.5
RE DISCCART 454600.0 4616500.0 178.19 178.19
RE DISCCART 454700.0 4616500.0 178.19 178.19
RE DISCCART 454800.0 4616500.0 178.19 178.19
RE DISCCART 454900.0 4616500.0 178.19 178.19
RE DISCCART 455000.0 4616500.0 178.19 178.19
RE DISCCART 455100.0 4616500.0 178.19 178.19
RE DISCCART 455200.0 4616500.0 178.36 178.36
RE DISCCART 455300.0 4616500.0 178.29 178.29
RE DISCCART 455400.0 4616500.0 178.52 178.52
RE DISCCART 455500.0 4616500.0 178.78 178.78
RE DISCCART 455600.0 4616500.0 178.84 178.84
RE DISCCART 455700.0 4616500.0 178.52 178.52
RE DISCCART 455800.0 4616500.0 178.22 178.22
RE DISCCART 455900.0 4616500.0 178.23 178.23
RE DISCCART 456000.0 4616500.0 178.19 178.19
RE DISCCART 456100.0 4616500.0 178.33 178.33
RE DISCCART 456200.0 4616500.0 178.21 178.21
RE DISCCART 456300.0 4616500.0 178.06 178.06
RE DISCCART 456400.0 4616500.0 178.04 178.04
RE DISCCART 456500.0 4616500.0 180.46 183.14
RE DISCCART 456600.0 4616500.0 179.28 183.56
RE DISCCART 452000.0 4616600.0 178.2 178.2
RE DISCCART 452100.0 4616600.0 178.69 178.69
RE DISCCART 452200.0 4616600.0 178.31 178.31
RE DISCCART 452300.0 4616600.0 178.39 178.39
RE DISCCART 452400.0 4616600.0 178.7 178.7
RE DISCCART 452500.0 4616600.0 178.95 178.95
RE DISCCART 452600.0 4616600.0 179.15 179.15
RE DISCCART 452700.0 4616600.0 179.37 179.37
RE DISCCART 452800.0 4616600.0 179.58 179.58
RE DISCCART 452900.0 4616600.0 179.64 179.64
RE DISCCART 453000.0 4616600.0 178.79 178.79
RE DISCCART 453100.0 4616600.0 178.29 178.29
RE DISCCART 453200.0 4616600.0 178.46 178.46
RE DISCCART 453300.0 4616600.0 178.79 178.79
RE DISCCART 453400.0 4616600.0 179.29 179.29
RE DISCCART 453500.0 4616600.0 179.75 179.75
RE DISCCART 453600.0 4616600.0 180.04 180.04
RE DISCCART 453700.0 4616600.0 180.32 180.32
RE DISCCART 453800.0 4616600.0 180.02 180.02
RE DISCCART 453900.0 4616600.0 178.48 178.48
RE DISCCART 454000.0 4616600.0 178.27 178.27
RE DISCCART 454100.0 4616600.0 175.49 175.49

Phosphorus_2012_OTHER.DTA

RE DISCCART 454200.0 4616600.0 175.19 175.19
RE DISCCART 454300.0 4616600.0 178.06 178.06
RE DISCCART 454400.0 4616600.0 178.2 178.2
RE DISCCART 454500.0 4616600.0 178.55 178.55
RE DISCCART 454600.0 4616600.0 178.37 178.37
RE DISCCART 454700.0 4616600.0 178.19 178.19
RE DISCCART 454800.0 4616600.0 178.19 178.19
RE DISCCART 454900.0 4616600.0 178.21 178.21
RE DISCCART 455000.0 4616600.0 178.19 178.19
RE DISCCART 455100.0 4616600.0 178.19 178.19
RE DISCCART 455200.0 4616600.0 178.29 178.29
RE DISCCART 455300.0 4616600.0 178.61 178.61
RE DISCCART 455400.0 4616600.0 178.65 178.65
RE DISCCART 455500.0 4616600.0 178.82 178.82
RE DISCCART 455600.0 4616600.0 179. 179.
RE DISCCART 455700.0 4616600.0 178.7 178.7
RE DISCCART 455800.0 4616600.0 178.49 178.49
RE DISCCART 455900.0 4616600.0 178.44 178.44
RE DISCCART 456000.0 4616600.0 178.19 178.19
RE DISCCART 456100.0 4616600.0 178.32 178.32
RE DISCCART 456200.0 4616600.0 178.43 178.43
RE DISCCART 456300.0 4616600.0 178.27 178.27
RE DISCCART 456400.0 4616600.0 178.04 178.04
RE DISCCART 456500.0 4616600.0 180.61 184.67
RE DISCCART 456600.0 4616600.0 178.25 184.89
RE DISCCART 452000.0 4616700.0 178.97 178.97
RE DISCCART 452100.0 4616700.0 178.7 178.7
RE DISCCART 452200.0 4616700.0 178.29 178.29
RE DISCCART 452300.0 4616700.0 178.47 178.47
RE DISCCART 452400.0 4616700.0 178.81 178.81
RE DISCCART 452500.0 4616700.0 179.04 179.04
RE DISCCART 452600.0 4616700.0 179.27 179.27
RE DISCCART 452700.0 4616700.0 179.49 179.49
RE DISCCART 452800.0 4616700.0 179.69 179.69
RE DISCCART 452900.0 4616700.0 179.43 179.43
RE DISCCART 453000.0 4616700.0 178.76 178.76
RE DISCCART 453100.0 4616700.0 178.29 178.29
RE DISCCART 453200.0 4616700.0 178.39 178.39
RE DISCCART 453300.0 4616700.0 178.62 178.62
RE DISCCART 453400.0 4616700.0 179.12 179.12
RE DISCCART 453500.0 4616700.0 179.64 179.64
RE DISCCART 453600.0 4616700.0 179.88 179.88
RE DISCCART 453700.0 4616700.0 180.3 180.3
RE DISCCART 453800.0 4616700.0 180.02 180.02
RE DISCCART 453900.0 4616700.0 178.2 178.2
RE DISCCART 454000.0 4616700.0 178.19 178.19
RE DISCCART 454100.0 4616700.0 178.26 178.26
RE DISCCART 454200.0 4616700.0 178.71 178.71

Phosphorus_2012_OTHER.DTA

RE DISCCART	454300.0	4616700.0	175.55	175.55
RE DISCCART	454400.0	4616700.0	175.19	175.19
RE DISCCART	454500.0	4616700.0	178.32	178.32
RE DISCCART	454600.0	4616700.0	178.52	178.52
RE DISCCART	454700.0	4616700.0	178.31	178.31
RE DISCCART	454800.0	4616700.0	178.19	178.19
RE DISCCART	454900.0	4616700.0	178.37	178.37
RE DISCCART	455000.0	4616700.0	178.21	178.21
RE DISCCART	455100.0	4616700.0	178.19	178.19
RE DISCCART	455200.0	4616700.0	178.2	178.2
RE DISCCART	455300.0	4616700.0	178.65	178.65
RE DISCCART	455400.0	4616700.0	178.8	178.8
RE DISCCART	455500.0	4616700.0	179.04	179.04
RE DISCCART	455600.0	4616700.0	179.15	179.15
RE DISCCART	455700.0	4616700.0	178.93	178.93
RE DISCCART	455800.0	4616700.0	178.72	178.72
RE DISCCART	455900.0	4616700.0	178.29	178.29
RE DISCCART	456000.0	4616700.0	178.19	178.19
RE DISCCART	456100.0	4616700.0	178.18	178.18
RE DISCCART	456200.0	4616700.0	178.38	178.38
RE DISCCART	456300.0	4616700.0	178.24	178.24
RE DISCCART	456400.0	4616700.0	177.87	177.87
RE DISCCART	456500.0	4616700.0	178.37	178.37
RE DISCCART	456600.0	4616700.0	178.65	178.65
RE DISCCART	452000.0	4616800.0	179.14	179.14
RE DISCCART	452100.0	4616800.0	178.59	178.59
RE DISCCART	452200.0	4616800.0	178.29	178.29
RE DISCCART	452300.0	4616800.0	178.56	178.56
RE DISCCART	452400.0	4616800.0	178.89	178.89
RE DISCCART	452500.0	4616800.0	179.16	179.16
RE DISCCART	452600.0	4616800.0	179.41	179.41
RE DISCCART	452700.0	4616800.0	179.68	179.68
RE DISCCART	452800.0	4616800.0	179.63	179.63
RE DISCCART	452900.0	4616800.0	179.31	179.31
RE DISCCART	453000.0	4616800.0	178.79	178.79
RE DISCCART	453100.0	4616800.0	178.58	178.58
RE DISCCART	453200.0	4616800.0	178.29	178.29
RE DISCCART	453300.0	4616800.0	178.45	178.45
RE DISCCART	453400.0	4616800.0	178.89	178.89
RE DISCCART	453500.0	4616800.0	179.42	179.42
RE DISCCART	453600.0	4616800.0	179.82	179.82
RE DISCCART	453700.0	4616800.0	180.06	180.06
RE DISCCART	453800.0	4616800.0	178.96	178.96
RE DISCCART	453900.0	4616800.0	178.28	178.28
RE DISCCART	454000.0	4616800.0	178.17	178.17
RE DISCCART	454100.0	4616800.0	178.18	178.18
RE DISCCART	454200.0	4616800.0	178.22	178.22
RE DISCCART	454300.0	4616800.0	178.18	178.18

Phosphorus_2012_OTHER.DTA

RE DISCCART 454400.0 4616800.0 179.12 179.12
RE DISCCART 454500.0 4616800.0 175.19 178.46
RE DISCCART 454600.0 4616800.0 179.02 179.02
RE DISCCART 454700.0 4616800.0 179.08 179.08
RE DISCCART 454800.0 4616800.0 178.19 178.19
RE DISCCART 454900.0 4616800.0 178.35 178.35
RE DISCCART 455000.0 4616800.0 178.41 178.41
RE DISCCART 455100.0 4616800.0 178.19 178.19
RE DISCCART 455200.0 4616800.0 178.2 178.2
RE DISCCART 455300.0 4616800.0 178.54 178.54
RE DISCCART 455400.0 4616800.0 178.88 178.88
RE DISCCART 455500.0 4616800.0 179.11 179.11
RE DISCCART 455600.0 4616800.0 179.28 179.28
RE DISCCART 455700.0 4616800.0 179.11 179.11
RE DISCCART 455800.0 4616800.0 178.95 178.95
RE DISCCART 455900.0 4616800.0 178.45 178.45
RE DISCCART 456000.0 4616800.0 178.19 178.19
RE DISCCART 456100.0 4616800.0 178.26 178.26
RE DISCCART 456200.0 4616800.0 178.6 178.6
RE DISCCART 456300.0 4616800.0 178.44 178.44
RE DISCCART 456400.0 4616800.0 178.12 178.12
RE DISCCART 456500.0 4616800.0 178.7 178.7
RE DISCCART 456600.0 4616800.0 178.86 178.86
RE DISCCART 452000.0 4616900.0 178.85 178.85
RE DISCCART 452100.0 4616900.0 178.4 178.4
RE DISCCART 452200.0 4616900.0 178.32 178.32
RE DISCCART 452300.0 4616900.0 178.7 178.7
RE DISCCART 452400.0 4616900.0 179. 179.
RE DISCCART 452500.0 4616900.0 179.31 179.31
RE DISCCART 452600.0 4616900.0 179.58 179.58
RE DISCCART 452700.0 4616900.0 179.69 179.69
RE DISCCART 452800.0 4616900.0 179.48 179.48
RE DISCCART 452900.0 4616900.0 179.18 179.18
RE DISCCART 453000.0 4616900.0 179.08 179.08
RE DISCCART 453100.0 4616900.0 178.67 178.67
RE DISCCART 453200.0 4616900.0 178.34 178.34
RE DISCCART 453300.0 4616900.0 178.31 178.31
RE DISCCART 453400.0 4616900.0 178.67 178.67
RE DISCCART 453500.0 4616900.0 178.78 178.78
RE DISCCART 453600.0 4616900.0 179.27 179.27
RE DISCCART 453700.0 4616900.0 178.24 178.24
RE DISCCART 453800.0 4616900.0 178.19 178.19
RE DISCCART 453900.0 4616900.0 178.19 178.19
RE DISCCART 454000.0 4616900.0 178.2 178.2
RE DISCCART 454100.0 4616900.0 178.19 178.19
RE DISCCART 454200.0 4616900.0 178.19 178.19
RE DISCCART 454300.0 4616900.0 178.2 178.2
RE DISCCART 454400.0 4616900.0 178.35 178.35

Phosphorus_2012_OTHER.DTA

RE DISCCART 454500.0 4616900.0 180.77 182.17
RE DISCCART 454600.0 4616900.0 176.26 182.22
RE DISCCART 454700.0 4616900.0 179.53 179.53
RE DISCCART 454800.0 4616900.0 178.19 178.19
RE DISCCART 454900.0 4616900.0 178.19 178.19
RE DISCCART 455000.0 4616900.0 178.33 178.33
RE DISCCART 455100.0 4616900.0 178.22 178.22
RE DISCCART 455200.0 4616900.0 178.2 178.2
RE DISCCART 455300.0 4616900.0 178.61 178.61
RE DISCCART 455400.0 4616900.0 178.77 178.77
RE DISCCART 455500.0 4616900.0 179.2 179.2
RE DISCCART 455600.0 4616900.0 179.39 179.39
RE DISCCART 455700.0 4616900.0 179.21 179.21
RE DISCCART 455800.0 4616900.0 179.06 179.06
RE DISCCART 455900.0 4616900.0 178.52 178.52
RE DISCCART 456000.0 4616900.0 178.32 178.32
RE DISCCART 456100.0 4616900.0 178.86 178.86
RE DISCCART 456200.0 4616900.0 179.3 179.3
RE DISCCART 456300.0 4616900.0 179.34 179.34
RE DISCCART 456400.0 4616900.0 179.1 179.1
RE DISCCART 456500.0 4616900.0 179.26 179.26
RE DISCCART 456600.0 4616900.0 178.74 178.74
RE DISCCART 452000.0 4617000.0 178.3 178.3
RE DISCCART 452100.0 4617000.0 178.29 178.29
RE DISCCART 452200.0 4617000.0 178.56 178.56
RE DISCCART 452300.0 4617000.0 178.88 178.88
RE DISCCART 452400.0 4617000.0 179.19 179.19
RE DISCCART 452500.0 4617000.0 179.49 179.49
RE DISCCART 452600.0 4617000.0 179.69 179.69
RE DISCCART 452700.0 4617000.0 179.6 179.6
RE DISCCART 452800.0 4617000.0 179.39 179.39
RE DISCCART 452900.0 4617000.0 179.34 179.34
RE DISCCART 453000.0 4617000.0 179.02 179.02
RE DISCCART 453100.0 4617000.0 178.61 178.61
RE DISCCART 453200.0 4617000.0 178.37 178.37
RE DISCCART 453300.0 4617000.0 178.29 178.29
RE DISCCART 453400.0 4617000.0 178.56 178.56
RE DISCCART 453500.0 4617000.0 178.2 178.2
RE DISCCART 453600.0 4617000.0 178.91 178.91
RE DISCCART 453700.0 4617000.0 179.07 179.07
RE DISCCART 453800.0 4617000.0 178.51 178.51
RE DISCCART 453900.0 4617000.0 178.21 178.21
RE DISCCART 454000.0 4617000.0 178.2 178.2
RE DISCCART 454100.0 4617000.0 178.21 178.21
RE DISCCART 454200.0 4617000.0 178.22 178.22
RE DISCCART 454300.0 4617000.0 178.72 178.72
RE DISCCART 454400.0 4617000.0 179.7 179.7
RE DISCCART 454500.0 4617000.0 178.56 178.56

Phosphorus_2012_OTHER.DTA

RE DISCCART	454600.0	4617000.0	175.19	175.19
RE DISCCART	454700.0	4617000.0	178.58	178.58
RE DISCCART	454800.0	4617000.0	178.19	178.19
RE DISCCART	454900.0	4617000.0	178.19	178.19
RE DISCCART	455000.0	4617000.0	178.22	178.22
RE DISCCART	455100.0	4617000.0	178.41	178.41
RE DISCCART	455200.0	4617000.0	178.69	178.69
RE DISCCART	455300.0	4617000.0	178.7	178.7
RE DISCCART	455400.0	4617000.0	178.8	178.8
RE DISCCART	455500.0	4617000.0	179.11	179.11
RE DISCCART	455600.0	4617000.0	179.41	179.41
RE DISCCART	455700.0	4617000.0	179.34	179.34
RE DISCCART	455800.0	4617000.0	179.09	179.09
RE DISCCART	455900.0	4617000.0	178.72	178.72
RE DISCCART	456000.0	4617000.0	178.32	178.32
RE DISCCART	456100.0	4617000.0	178.64	178.64
RE DISCCART	456200.0	4617000.0	178.74	178.74
RE DISCCART	456300.0	4617000.0	179.47	186.69
RE DISCCART	456400.0	4617000.0	179.52	179.52
RE DISCCART	456500.0	4617000.0	179.55	179.55
RE DISCCART	456600.0	4617000.0	179.13	179.13
RE DISCCART	452000.0	4617100.0	178.87	178.87
RE DISCCART	452100.0	4617100.0	178.6	178.6
RE DISCCART	452200.0	4617100.0	178.95	178.95
RE DISCCART	452300.0	4617100.0	179.13	179.13
RE DISCCART	452400.0	4617100.0	179.38	179.38
RE DISCCART	452500.0	4617100.0	179.65	179.65
RE DISCCART	452600.0	4617100.0	179.68	179.68
RE DISCCART	452700.0	4617100.0	179.49	179.49
RE DISCCART	452800.0	4617100.0	179.39	179.39
RE DISCCART	452900.0	4617100.0	179.22	179.22
RE DISCCART	453000.0	4617100.0	178.81	178.81
RE DISCCART	453100.0	4617100.0	178.58	178.58
RE DISCCART	453200.0	4617100.0	178.54	178.54
RE DISCCART	453300.0	4617100.0	178.29	178.29
RE DISCCART	453400.0	4617100.0	178.45	178.45
RE DISCCART	453500.0	4617100.0	178.21	178.21
RE DISCCART	453600.0	4617100.0	178.49	178.49
RE DISCCART	453700.0	4617100.0	178.87	178.87
RE DISCCART	453800.0	4617100.0	178.7	178.7
RE DISCCART	453900.0	4617100.0	178.49	178.49
RE DISCCART	454000.0	4617100.0	178.19	178.19
RE DISCCART	454100.0	4617100.0	178.16	178.16
RE DISCCART	454200.0	4617100.0	178.42	178.42
RE DISCCART	454300.0	4617100.0	178.95	178.95
RE DISCCART	454400.0	4617100.0	179.13	179.13
RE DISCCART	454500.0	4617100.0	178.28	178.28
RE DISCCART	454600.0	4617100.0	175.19	175.19

Phosphorus_2012_OTHER.DTA

RE DISCCART 454700.0 4617100.0 178.19 178.19
RE DISCCART 454800.0 4617100.0 178.2 178.2
RE DISCCART 454900.0 4617100.0 178.19 178.19
RE DISCCART 455000.0 4617100.0 178.19 178.19
RE DISCCART 455100.0 4617100.0 178.37 178.37
RE DISCCART 455200.0 4617100.0 178.76 178.76
RE DISCCART 455300.0 4617100.0 179.04 179.04
RE DISCCART 455400.0 4617100.0 179.16 179.16
RE DISCCART 455500.0 4617100.0 179.29 179.29
RE DISCCART 455600.0 4617100.0 179.39 179.39
RE DISCCART 455700.0 4617100.0 179.4 179.4
RE DISCCART 455800.0 4617100.0 179.11 179.11
RE DISCCART 455900.0 4617100.0 178.95 178.95
RE DISCCART 456000.0 4617100.0 178.38 178.38
RE DISCCART 456100.0 4617100.0 178.58 178.58
RE DISCCART 456200.0 4617100.0 178.66 187.12
RE DISCCART 456300.0 4617100.0 181.14 187.12
RE DISCCART 456400.0 4617100.0 179.17 179.17
RE DISCCART 456500.0 4617100.0 179.64 179.64
RE DISCCART 456600.0 4617100.0 180.14 180.14
RE DISCCART 452000.0 4617200.0 179.33 179.33
RE DISCCART 452100.0 4617200.0 179.12 179.12
RE DISCCART 452200.0 4617200.0 179.3 179.3
RE DISCCART 452300.0 4617200.0 179.4 179.4
RE DISCCART 452400.0 4617200.0 179.55 179.55
RE DISCCART 452500.0 4617200.0 179.69 179.69
RE DISCCART 452600.0 4617200.0 179.59 179.59
RE DISCCART 452700.0 4617200.0 179.59 179.59
RE DISCCART 452800.0 4617200.0 179.36 179.36
RE DISCCART 452900.0 4617200.0 179.11 179.11
RE DISCCART 453000.0 4617200.0 179. 179.
RE DISCCART 453100.0 4617200.0 178.71 178.71
RE DISCCART 453200.0 4617200.0 178.37 178.37
RE DISCCART 453300.0 4617200.0 178.35 178.35
RE DISCCART 453400.0 4617200.0 178.77 178.77
RE DISCCART 453500.0 4617200.0 178.19 178.19
RE DISCCART 453600.0 4617200.0 178.35 178.35
RE DISCCART 453700.0 4617200.0 178.73 178.73
RE DISCCART 453800.0 4617200.0 178.73 178.73
RE DISCCART 453900.0 4617200.0 178.4 178.4
RE DISCCART 454000.0 4617200.0 176.92 176.92
RE DISCCART 454100.0 4617200.0 176.84 176.84
RE DISCCART 454200.0 4617200.0 176.92 176.92
RE DISCCART 454300.0 4617200.0 177.04 177.04
RE DISCCART 454400.0 4617200.0 177.07 177.07
RE DISCCART 454500.0 4617200.0 176.83 176.83
RE DISCCART 454600.0 4617200.0 175.19 175.19
RE DISCCART 454700.0 4617200.0 178.19 178.19

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RE DISCCART 454800.0 4617200.0 178.19 178.19
RE DISCCART 454900.0 4617200.0 178.19 178.19
RE DISCCART 455000.0 4617200.0 178.19 178.19
RE DISCCART 455100.0 4617200.0 178.21 178.21
RE DISCCART 455200.0 4617200.0 178.78 178.78
RE DISCCART 455300.0 4617200.0 179.17 179.17
RE DISCCART 455400.0 4617200.0 179.32 179.32
RE DISCCART 455500.0 4617200.0 179.55 179.55
RE DISCCART 455600.0 4617200.0 179.58 179.58
RE DISCCART 455700.0 4617200.0 179.5 179.5
RE DISCCART 455800.0 4617200.0 179.36 179.36
RE DISCCART 455900.0 4617200.0 179.13 179.13
RE DISCCART 456000.0 4617200.0 178.45 178.45
RE DISCCART 456100.0 4617200.0 178.67 186.29
RE DISCCART 456200.0 4617200.0 184.82 186.47
RE DISCCART 456300.0 4617200.0 180.47 180.47
RE DISCCART 456400.0 4617200.0 179.5 179.5
RE DISCCART 456500.0 4617200.0 180.65 180.65
RE DISCCART 456600.0 4617200.0 179.3 179.3
RE DISCCART 452000.0 4617300.0 180.38 180.38
RE DISCCART 452100.0 4617300.0 180.24 180.24
RE DISCCART 452200.0 4617300.0 179.66 179.66
RE DISCCART 452300.0 4617300.0 179.57 179.57
RE DISCCART 452400.0 4617300.0 179.69 179.69
RE DISCCART 452500.0 4617300.0 179.91 179.91
RE DISCCART 452600.0 4617300.0 179.99 179.99
RE DISCCART 452700.0 4617300.0 179.62 179.62
RE DISCCART 452800.0 4617300.0 179.49 179.49
RE DISCCART 452900.0 4617300.0 179.19 179.19
RE DISCCART 453000.0 4617300.0 178.8 178.8
RE DISCCART 453100.0 4617300.0 178.51 178.51
RE DISCCART 453200.0 4617300.0 178.34 178.34
RE DISCCART 453300.0 4617300.0 178.37 178.37
RE DISCCART 453400.0 4617300.0 179.31 179.31
RE DISCCART 453500.0 4617300.0 178.81 178.81
RE DISCCART 453600.0 4617300.0 178.62 178.62
RE DISCCART 453700.0 4617300.0 178.59 178.59
RE DISCCART 453800.0 4617300.0 178.29 178.29
RE DISCCART 453900.0 4617300.0 178.19 178.19
RE DISCCART 454000.0 4617300.0 178.28 178.28
RE DISCCART 454100.0 4617300.0 178.25 178.25
RE DISCCART 454200.0 4617300.0 178.19 178.19
RE DISCCART 454300.0 4617300.0 178.19 178.19
RE DISCCART 454400.0 4617300.0 178.19 178.19
RE DISCCART 454500.0 4617300.0 178.19 178.19
RE DISCCART 454600.0 4617300.0 175.19 175.19
RE DISCCART 454700.0 4617300.0 178.19 178.19
RE DISCCART 454800.0 4617300.0 178.19 178.19

Phosphorus_2012_OTHER.DTA

RE DISCCART	454900.0	4617300.0	178.19	178.19
RE DISCCART	455000.0	4617300.0	178.19	178.19
RE DISCCART	455100.0	4617300.0	178.19	178.19
RE DISCCART	455200.0	4617300.0	178.44	178.44
RE DISCCART	455300.0	4617300.0	178.92	178.92
RE DISCCART	455400.0	4617300.0	179.23	179.23
RE DISCCART	455500.0	4617300.0	179.49	179.49
RE DISCCART	455600.0	4617300.0	179.73	179.73
RE DISCCART	455700.0	4617300.0	179.7	179.7
RE DISCCART	455800.0	4617300.0	179.6	179.6
RE DISCCART	455900.0	4617300.0	179.35	179.35
RE DISCCART	456000.0	4617300.0	178.78	178.78
RE DISCCART	456100.0	4617300.0	182.07	182.07
RE DISCCART	456200.0	4617300.0	179.87	179.87
RE DISCCART	456300.0	4617300.0	179.81	179.81
RE DISCCART	456400.0	4617300.0	180.77	180.77
RE DISCCART	456500.0	4617300.0	179.43	179.43
RE DISCCART	456600.0	4617300.0	178.38	178.38
RE DISCCART	449000.0	4609000.0	183.39	183.39
RE DISCCART	449500.0	4609000.0	184.04	184.04
RE DISCCART	450000.0	4609000.0	184.29	184.29
RE DISCCART	450500.0	4609000.0	182.94	182.94
RE DISCCART	451000.0	4609000.0	180.31	180.31
RE DISCCART	451500.0	4609000.0	179.59	179.59
RE DISCCART	452000.0	4609000.0	179.19	179.19
RE DISCCART	452500.0	4609000.0	178.97	178.97
RE DISCCART	453000.0	4609000.0	178.38	178.38
RE DISCCART	453500.0	4609000.0	178.19	178.19
RE DISCCART	454000.0	4609000.0	178.19	178.19
RE DISCCART	454500.0	4609000.0	178.27	178.27
RE DISCCART	455000.0	4609000.0	178.85	178.85
RE DISCCART	455500.0	4609000.0	178.57	178.57
RE DISCCART	456000.0	4609000.0	178.11	178.11
RE DISCCART	456500.0	4609000.0	178.93	178.93
RE DISCCART	457000.0	4609000.0	179.27	179.27
RE DISCCART	457500.0	4609000.0	178.7	178.7
RE DISCCART	458000.0	4609000.0	178.44	178.44
RE DISCCART	458500.0	4609000.0	178.47	178.47
RE DISCCART	459000.0	4609000.0	178.65	178.65
RE DISCCART	459500.0	4609000.0	178.02	178.02
RE DISCCART	460000.0	4609000.0	178.48	178.48
RE DISCCART	449000.0	4609500.0	182.79	182.79
RE DISCCART	449500.0	4609500.0	183.99	183.99
RE DISCCART	450000.0	4609500.0	182.36	182.36
RE DISCCART	450500.0	4609500.0	179.44	179.44
RE DISCCART	451000.0	4609500.0	179.07	179.07
RE DISCCART	451500.0	4609500.0	178.52	178.52
RE DISCCART	452000.0	4609500.0	179.62	179.62

Phosphorus_2012_OTHER.DTA

RE DISCCART 452500.0 4609500.0 178.25 178.25
RE DISCCART 453000.0 4609500.0 178.19 178.19
RE DISCCART 453500.0 4609500.0 180.93 180.93
RE DISCCART 454000.0 4609500.0 178.19 178.19
RE DISCCART 454500.0 4609500.0 178.4 178.4
RE DISCCART 455000.0 4609500.0 178.19 178.19
RE DISCCART 455500.0 4609500.0 178.22 178.22
RE DISCCART 456000.0 4609500.0 178.42 178.42
RE DISCCART 456500.0 4609500.0 178.99 178.99
RE DISCCART 457000.0 4609500.0 178.92 178.92
RE DISCCART 457500.0 4609500.0 178.27 178.27
RE DISCCART 458000.0 4609500.0 179.36 179.36
RE DISCCART 458500.0 4609500.0 179.41 179.41
RE DISCCART 459000.0 4609500.0 179.02 179.02
RE DISCCART 459500.0 4609500.0 178.22 178.22
RE DISCCART 460000.0 4609500.0 178.54 178.54
RE DISCCART 449000.0 4610000.0 183.07 183.07
RE DISCCART 449500.0 4610000.0 181.97 181.97
RE DISCCART 450000.0 4610000.0 180.16 180.16
RE DISCCART 450500.0 4610000.0 179.64 179.64
RE DISCCART 451000.0 4610000.0 179. 179.
RE DISCCART 451500.0 4610000.0 179.29 179.29
RE DISCCART 452000.0 4610000.0 176.99 176.99
RE DISCCART 452500.0 4610000.0 180.55 221.91
RE DISCCART 453000.0 4610000.0 176.99 221.91
RE DISCCART 453500.0 4610000.0 178.72 178.72
RE DISCCART 454000.0 4610000.0 178.19 178.19
RE DISCCART 454500.0 4610000.0 178.19 178.19
RE DISCCART 455000.0 4610000.0 178.4 178.4
RE DISCCART 455500.0 4610000.0 178.19 178.19
RE DISCCART 456000.0 4610000.0 178.48 178.48
RE DISCCART 456500.0 4610000.0 178.53 178.53
RE DISCCART 457000.0 4610000.0 178.43 178.43
RE DISCCART 457500.0 4610000.0 177.87 177.87
RE DISCCART 458000.0 4610000.0 178.05 178.05
RE DISCCART 458500.0 4610000.0 178.35 178.35
RE DISCCART 459000.0 4610000.0 178.33 178.33
RE DISCCART 459500.0 4610000.0 179.39 179.39
RE DISCCART 460000.0 4610000.0 178.51 178.51
RE DISCCART 449000.0 4610500.0 182.7 182.7
RE DISCCART 449500.0 4610500.0 179.77 179.77
RE DISCCART 450000.0 4610500.0 178.81 183.91
RE DISCCART 450500.0 4610500.0 180.53 197.07
RE DISCCART 451000.0 4610500.0 178.61 178.61
RE DISCCART 451500.0 4610500.0 178.49 178.49
RE DISCCART 452000.0 4610500.0 180.65 180.65
RE DISCCART 452500.0 4610500.0 178.06 221.91
RE DISCCART 453000.0 4610500.0 178.46 221.91

Phosphorus_2012_OTHER.DTA

RE DISCCART	453500.0	4610500.0	178.48	178.48
RE DISCCART	454000.0	4610500.0	178.19	178.19
RE DISCCART	454500.0	4610500.0	178.28	178.28
RE DISCCART	455000.0	4610500.0	179.05	179.05
RE DISCCART	455500.0	4610500.0	178.19	178.19
RE DISCCART	456000.0	4610500.0	177.67	177.67
RE DISCCART	456500.0	4610500.0	178.31	178.31
RE DISCCART	457000.0	4610500.0	178.1	178.1
RE DISCCART	457500.0	4610500.0	179.27	179.27
RE DISCCART	458000.0	4610500.0	177.49	177.49
RE DISCCART	458500.0	4610500.0	178.63	178.63
RE DISCCART	459000.0	4610500.0	176.33	176.33
RE DISCCART	459500.0	4610500.0	178.92	178.92
RE DISCCART	460000.0	4610500.0	178.62	178.62
RE DISCCART	449000.0	4611000.0	180.32	180.32
RE DISCCART	449500.0	4611000.0	178.27	178.27
RE DISCCART	450000.0	4611000.0	176.99	176.99
RE DISCCART	450500.0	4611000.0	176.99	198.94
RE DISCCART	451000.0	4611000.0	182.81	185.06
RE DISCCART	451500.0	4611000.0	178.47	178.47
RE DISCCART	452000.0	4611000.0	195.12	196.88
RE DISCCART	452500.0	4611000.0	179.48	179.48
RE DISCCART	453000.0	4611000.0	176.99	176.99
RE DISCCART	453500.0	4611000.0	178.19	178.19
RE DISCCART	454000.0	4611000.0	178.19	178.19
RE DISCCART	454500.0	4611000.0	178.61	178.61
RE DISCCART	455000.0	4611000.0	178.19	178.19
RE DISCCART	455500.0	4611000.0	178.19	178.19
RE DISCCART	456000.0	4611000.0	178.7	178.7
RE DISCCART	456500.0	4611000.0	177.96	177.96
RE DISCCART	457000.0	4611000.0	178.59	178.59
RE DISCCART	457500.0	4611000.0	178.8	178.8
RE DISCCART	458000.0	4611000.0	178.78	178.78
RE DISCCART	458500.0	4611000.0	178.95	178.95
RE DISCCART	459000.0	4611000.0	178.27	178.27
RE DISCCART	459500.0	4611000.0	179.87	179.87
RE DISCCART	460000.0	4611000.0	178.26	178.26
RE DISCCART	449000.0	4611500.0	179.88	179.88
RE DISCCART	449500.0	4611500.0	179.05	179.05
RE DISCCART	450000.0	4611500.0	178.6	178.6
RE DISCCART	450500.0	4611500.0	178.39	178.39
RE DISCCART	451000.0	4611500.0	178.09	178.09
RE DISCCART	451500.0	4611500.0	180.6	225.36
RE DISCCART	452000.0	4611500.0	211.82	211.82
RE DISCCART	452500.0	4611500.0	179.	179.
RE DISCCART	453000.0	4611500.0	178.19	178.19
RE DISCCART	453500.0	4611500.0	178.19	178.19
RE DISCCART	454000.0	4611500.0	180.79	180.79

Phosphorus_2012_OTHER.DTA

RE DISCCART	454500.0	4611500.0	178.45	178.45
RE DISCCART	455000.0	4611500.0	178.19	178.19
RE DISCCART	455500.0	4611500.0	178.61	178.61
RE DISCCART	456000.0	4611500.0	179.87	179.87
RE DISCCART	456500.0	4611500.0	178.66	178.66
RE DISCCART	457000.0	4611500.0	178.36	178.36
RE DISCCART	457500.0	4611500.0	178.23	178.23
RE DISCCART	458000.0	4611500.0	179.4	179.4
RE DISCCART	458500.0	4611500.0	179.85	179.85
RE DISCCART	459000.0	4611500.0	179.46	179.46
RE DISCCART	459500.0	4611500.0	179.19	179.19
RE DISCCART	460000.0	4611500.0	179.52	183.95
RE DISCCART	449000.0	4612000.0	179.69	179.69
RE DISCCART	449500.0	4612000.0	179.49	179.49
RE DISCCART	450000.0	4612000.0	179.38	179.38
RE DISCCART	450500.0	4612000.0	178.34	178.34
RE DISCCART	451000.0	4612000.0	182.39	182.39
RE DISCCART	451500.0	4612000.0	182.37	225.05
RE DISCCART	452000.0	4612000.0	181.49	225.36
RE DISCCART	452500.0	4612000.0	184.12	184.12
RE DISCCART	453000.0	4612000.0	184.95	184.95
RE DISCCART	453500.0	4612000.0	178.57	178.57
RE DISCCART	454000.0	4612000.0	180.49	180.49
RE DISCCART	454500.0	4612000.0	178.19	178.19
RE DISCCART	455000.0	4612000.0	178.19	178.19
RE DISCCART	455500.0	4612000.0	178.54	178.54
RE DISCCART	456000.0	4612000.0	177.55	177.55
RE DISCCART	456500.0	4612000.0	178.45	178.45
RE DISCCART	457000.0	4612000.0	187.07	187.07
RE DISCCART	457500.0	4612000.0	178.9	178.9
RE DISCCART	458000.0	4612000.0	180.18	180.18
RE DISCCART	458500.0	4612000.0	181.27	181.27
RE DISCCART	459000.0	4612000.0	179.48	179.48
RE DISCCART	459500.0	4612000.0	179.18	179.18
RE DISCCART	460000.0	4612000.0	179.39	179.39
RE DISCCART	449000.0	4612500.0	179.7	179.7
RE DISCCART	449500.0	4612500.0	179.59	179.59
RE DISCCART	450000.0	4612500.0	179.77	179.77
RE DISCCART	450500.0	4612500.0	178.49	178.49
RE DISCCART	451000.0	4612500.0	179.71	179.71
RE DISCCART	451500.0	4612500.0	178.63	178.63
RE DISCCART	457000.0	4612500.0	179.	179.
RE DISCCART	457500.0	4612500.0	179.42	179.42
RE DISCCART	458000.0	4612500.0	188.17	188.17
RE DISCCART	458500.0	4612500.0	183.15	183.15
RE DISCCART	459000.0	4612500.0	178.08	178.08
RE DISCCART	459500.0	4612500.0	178.89	178.89
RE DISCCART	460000.0	4612500.0	180.61	180.61

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RE DISCCART	449000.0	4613000.0	179.78	179.78
RE DISCCART	449500.0	4613000.0	178.49	178.49
RE DISCCART	450000.0	4613000.0	179.65	179.65
RE DISCCART	450500.0	4613000.0	178.49	178.49
RE DISCCART	451000.0	4613000.0	175.19	175.19
RE DISCCART	451500.0	4613000.0	178.29	178.29
RE DISCCART	457000.0	4613000.0	177.09	177.09
RE DISCCART	457500.0	4613000.0	178.28	178.28
RE DISCCART	458000.0	4613000.0	176.93	176.93
RE DISCCART	458500.0	4613000.0	177.27	177.27
RE DISCCART	459000.0	4613000.0	178.45	178.45
RE DISCCART	459500.0	4613000.0	178.96	178.96
RE DISCCART	460000.0	4613000.0	179.67	179.67
RE DISCCART	449000.0	4613500.0	181.28	181.28
RE DISCCART	449500.0	4613500.0	179.69	179.69
RE DISCCART	450000.0	4613500.0	179.19	179.19
RE DISCCART	450500.0	4613500.0	178.29	178.29
RE DISCCART	451000.0	4613500.0	177.27	178.48
RE DISCCART	451500.0	4613500.0	178.39	178.39
RE DISCCART	457000.0	4613500.0	177.09	177.09
RE DISCCART	457500.0	4613500.0	177.09	177.09
RE DISCCART	458000.0	4613500.0	176.95	176.95
RE DISCCART	458500.0	4613500.0	180.9	180.9
RE DISCCART	459000.0	4613500.0	178.18	178.18
RE DISCCART	459500.0	4613500.0	179.99	179.99
RE DISCCART	460000.0	4613500.0	179.91	179.91
RE DISCCART	449000.0	4614000.0	182.54	182.54
RE DISCCART	449500.0	4614000.0	179.72	179.72
RE DISCCART	450000.0	4614000.0	178.74	178.74
RE DISCCART	450500.0	4614000.0	175.19	175.19
RE DISCCART	451000.0	4614000.0	175.19	175.19
RE DISCCART	451500.0	4614000.0	178.29	178.29
RE DISCCART	457000.0	4614000.0	177.09	177.09
RE DISCCART	457500.0	4614000.0	177.85	177.85
RE DISCCART	458000.0	4614000.0	177.94	177.94
RE DISCCART	458500.0	4614000.0	177.86	177.86
RE DISCCART	459000.0	4614000.0	178.75	178.75
RE DISCCART	459500.0	4614000.0	180.26	180.26
RE DISCCART	460000.0	4614000.0	179.27	179.27
RE DISCCART	449000.0	4614500.0	180.54	180.54
RE DISCCART	449500.0	4614500.0	179.65	179.65
RE DISCCART	450000.0	4614500.0	178.29	178.29
RE DISCCART	450500.0	4614500.0	175.19	175.19
RE DISCCART	451000.0	4614500.0	175.19	175.19
RE DISCCART	451500.0	4614500.0	177.32	177.32
RE DISCCART	457000.0	4614500.0	177.09	177.09
RE DISCCART	457500.0	4614500.0	177.65	177.65
RE DISCCART	458000.0	4614500.0	178.39	178.39

Phosphorus_2012_OTHER.DTA

RE DISCCART	458500.0	4614500.0	178.24	178.24
RE DISCCART	459000.0	4614500.0	179.16	179.16
RE DISCCART	459500.0	4614500.0	180.73	180.73
RE DISCCART	460000.0	4614500.0	175.54	175.54
RE DISCCART	449000.0	4615000.0	182.59	182.59
RE DISCCART	449500.0	4615000.0	179.69	179.69
RE DISCCART	450000.0	4615000.0	178.7	178.7
RE DISCCART	450500.0	4615000.0	178.29	178.29
RE DISCCART	451000.0	4615000.0	175.19	175.19
RE DISCCART	451500.0	4615000.0	175.19	175.19
RE DISCCART	457000.0	4615000.0	177.09	177.09
RE DISCCART	457500.0	4615000.0	177.74	177.74
RE DISCCART	458000.0	4615000.0	178.06	178.06
RE DISCCART	458500.0	4615000.0	178.77	178.77
RE DISCCART	459000.0	4615000.0	175.54	175.54
RE DISCCART	459500.0	4615000.0	175.54	175.54
RE DISCCART	460000.0	4615000.0	175.54	175.54
RE DISCCART	449000.0	4615500.0	181.36	181.36
RE DISCCART	449500.0	4615500.0	179.54	179.54
RE DISCCART	450000.0	4615500.0	178.59	178.59
RE DISCCART	450500.0	4615500.0	180.56	183.03
RE DISCCART	451000.0	4615500.0	178.29	178.29
RE DISCCART	451500.0	4615500.0	175.49	175.49
RE DISCCART	457000.0	4615500.0	178.48	178.48
RE DISCCART	457500.0	4615500.0	178.16	178.16
RE DISCCART	458000.0	4615500.0	179.33	179.33
RE DISCCART	458500.0	4615500.0	175.54	175.54
RE DISCCART	459000.0	4615500.0	175.54	175.54
RE DISCCART	459500.0	4615500.0	175.54	175.54
RE DISCCART	460000.0	4615500.0	175.23	175.23
RE DISCCART	449000.0	4616000.0	181.66	181.66
RE DISCCART	449500.0	4616000.0	180.79	180.79
RE DISCCART	450000.0	4616000.0	179.31	179.31
RE DISCCART	450500.0	4616000.0	184.68	184.68
RE DISCCART	451000.0	4616000.0	185.29	185.29
RE DISCCART	451500.0	4616000.0	176.55	178.43
RE DISCCART	457000.0	4616000.0	178.64	185.35
RE DISCCART	457500.0	4616000.0	179.75	179.75
RE DISCCART	458000.0	4616000.0	175.54	175.54
RE DISCCART	458500.0	4616000.0	175.54	175.54
RE DISCCART	459000.0	4616000.0	175.53	175.53
RE DISCCART	459500.0	4616000.0	175.19	175.19
RE DISCCART	460000.0	4616000.0	175.19	175.19
RE DISCCART	449000.0	4616500.0	182.19	182.19
RE DISCCART	449500.0	4616500.0	181.91	181.91
RE DISCCART	450000.0	4616500.0	179.29	179.29
RE DISCCART	450500.0	4616500.0	179.57	179.57
RE DISCCART	451000.0	4616500.0	191.5	191.5

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RE DISCCART 451500.0 4616500.0 194. 194.
RE DISCCART 457000.0 4616500.0 179.22 179.22
RE DISCCART 457500.0 4616500.0 175.54 175.54
RE DISCCART 458000.0 4616500.0 175.54 175.54
RE DISCCART 458500.0 4616500.0 175.4 175.4
RE DISCCART 459000.0 4616500.0 175.19 175.19
RE DISCCART 459500.0 4616500.0 175.19 175.19
RE DISCCART 460000.0 4616500.0 175.19 175.19
RE DISCCART 449000.0 4617000.0 182.05 182.05
RE DISCCART 449500.0 4617000.0 182.45 182.45
RE DISCCART 450000.0 4617000.0 179.91 179.91
RE DISCCART 450500.0 4617000.0 180.45 180.45
RE DISCCART 451000.0 4617000.0 184.01 185.93
RE DISCCART 451500.0 4617000.0 183.08 183.08
RE DISCCART 457000.0 4617000.0 178.93 178.93
RE DISCCART 457500.0 4617000.0 175.54 175.54
RE DISCCART 458000.0 4617000.0 175.29 175.29
RE DISCCART 458500.0 4617000.0 175.19 175.19
RE DISCCART 459000.0 4617000.0 175.19 175.19
RE DISCCART 459500.0 4617000.0 175.19 175.19
RE DISCCART 460000.0 4617000.0 175.19 175.19
RE DISCCART 449000.0 4617500.0 181.75 181.75
RE DISCCART 449500.0 4617500.0 182.79 182.79
RE DISCCART 450000.0 4617500.0 180.89 180.89
RE DISCCART 450500.0 4617500.0 179.74 179.74
RE DISCCART 451000.0 4617500.0 179.68 179.68
RE DISCCART 451500.0 4617500.0 178.94 178.94
RE DISCCART 452000.0 4617500.0 186.46 186.46
RE DISCCART 452500.0 4617500.0 183.11 183.11
RE DISCCART 453000.0 4617500.0 178.65 178.65
RE DISCCART 453500.0 4617500.0 180.31 180.31
RE DISCCART 454000.0 4617500.0 178.21 178.21
RE DISCCART 454500.0 4617500.0 178.23 178.23
RE DISCCART 455000.0 4617500.0 178.19 178.19
RE DISCCART 455500.0 4617500.0 179.82 179.82
RE DISCCART 456000.0 4617500.0 179.87 179.87
RE DISCCART 456500.0 4617500.0 178.43 178.43
RE DISCCART 457000.0 4617500.0 175.54 175.54
RE DISCCART 457500.0 4617500.0 175.54 175.54
RE DISCCART 458000.0 4617500.0 175.19 175.19
RE DISCCART 458500.0 4617500.0 175.19 175.19
RE DISCCART 459000.0 4617500.0 175.19 175.19
RE DISCCART 459500.0 4617500.0 175.19 175.19
RE DISCCART 460000.0 4617500.0 175.19 175.19
RE DISCCART 449000.0 4618000.0 181.45 181.45
RE DISCCART 449500.0 4618000.0 181.73 181.73
RE DISCCART 450000.0 4618000.0 182.15 182.15
RE DISCCART 450500.0 4618000.0 183.71 183.71

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RE DISCCART	451000.0	4618000.0	179.78	179.78
RE DISCCART	451500.0	4618000.0	180.32	180.32
RE DISCCART	452000.0	4618000.0	179.69	179.69
RE DISCCART	452500.0	4618000.0	178.58	178.58
RE DISCCART	453000.0	4618000.0	178.49	178.49
RE DISCCART	453500.0	4618000.0	181.2	181.2
RE DISCCART	454000.0	4618000.0	178.78	178.78
RE DISCCART	454500.0	4618000.0	178.88	178.88
RE DISCCART	455000.0	4618000.0	178.68	178.68
RE DISCCART	455500.0	4618000.0	180.34	180.34
RE DISCCART	456000.0	4618000.0	179.52	179.52
RE DISCCART	456500.0	4618000.0	175.54	175.54
RE DISCCART	457000.0	4618000.0	175.54	175.54
RE DISCCART	457500.0	4618000.0	175.36	175.36
RE DISCCART	458000.0	4618000.0	175.19	175.19
RE DISCCART	458500.0	4618000.0	175.19	175.19
RE DISCCART	459000.0	4618000.0	175.19	175.19
RE DISCCART	459500.0	4618000.0	175.19	175.19
RE DISCCART	460000.0	4618000.0	175.19	175.19
RE DISCCART	449000.0	4618500.0	182.16	182.16
RE DISCCART	449500.0	4618500.0	182.49	182.49
RE DISCCART	450000.0	4618500.0	181.76	181.76
RE DISCCART	450500.0	4618500.0	183.49	183.49
RE DISCCART	451000.0	4618500.0	178.27	178.27
RE DISCCART	451500.0	4618500.0	179.93	179.93
RE DISCCART	452000.0	4618500.0	179.17	179.17
RE DISCCART	452500.0	4618500.0	178.57	178.57
RE DISCCART	453000.0	4618500.0	178.48	178.48
RE DISCCART	453500.0	4618500.0	178.28	178.28
RE DISCCART	454000.0	4618500.0	178.55	178.55
RE DISCCART	454500.0	4618500.0	179.47	179.47
RE DISCCART	455000.0	4618500.0	175.26	186.99
RE DISCCART	455500.0	4618500.0	179.69	179.69
RE DISCCART	456000.0	4618500.0	179.77	179.77
RE DISCCART	456500.0	4618500.0	175.54	175.54
RE DISCCART	457000.0	4618500.0	175.4	175.4
RE DISCCART	457500.0	4618500.0	175.19	175.19
RE DISCCART	458000.0	4618500.0	175.19	175.19
RE DISCCART	458500.0	4618500.0	175.19	175.19
RE DISCCART	459000.0	4618500.0	175.19	175.19
RE DISCCART	459500.0	4618500.0	175.19	175.19
RE DISCCART	460000.0	4618500.0	175.19	175.19
RE DISCCART	449000.0	4619000.0	182.29	182.29
RE DISCCART	449500.0	4619000.0	180.94	180.94
RE DISCCART	450000.0	4619000.0	180.4	180.4
RE DISCCART	450500.0	4619000.0	178.6	178.6
RE DISCCART	451000.0	4619000.0	178.27	178.27
RE DISCCART	451500.0	4619000.0	178.55	178.55

Phosphorus_2012_OTHER.DTA

RE DISCCART	452000.0	4619000.0	178.29	178.29
RE DISCCART	452500.0	4619000.0	178.2	178.2
RE DISCCART	453000.0	4619000.0	179.85	179.85
RE DISCCART	453500.0	4619000.0	183.24	183.24
RE DISCCART	454000.0	4619000.0	178.17	178.17
RE DISCCART	454500.0	4619000.0	182.73	182.73
RE DISCCART	455000.0	4619000.0	179.08	179.08
RE DISCCART	455500.0	4619000.0	179.7	179.7
RE DISCCART	456000.0	4619000.0	182.38	182.38
RE DISCCART	456500.0	4619000.0	175.19	175.19
RE DISCCART	457000.0	4619000.0	175.19	175.19
RE DISCCART	457500.0	4619000.0	175.19	175.19
RE DISCCART	458000.0	4619000.0	175.19	175.19
RE DISCCART	458500.0	4619000.0	175.19	175.19
RE DISCCART	459000.0	4619000.0	175.19	175.19
RE DISCCART	459500.0	4619000.0	175.19	175.19
RE DISCCART	460000.0	4619000.0	175.19	175.19
RE DISCCART	449000.0	4619500.0	181.64	181.64
RE DISCCART	449500.0	4619500.0	183.2	183.2
RE DISCCART	450000.0	4619500.0	180.81	180.81
RE DISCCART	450500.0	4619500.0	179.87	179.87
RE DISCCART	451000.0	4619500.0	180.41	180.41
RE DISCCART	451500.0	4619500.0	182.21	182.21
RE DISCCART	452000.0	4619500.0	182.86	182.86
RE DISCCART	452500.0	4619500.0	182.58	182.58
RE DISCCART	453000.0	4619500.0	180.85	180.85
RE DISCCART	453500.0	4619500.0	178.24	178.24
RE DISCCART	454000.0	4619500.0	182.29	182.29
RE DISCCART	454500.0	4619500.0	179.21	179.21
RE DISCCART	455000.0	4619500.0	176.81	176.81
RE DISCCART	455500.0	4619500.0	181.56	181.56
RE DISCCART	456000.0	4619500.0	181.12	181.12
RE DISCCART	456500.0	4619500.0	175.19	175.19
RE DISCCART	457000.0	4619500.0	175.19	175.19
RE DISCCART	457500.0	4619500.0	175.19	175.19
RE DISCCART	458000.0	4619500.0	175.19	175.19
RE DISCCART	458500.0	4619500.0	175.19	175.19
RE DISCCART	459000.0	4619500.0	175.19	175.19
RE DISCCART	459500.0	4619500.0	175.19	175.19
RE DISCCART	460000.0	4619500.0	175.19	175.19
RE DISCCART	449000.0	4620000.0	178.09	178.09
RE DISCCART	449500.0	4620000.0	181.25	181.25
RE DISCCART	450000.0	4620000.0	182.61	182.61
RE DISCCART	450500.0	4620000.0	178.48	178.48
RE DISCCART	451000.0	4620000.0	178.88	178.88
RE DISCCART	451500.0	4620000.0	178.53	178.53
RE DISCCART	452000.0	4620000.0	178.87	178.87
RE DISCCART	452500.0	4620000.0	179.53	179.53

Phosphorus_2012_OTHER.DTA

RE DISCCART 453000.0 4620000.0 178.93 178.93
RE DISCCART 453500.0 4620000.0 184.25 184.25
RE DISCCART 454000.0 4620000.0 179.77 179.77
RE DISCCART 454500.0 4620000.0 179.69 179.69
RE DISCCART 455000.0 4620000.0 179.43 179.43
RE DISCCART 455500.0 4620000.0 175.19 175.19
RE DISCCART 456000.0 4620000.0 182.51 182.51
RE DISCCART 456500.0 4620000.0 175.19 175.19
RE DISCCART 457000.0 4620000.0 175.19 175.19
RE DISCCART 457500.0 4620000.0 175.19 175.19
RE DISCCART 458000.0 4620000.0 175.19 175.19
RE DISCCART 458500.0 4620000.0 175.19 175.19
RE DISCCART 459000.0 4620000.0 175.19 175.19
RE DISCCART 459500.0 4620000.0 175.19 175.19
RE DISCCART 460000.0 4620000.0 175.19 175.19
RE DISCCART 449000.0 4620500.0 179.94 179.94
RE DISCCART 449500.0 4620500.0 180.73 180.73
RE DISCCART 450000.0 4620500.0 181.21 181.21
RE DISCCART 450500.0 4620500.0 179.86 179.86
RE DISCCART 451000.0 4620500.0 178.19 178.19
RE DISCCART 451500.0 4620500.0 178.78 178.78
RE DISCCART 452000.0 4620500.0 180.45 180.45
RE DISCCART 452500.0 4620500.0 182.02 182.02
RE DISCCART 453000.0 4620500.0 184.42 184.42
RE DISCCART 453500.0 4620500.0 180.54 180.54
RE DISCCART 454000.0 4620500.0 179.79 179.79
RE DISCCART 454500.0 4620500.0 178.85 178.85
RE DISCCART 455000.0 4620500.0 178.95 178.95
RE DISCCART 455500.0 4620500.0 180.39 180.39
RE DISCCART 456000.0 4620500.0 176.82 180.36
RE DISCCART 456500.0 4620500.0 175.19 175.19
RE DISCCART 457000.0 4620500.0 175.19 175.19
RE DISCCART 457500.0 4620500.0 175.19 175.19
RE DISCCART 458000.0 4620500.0 175.19 175.19
RE DISCCART 458500.0 4620500.0 175.19 175.19
RE DISCCART 459000.0 4620500.0 175.19 175.19
RE DISCCART 459500.0 4620500.0 175.19 175.19
RE DISCCART 460000.0 4620500.0 175.19 175.19
RE FINISHED

ME STARTING
ME SURFFILE "MDW_DVN_2012.SFC" FREE
ME PROFFILE "MDW_DVN_2012.PFL" FREE
ME SURFDATA 14819 2012 "CHICAGO MIDWAY INTL ARPT, IL"
ME UAIRDATA 94982 2012 "DAVENPORT MUNICIPAL AIRPT, IA"
ME PROFBASE 175 METERS
ME FINISHED

Phosphorus_2012_OTHER.DTA

OU STARTING
OU RECTABLE 24 FIRST
OU PLOTFILE 24 ALL FIRST "Phosphorus_2012_OTHER.GRF" 31
OU PLOTFILE ANNUAL ALL "Phosphorus_2012_OTHER.GRF" 31
OU SUMMFILE "Phosphorus_2012_OTHER.SUM"
OU FINISHED

Phosphorus_2013_OTHER.DTA

 BEEST Express Run *****
 **BEE-Line Software: (Version 12.01) data input file
 ** Model: AERMOD File Creation Date: 2/7/2020 Time: 1:35:37 PM
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CO STARTING
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SO STARTING
 SO ELEVUNIT METERS
 SO LOCATION RTO POINT 454280.579 4614874.64 178.19
 SO SRCPARAM RTO 0.0153087424873 12.4968 314.26 12.914194 1.8288
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO XBADJ RTO 6.90 3.87 0.73 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 -40.62 -44.68 -47.38
 SO XBADJ RTO -48.63 -48.42 -46.73 -47.44 -47.36 -45.83
 SO XBADJ RTO -42.92 -38.70 -33.30 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 1.61 4.89 8.03
 SO XBADJ RTO 10.92 13.47 15.62 14.39 12.24 9.72
 SO YBADJ RTO 21.11 24.78 27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 24.91 21.29 17.01
 SO YBADJ RTO 12.05 5.52 -1.19 -6.80 -11.98 -16.80
 SO YBADJ RTO -21.11 -24.78 -27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 -24.91 -21.29 -17.01
 SO YBADJ RTO -12.05 -5.52 1.19 6.80 11.98 16.80

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S0 LOCATION V1 VOLUME	454297.692	4614928.02	178.19				
S0 SRCPARAM V1	3.950033555E-05	0.6096	0.70884288	0.5670804			
S0 LOCATION V2 VOLUME	454259.682	4614907.47	178.19				
S0 SRCPARAM V2	4.762719885E-06	9.144	5.95423752	8.5060536			
S0 LOCATION V3 VOLUME	454235.875	4614892.42	178.19				
S0 SRCPARAM V3	1.469135287E-05	0.6096	0.42528744	0.5670804			
S0 LOCATION V4 VOLUME	454226.98	4614887.08	178.19				
S0 SRCPARAM V4	1.259474814E-06	3.81	3.54418392	3.54418392			
S0 LOCATION V5 VOLUME	454218.08	4614878.54	178.19				
S0 SRCPARAM V5	1.974386788E-05	3.81	1.41768576	3.54418392			
S0 LOCATION V6 VOLUME	454225.909	4614867.5	178.19				
S0 SRCPARAM V6	2.455698692E-05	5.334	4.2530268	4.96186968			
S0 LOCATION V7 VOLUME	454197.08	4614871.06	178.19				
S0 SRCPARAM V7	1.530874249E-05	4.572	1.41768576	4.2530268			
S0 LOCATION V8 VOLUME	454193.521	4614874.62	178.19				
S0 SRCPARAM V8	2.561536912E-06	4.572	1.41768576	4.2530268			
S0 LOCATION V9 VOLUME	454213.452	4614885.66	178.19				
S0 SRCPARAM V9	4.837058634E-06	3.81	1.7721072	3.54418392			
S0 LOCATION V10 VOLUME	454173.38	4614858.04	178.19				
S0 SRCPARAM V10	2.53129742E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION V11 VOLUME	454170.92	4614872.75	178.19				
S0 SRCPARAM V11	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V12 VOLUME	454179.64	4614840.61	178.19				
S0 SRCPARAM V12	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V13 VOLUME	454094.65	4614815.89	177.72				
S0 SRCPARAM V13	5.954659835E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION VN1 VOLUME	454294.913	4614781.55	178.19				
S0 SRCPARAM VN1	2.286861532E-04	6.096	7.08836784	5.67071256			
S0 LOCATION VN2 VOLUME	454328.547	4614797.57	178.19				
S0 SRCPARAM VN2	6.349033201E-05	6.096	7.08836784	5.67071256			
S0 LOCATION VN3 VOLUME	454345.365	4614834.4	178.19				
S0 SRCPARAM VN3	1.300298127E-04	3.81	7.08836784	3.54418392			
S0 LOCATION VN4 VOLUME	454300.519	4614814.38	178.19				
S0 SRCPARAM VN4	5.601865769E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN5 VOLUME	454338.158	4614842.41	178.19				
S0 SRCPARAM VN5	3.682918049E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN6 VOLUME	454383.003	4614853.62	178.19				
S0 SRCPARAM VN6	5.184812785E-05	3.81	2.83534104	3.54418392			
S0 LOCATION DC1 POINT	454378.438	4614823.04	178.19				
S0 SRCPARAM DC1	6.052938182E-05	14.3256	295.37	19.404171	0.6096		
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDWID DC1		66.64	68.61	68.49	66.29	62.07	55.97
S0 BUILDWID DC1		60.44	65.23	68.04	68.78	67.44	64.04

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SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDWID DC1	66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1	60.44	65.23	68.04	68.78	67.44	64.04
SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO XBADJ DC1	-55.37	-56.48	-55.86	-53.55	-49.61	-44.17
SO XBADJ DC1	-45.52	-46.90	-46.86	-45.39	-42.55	-38.41
SO XBADJ DC1	-33.11	-26.80	-19.67	-18.08	-17.02	-15.45
SO XBADJ DC1	-13.41	-10.96	-8.18	-5.15	-1.96	1.29
SO XBADJ DC1	-3.62	-9.86	-15.79	-21.25	-26.06	-30.08
SO XBADJ DC1	-33.18	-35.28	-36.30	-42.36	-48.21	-52.59
SO YBADJ DC1	12.07	8.24	4.17	-0.04	-4.24	-8.32
SO YBADJ DC1	-12.14	-15.59	-18.57	-20.98	-22.76	-23.84
SO YBADJ DC1	-24.20	-23.83	-22.73	-20.95	-18.52	-15.53
SO YBADJ DC1	-12.07	-8.24	-4.17	0.04	4.24	8.32
SO YBADJ DC1	12.14	15.59	18.57	20.98	22.76	23.84
SO YBADJ DC1	24.20	23.83	22.73	20.95	18.52	15.53
SO LOCATION AB_0001 VOLUME	454569.7	4615033.84	178.19			
SO SRCPARAM AB_0001	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0002 VOLUME	454557.7	4615033.84	178.19			
SO SRCPARAM AB_0002	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0003 VOLUME	454545.7	4615033.84	178.19			
SO SRCPARAM AB_0003	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0004 VOLUME	454533.7	4615033.84	178.19			
SO SRCPARAM AB_0004	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0005 VOLUME	454521.7	4615033.84	178.19			
SO SRCPARAM AB_0005	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0006 VOLUME	454509.7	4615033.84	178.19			
SO SRCPARAM AB_0006	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0007 VOLUME	454497.7	4615033.84	178.19			
SO SRCPARAM AB_0007	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0008 VOLUME	454485.7	4615033.84	178.19			
SO SRCPARAM AB_0008	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0009 VOLUME	454473.7	4615033.84	178.19			
SO SRCPARAM AB_0009	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0010 VOLUME	454461.7	4615033.84	178.19			
SO SRCPARAM AB_0010	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION CDE_0001 VOLUME	454449.996	4615030.05	178.19			
SO SRCPARAM CDE_0001	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0002 VOLUME	454440.148	4615023.19	178.19			
SO SRCPARAM CDE_0002	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0003 VOLUME	454430.299	4615016.34	178.19			
SO SRCPARAM CDE_0003	1.272326598E-06	2.59	5.58	2.41		

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SO	LOCATION	CDE_0004	VOLUME	454420.675	4615009.19	178.19
SO	SRCPARAM	CDE_0004		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0005	VOLUME	454411.484	4615001.47	178.19
SO	SRCPARAM	CDE_0005		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0006	VOLUME	454402.292	4614993.76	178.19
SO	SRCPARAM	CDE_0006		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0007	VOLUME	454394.404	4614984.73	178.19
SO	SRCPARAM	CDE_0007		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0008	VOLUME	454386.594	4614975.62	178.19
SO	SRCPARAM	CDE_0008		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0009	VOLUME	454380.888	4614965.12	178.19
SO	SRCPARAM	CDE_0009		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0010	VOLUME	454375.67	4614954.32	178.19
SO	SRCPARAM	CDE_0010		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0011	VOLUME	454370.542	4614943.47	178.19
SO	SRCPARAM	CDE_0011		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0012	VOLUME	454366.572	4614932.28	178.19
SO	SRCPARAM	CDE_0012		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0013	VOLUME	454364.926	4614920.39	178.19
SO	SRCPARAM	CDE_0013		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0014	VOLUME	454361.686	4614909.6	178.19
SO	SRCPARAM	CDE_0014		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0015	VOLUME	454351.165	4614903.83	178.19
SO	SRCPARAM	CDE_0015		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0016	VOLUME	454340.644	4614898.06	178.19
SO	SRCPARAM	CDE_0016		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0017	VOLUME	454330.123	4614892.29	178.19
SO	SRCPARAM	CDE_0017		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0018	VOLUME	454319.602	4614886.52	178.19
SO	SRCPARAM	CDE_0018		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0019	VOLUME	454309.08	4614880.75	178.19
SO	SRCPARAM	CDE_0019		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0020	VOLUME	454298.559	4614874.97	178.19
SO	SRCPARAM	CDE_0020		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0021	VOLUME	454288.038	4614869.2	178.19
SO	SRCPARAM	CDE_0021		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0022	VOLUME	454277.517	4614863.43	178.19
SO	SRCPARAM	CDE_0022		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0023	VOLUME	454266.996	4614857.66	178.19
SO	SRCPARAM	CDE_0023		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0024	VOLUME	454256.475	4614851.89	178.19
SO	SRCPARAM	CDE_0024		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0025	VOLUME	454245.953	4614846.12	178.19
SO	SRCPARAM	CDE_0025		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0026	VOLUME	454235.432	4614840.35	178.19
SO	SRCPARAM	CDE_0026		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0027	VOLUME	454224.911	4614834.58	178.19
SO	SRCPARAM	CDE_0027		2.643561532E-06	2.59	5.58 2.41

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SO LOCATION CDE_0028 VOLUME 454214.39 4614828.81 178.19
SO SRCPARAM CDE_0028 2.643561532E-06 2.59 5.58 2.41
SO LOCATION CDE_0029 VOLUME 454203.869 4614823.03 178.19
SO SRCPARAM CDE_0029 2.643561532E-06 2.59 5.58 2.41
SO LOCATION I_0001 VOLUME 454452.749 4615028.45 178.19
SO SRCPARAM I_0001 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0002 VOLUME 454447.62 4615017.6 178.19
SO SRCPARAM I_0002 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0003 VOLUME 454442.491 4615006.75 178.19
SO SRCPARAM I_0003 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0004 VOLUME 454437.363 4614995.9 178.19
SO SRCPARAM I_0004 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0005 VOLUME 454432.234 4614985.05 178.19
SO SRCPARAM I_0005 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0006 VOLUME 454427.105 4614974.21 178.19
SO SRCPARAM I_0006 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0007 VOLUME 454421.976 4614963.36 178.19
SO SRCPARAM I_0007 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0008 VOLUME 454416.847 4614952.51 178.19
SO SRCPARAM I_0008 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0009 VOLUME 454411.718 4614941.66 178.19
SO SRCPARAM I_0009 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0010 VOLUME 454406.589 4614930.81 178.19
SO SRCPARAM I_0010 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0011 VOLUME 454401.46 4614919.96 178.19
SO SRCPARAM I_0011 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0012 VOLUME 454396.332 4614909.11 178.19
SO SRCPARAM I_0012 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0013 VOLUME 454391.203 4614898.26 178.19
SO SRCPARAM I_0013 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0014 VOLUME 454386.074 4614887.42 178.19
SO SRCPARAM I_0014 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0015 VOLUME 454380.945 4614876.57 178.19
SO SRCPARAM I_0015 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0016 VOLUME 454375.816 4614865.72 178.19
SO SRCPARAM I_0016 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0017 VOLUME 454370.687 4614854.87 178.19
SO SRCPARAM I_0017 2.763889508E-07 2.59 5.58 2.41
SO LOCATION H_0001 VOLUME 454569.74 4615048.61 178.19
SO SRCPARAM H_0001 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0002 VOLUME 454557.74 4615048.58 178.19
SO SRCPARAM H_0002 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0003 VOLUME 454545.74 4615048.55 178.19
SO SRCPARAM H_0003 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0004 VOLUME 454533.74 4615048.51 178.19
SO SRCPARAM H_0004 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0005 VOLUME 454521.74 4615048.48 178.19
SO SRCPARAM H_0005 1.777830095E-06 2.59 5.58 2.41

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SO LOCATION H_0006 VOLUME 454509.74 4615048.45 178.19
SO SRCPARAM H_0006 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0007 VOLUME 454497.74 4615048.41 178.19
SO SRCPARAM H_0007 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0008 VOLUME 454485.74 4615048.38 178.19
SO SRCPARAM H_0008 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0009 VOLUME 454473.826 4615049.52 178.19
SO SRCPARAM H_0009 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0010 VOLUME 454462.408 4615052.96 178.19
SO SRCPARAM H_0010 1.777830095E-06 2.59 5.58 2.41
SO LOCATION FG_0001 VOLUME 454450.378 4615031.43 178.19
SO SRCPARAM FG_0001 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0002 VOLUME 454439.841 4615025.69 178.19
SO SRCPARAM FG_0002 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0003 VOLUME 454429.304 4615019.95 178.19
SO SRCPARAM FG_0003 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0004 VOLUME 454418.767 4615014.21 178.19
SO SRCPARAM FG_0004 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0005 VOLUME 454408.23 4615008.46 178.19
SO SRCPARAM FG_0005 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0006 VOLUME 454397.693 4615002.72 178.19
SO SRCPARAM FG_0006 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0007 VOLUME 454387.156 4614996.98 178.19
SO SRCPARAM FG_0007 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0008 VOLUME 454376.619 4614991.24 178.19
SO SRCPARAM FG_0008 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0009 VOLUME 454366.082 4614985.5 178.19
SO SRCPARAM FG_0009 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0010 VOLUME 454355.545 4614979.75 178.19
SO SRCPARAM FG_0010 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0011 VOLUME 454345.008 4614974.01 178.19
SO SRCPARAM FG_0011 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0012 VOLUME 454334.471 4614968.27 178.19
SO SRCPARAM FG_0012 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0013 VOLUME 454323.934 4614962.53 178.19
SO SRCPARAM FG_0013 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0014 VOLUME 454313.397 4614956.79 178.19
SO SRCPARAM FG_0014 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0015 VOLUME 454301.708 4614955.36 178.19
SO SRCPARAM FG_0015 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0016 VOLUME 454289.711 4614955.09 178.19
SO SRCPARAM FG_0016 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0017 VOLUME 454277.714 4614954.82 178.19
SO SRCPARAM FG_0017 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0018 VOLUME 454266.978 4614949.96 178.19
SO SRCPARAM FG_0018 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0019 VOLUME 454256.532 4614944.06 178.19
SO SRCPARAM FG_0019 2.674557011E-06 2.59 5.58 2.41

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SO LOCATION FG_0020 VOLUME 454246.087 4614938.15 178.19
SO SRCPARAM FG_0020 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0021 VOLUME 454235.642 4614932.24 178.19
SO SRCPARAM FG_0021 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0022 VOLUME 454225.196 4614926.34 178.19
SO SRCPARAM FG_0022 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0023 VOLUME 454214.751 4614920.43 178.19
SO SRCPARAM FG_0023 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0024 VOLUME 454204.305 4614914.52 178.19
SO SRCPARAM FG_0024 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0025 VOLUME 454193.86 4614908.61 178.19
SO SRCPARAM FG_0025 2.674557011E-06 2.59 5.58 2.41
SO EMISFACT RTO HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1
SO EMISFACT RTO HRDOW 1 1 1 1 1 0
0 0 0 0 0
SO EMISFACT V2 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V2 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V3 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V3 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V5 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V5 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V7 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V7 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V8 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V8 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V1 HRDOW 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 1 1 1 1 1 1 1
1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 1 1 1 1 1
SO EMISFACT V1 HRDOW 1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
SO EMISFACT V4 HRDOW 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 1 1 1 1 1 1 1
1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 1 1 1 1 1
SO EMISFACT V4 HRDOW 1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000

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SO EMISFACT CDE_0026 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT CDE_0027 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT CDE_0027 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT CDE_0028 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT CDE_0028 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT CDE_0029 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT CDE_0029 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT I_0001 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0001 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0002 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0002 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0003 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0003 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0004 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0004 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0005 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0005 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0006 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0006 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0007 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0007 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0008 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1
SO EMISFACT I_0008 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0
SO EMISFACT I_0009 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1

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SO EMISFACT FG_0018 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0019 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0019 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0020 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0020 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0021 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0021 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0022 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0022 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0023 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0023 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0024 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0024 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT FG_0025 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT FG_0025 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT V6 HRDOW 0.1778 0.1778 0.1778 0.1778 0.1778 1
 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1
 SO EMISFACT V6 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
 SO EMISFACT V13 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1
 SO EMISFACT V13 HRDOW 1 1 1 0
 0 0 0 0 0
 SO EMISFACT V10 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1.7456 1.7456 1.7456 1.7456 0 0
 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
 SO EMISFACT V10 HRDOW 1 1 1 1.7456 1.7456 0
 0 0 0 0 0 0 0 0 0 0
 SO SRCGROUP ALL
 SO FINISHED

RE STARTING
 RE ELEVUNIT METERS

Phosphorus_2013_OTHER.DTA

RE DISCCART	454084.4	4615065.4	176.19	178.19
RE DISCCART	454083.3	4615039.8	176.07	178.19
RE DISCCART	454082.2	4615014.1	175.94	178.19
RE DISCCART	454085.1	4614964.6	176.36	178.19
RE DISCCART	454088.0	4614915.0	176.78	176.78
RE DISCCART	454091.0	4614865.5	177.21	177.21
RE DISCCART	454093.9	4614816.0	177.63	177.63
RE DISCCART	454096.8	4614766.4	177.99	177.99
RE DISCCART	454099.7	4614716.9	178.2	178.2
RE DISCCART	454102.6	4614667.3	176.81	176.81
RE DISCCART	454105.5	4614617.8	176.3	178.19
RE DISCCART	454108.5	4614568.3	176.73	178.19
RE DISCCART	454111.4	4614518.7	177.14	177.14
RE DISCCART	454114.3	4614469.2	177.56	178.19
RE DISCCART	454107.8	4614425.2	176.75	176.75
RE DISCCART	454101.3	4614381.1	178.05	178.05
RE DISCCART	454094.7	4614337.1	177.87	177.87
RE DISCCART	454088.2	4614293.0	177.6	178.57
RE DISCCART	454081.7	4614249.0	176.52	178.19
RE DISCCART	454082.2	4614201.8	177.25	177.25
RE DISCCART	454082.8	4614154.7	177.44	177.44
RE DISCCART	454121.4	4614157.8	178.19	178.19
RE DISCCART	454160.0	4614160.9	178.19	178.19
RE DISCCART	454191.3	4614179.4	178.19	178.19
RE DISCCART	454222.7	4614198.0	178.19	178.19
RE DISCCART	454254.0	4614216.5	178.19	178.19
RE DISCCART	454253.2	4614226.3	178.19	178.19
RE DISCCART	454296.0	4614249.3	178.19	178.19
RE DISCCART	454338.8	4614272.3	178.19	178.19
RE DISCCART	454381.7	4614295.3	178.19	178.19
RE DISCCART	454424.5	4614318.3	178.19	178.19
RE DISCCART	454467.3	4614341.4	178.19	178.19
RE DISCCART	454510.2	4614364.4	178.19	178.19
RE DISCCART	454553.0	4614387.4	178.19	178.19
RE DISCCART	454595.8	4614410.4	178.19	178.19
RE DISCCART	454595.8	4614459.2	178.19	178.19
RE DISCCART	454595.8	4614507.9	178.19	178.19
RE DISCCART	454595.8	4614556.7	178.19	178.19
RE DISCCART	454595.8	4614605.5	178.19	178.19
RE DISCCART	454595.8	4614654.3	178.19	178.19
RE DISCCART	454595.8	4614703.0	178.19	178.19
RE DISCCART	454595.8	4614751.8	178.19	178.19
RE DISCCART	454595.8	4614800.6	178.19	178.19
RE DISCCART	454595.8	4614849.3	178.19	178.19
RE DISCCART	454595.8	4614898.1	178.19	178.19
RE DISCCART	454595.8	4614946.9	178.19	178.19
RE DISCCART	454595.8	4614995.6	178.19	178.19
RE DISCCART	454595.8	4615044.4	178.19	178.19

Phosphorus_2013_OTHER.DTA

RE DISCCART	454595.8	4615093.2	178.19	178.19
RE DISCCART	454595.8	4615142.0	178.19	178.19
RE DISCCART	454595.8	4615190.7	178.19	178.19
RE DISCCART	454595.8	4615239.5	178.19	178.19
RE DISCCART	454551.9	4615219.2	178.19	178.19
RE DISCCART	454508.0	4615199.0	178.19	178.19
RE DISCCART	454484.5	4615239.5	178.19	178.19
RE DISCCART	454461.1	4615279.9	178.19	178.19
RE DISCCART	454413.6	4615286.6	178.19	178.19
RE DISCCART	454376.8	4615266.9	178.19	178.19
RE DISCCART	454340.0	4615247.2	178.19	178.19
RE DISCCART	454303.1	4615227.5	178.19	178.19
RE DISCCART	454266.3	4615207.8	178.19	178.19
RE DISCCART	454229.5	4615188.1	178.19	178.19
RE DISCCART	454251.0	4615155.9	178.19	178.19
RE DISCCART	454209.3	4615133.3	178.19	178.19
RE DISCCART	454167.7	4615110.7	178.19	178.19
RE DISCCART	454126.1	4615088.0	178.19	178.19
RE DISCCART	452000.0	4612100.0	178.89	225.29
RE DISCCART	452100.0	4612100.0	179.74	225.23
RE DISCCART	452200.0	4612100.0	183.31	183.31
RE DISCCART	452300.0	4612100.0	175.19	186.65
RE DISCCART	452400.0	4612100.0	185.71	185.71
RE DISCCART	452500.0	4612100.0	181.89	181.89
RE DISCCART	452600.0	4612100.0	179.36	179.36
RE DISCCART	452700.0	4612100.0	178.43	178.43
RE DISCCART	452800.0	4612100.0	178.43	178.43
RE DISCCART	452900.0	4612100.0	178.42	178.42
RE DISCCART	453000.0	4612100.0	178.44	178.44
RE DISCCART	453100.0	4612100.0	178.62	178.62
RE DISCCART	453200.0	4612100.0	178.43	178.43
RE DISCCART	453300.0	4612100.0	178.39	178.39
RE DISCCART	453400.0	4612100.0	178.41	178.41
RE DISCCART	453500.0	4612100.0	178.39	178.39
RE DISCCART	453600.0	4612100.0	178.39	178.39
RE DISCCART	453700.0	4612100.0	178.39	178.39
RE DISCCART	453800.0	4612100.0	178.39	178.39
RE DISCCART	453900.0	4612100.0	178.53	178.53
RE DISCCART	454000.0	4612100.0	180.08	180.08
RE DISCCART	454100.0	4612100.0	179.12	179.12
RE DISCCART	454200.0	4612100.0	178.21	178.21
RE DISCCART	454300.0	4612100.0	178.19	178.19
RE DISCCART	454400.0	4612100.0	178.19	178.19
RE DISCCART	454500.0	4612100.0	178.19	178.19
RE DISCCART	454600.0	4612100.0	178.21	178.21
RE DISCCART	454700.0	4612100.0	181.09	181.09
RE DISCCART	454800.0	4612100.0	183.49	183.49
RE DISCCART	454900.0	4612100.0	178.44	178.44

Phosphorus_2013_OTHER.DTA

RE DISCCART	455000.0	4612100.0	178.19	178.19
RE DISCCART	455100.0	4612100.0	178.19	178.19
RE DISCCART	455200.0	4612100.0	178.22	178.22
RE DISCCART	455300.0	4612100.0	177.85	177.85
RE DISCCART	455400.0	4612100.0	177.59	177.59
RE DISCCART	455500.0	4612100.0	177.74	177.74
RE DISCCART	455600.0	4612100.0	178.34	178.34
RE DISCCART	455700.0	4612100.0	177.59	177.59
RE DISCCART	455800.0	4612100.0	177.6	177.6
RE DISCCART	455900.0	4612100.0	177.71	177.71
RE DISCCART	456000.0	4612100.0	178.24	178.24
RE DISCCART	456100.0	4612100.0	177.15	177.15
RE DISCCART	456200.0	4612100.0	177.15	177.15
RE DISCCART	456300.0	4612100.0	177.98	177.98
RE DISCCART	456400.0	4612100.0	178.57	178.57
RE DISCCART	456500.0	4612100.0	178.69	178.69
RE DISCCART	456600.0	4612100.0	178.42	178.42
RE DISCCART	452000.0	4612200.0	179.59	179.59
RE DISCCART	452100.0	4612200.0	180.09	180.09
RE DISCCART	452200.0	4612200.0	179.98	179.98
RE DISCCART	452300.0	4612200.0	175.2	185.77
RE DISCCART	452400.0	4612200.0	175.22	186.65
RE DISCCART	452500.0	4612200.0	178.35	178.35
RE DISCCART	452600.0	4612200.0	178.65	178.65
RE DISCCART	452700.0	4612200.0	178.69	178.69
RE DISCCART	452800.0	4612200.0	178.49	178.49
RE DISCCART	452900.0	4612200.0	178.39	178.39
RE DISCCART	453000.0	4612200.0	178.39	178.39
RE DISCCART	453100.0	4612200.0	178.39	178.39
RE DISCCART	453200.0	4612200.0	178.39	178.39
RE DISCCART	453300.0	4612200.0	178.39	178.39
RE DISCCART	453400.0	4612200.0	178.39	178.39
RE DISCCART	453500.0	4612200.0	178.4	178.4
RE DISCCART	453600.0	4612200.0	178.39	178.39
RE DISCCART	453700.0	4612200.0	178.39	178.39
RE DISCCART	453800.0	4612200.0	178.39	178.39
RE DISCCART	453900.0	4612200.0	178.69	178.69
RE DISCCART	454000.0	4612200.0	179.34	179.34
RE DISCCART	454100.0	4612200.0	179.1	179.1
RE DISCCART	454200.0	4612200.0	178.47	178.47
RE DISCCART	454300.0	4612200.0	178.19	178.19
RE DISCCART	454400.0	4612200.0	178.19	178.19
RE DISCCART	454500.0	4612200.0	178.19	178.19
RE DISCCART	454600.0	4612200.0	182.05	182.05
RE DISCCART	454700.0	4612200.0	183.94	183.94
RE DISCCART	454800.0	4612200.0	184.27	184.27
RE DISCCART	454900.0	4612200.0	180.97	180.97
RE DISCCART	455000.0	4612200.0	178.26	178.26

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RE DISCCART	455100.0	4612200.0	178.19	178.19
RE DISCCART	455200.0	4612200.0	177.87	177.87
RE DISCCART	455300.0	4612200.0	177.7	177.7
RE DISCCART	455400.0	4612200.0	177.59	177.59
RE DISCCART	455500.0	4612200.0	177.59	177.59
RE DISCCART	455600.0	4612200.0	177.59	177.59
RE DISCCART	455700.0	4612200.0	177.59	177.59
RE DISCCART	455800.0	4612200.0	177.59	177.59
RE DISCCART	455900.0	4612200.0	177.59	177.59
RE DISCCART	456000.0	4612200.0	177.59	177.59
RE DISCCART	456100.0	4612200.0	177.12	177.12
RE DISCCART	456200.0	4612200.0	177.38	177.38
RE DISCCART	456300.0	4612200.0	178.25	178.25
RE DISCCART	456400.0	4612200.0	178.12	178.12
RE DISCCART	456500.0	4612200.0	178.36	178.36
RE DISCCART	456600.0	4612200.0	178.45	178.45
RE DISCCART	452000.0	4612300.0	179.2	179.2
RE DISCCART	452100.0	4612300.0	179.09	179.09
RE DISCCART	452200.0	4612300.0	178.7	178.7
RE DISCCART	452300.0	4612300.0	175.19	175.19
RE DISCCART	452400.0	4612300.0	175.19	175.19
RE DISCCART	452500.0	4612300.0	175.98	175.98
RE DISCCART	452600.0	4612300.0	178.29	178.29
RE DISCCART	452700.0	4612300.0	178.63	178.63
RE DISCCART	452800.0	4612300.0	178.65	178.65
RE DISCCART	452900.0	4612300.0	178.42	178.42
RE DISCCART	453000.0	4612300.0	178.39	178.39
RE DISCCART	453100.0	4612300.0	178.39	178.39
RE DISCCART	453200.0	4612300.0	178.39	178.39
RE DISCCART	453300.0	4612300.0	178.39	178.39
RE DISCCART	453400.0	4612300.0	178.55	178.55
RE DISCCART	453500.0	4612300.0	178.49	178.49
RE DISCCART	453600.0	4612300.0	178.39	178.39
RE DISCCART	453700.0	4612300.0	178.39	178.39
RE DISCCART	453800.0	4612300.0	178.68	178.68
RE DISCCART	453900.0	4612300.0	178.86	178.86
RE DISCCART	454000.0	4612300.0	179.04	179.04
RE DISCCART	454100.0	4612300.0	178.92	178.92
RE DISCCART	454200.0	4612300.0	178.38	178.38
RE DISCCART	454300.0	4612300.0	178.19	178.19
RE DISCCART	454400.0	4612300.0	177.9	177.9
RE DISCCART	454500.0	4612300.0	178.19	178.19
RE DISCCART	454600.0	4612300.0	184.17	184.17
RE DISCCART	454700.0	4612300.0	182.35	182.35
RE DISCCART	454800.0	4612300.0	184.24	184.24
RE DISCCART	454900.0	4612300.0	182.36	182.36
RE DISCCART	455000.0	4612300.0	178.21	178.21
RE DISCCART	455100.0	4612300.0	178.19	178.19

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RE DISCCART	455200.0	4612300.0	177.59	177.59
RE DISCCART	455300.0	4612300.0	177.59	177.59
RE DISCCART	455400.0	4612300.0	177.59	177.59
RE DISCCART	455500.0	4612300.0	177.59	177.59
RE DISCCART	455600.0	4612300.0	177.59	177.59
RE DISCCART	455700.0	4612300.0	177.59	177.59
RE DISCCART	455800.0	4612300.0	177.59	177.59
RE DISCCART	455900.0	4612300.0	177.59	177.59
RE DISCCART	456000.0	4612300.0	177.55	177.55
RE DISCCART	456100.0	4612300.0	177.09	177.09
RE DISCCART	456200.0	4612300.0	177.09	177.09
RE DISCCART	456300.0	4612300.0	178.18	178.18
RE DISCCART	456400.0	4612300.0	182.91	182.91
RE DISCCART	456500.0	4612300.0	182.22	182.22
RE DISCCART	456600.0	4612300.0	177.65	177.65
RE DISCCART	452000.0	4612400.0	178.48	178.48
RE DISCCART	452100.0	4612400.0	177.93	177.93
RE DISCCART	452200.0	4612400.0	175.32	175.32
RE DISCCART	452300.0	4612400.0	175.19	175.19
RE DISCCART	452400.0	4612400.0	175.19	175.19
RE DISCCART	452500.0	4612400.0	175.19	175.19
RE DISCCART	452600.0	4612400.0	176.76	178.76
RE DISCCART	452700.0	4612400.0	178.33	178.33
RE DISCCART	452800.0	4612400.0	178.55	178.55
RE DISCCART	452900.0	4612400.0	178.65	178.65
RE DISCCART	453000.0	4612400.0	178.39	178.39
RE DISCCART	453100.0	4612400.0	178.39	178.39
RE DISCCART	453200.0	4612400.0	178.49	178.49
RE DISCCART	453300.0	4612400.0	178.66	178.66
RE DISCCART	453400.0	4612400.0	178.66	178.66
RE DISCCART	453500.0	4612400.0	178.69	178.69
RE DISCCART	453600.0	4612400.0	178.57	178.57
RE DISCCART	453700.0	4612400.0	178.53	178.53
RE DISCCART	453800.0	4612400.0	178.84	178.84
RE DISCCART	453900.0	4612400.0	178.89	178.89
RE DISCCART	454000.0	4612400.0	178.87	178.87
RE DISCCART	454100.0	4612400.0	178.84	178.84
RE DISCCART	454200.0	4612400.0	178.24	178.24
RE DISCCART	454300.0	4612400.0	178.19	178.19
RE DISCCART	454400.0	4612400.0	176.93	176.93
RE DISCCART	454500.0	4612400.0	178.19	178.19
RE DISCCART	454600.0	4612400.0	184.29	184.29
RE DISCCART	454700.0	4612400.0	182.42	182.42
RE DISCCART	454800.0	4612400.0	182.87	182.87
RE DISCCART	454900.0	4612400.0	182.44	182.44
RE DISCCART	455000.0	4612400.0	178.19	178.19
RE DISCCART	455100.0	4612400.0	178.2	178.2
RE DISCCART	455200.0	4612400.0	177.62	177.62

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RE DISCCART	455300.0	4612400.0	177.59	177.59
RE DISCCART	455400.0	4612400.0	177.59	177.59
RE DISCCART	455500.0	4612400.0	177.59	177.59
RE DISCCART	455600.0	4612400.0	177.59	177.59
RE DISCCART	455700.0	4612400.0	177.59	177.59
RE DISCCART	455800.0	4612400.0	178.04	178.04
RE DISCCART	455900.0	4612400.0	177.59	177.59
RE DISCCART	456000.0	4612400.0	177.59	177.59
RE DISCCART	456100.0	4612400.0	177.09	177.09
RE DISCCART	456200.0	4612400.0	177.09	177.09
RE DISCCART	456300.0	4612400.0	177.21	177.21
RE DISCCART	456400.0	4612400.0	179.08	179.08
RE DISCCART	456500.0	4612400.0	177.09	184.88
RE DISCCART	456600.0	4612400.0	177.09	177.09
RE DISCCART	452000.0	4612500.0	175.19	175.19
RE DISCCART	452100.0	4612500.0	175.19	175.19
RE DISCCART	452200.0	4612500.0	175.19	175.19
RE DISCCART	452300.0	4612500.0	175.19	175.19
RE DISCCART	452400.0	4612500.0	175.19	175.19
RE DISCCART	452500.0	4612500.0	175.19	175.19
RE DISCCART	452600.0	4612500.0	175.19	175.19
RE DISCCART	452700.0	4612500.0	175.19	175.19
RE DISCCART	452800.0	4612500.0	176.4	176.4
RE DISCCART	452900.0	4612500.0	178.81	178.81
RE DISCCART	453000.0	4612500.0	178.41	178.41
RE DISCCART	453100.0	4612500.0	178.43	178.43
RE DISCCART	453200.0	4612500.0	178.78	178.78
RE DISCCART	453300.0	4612500.0	178.88	178.88
RE DISCCART	453400.0	4612500.0	178.89	178.89
RE DISCCART	453500.0	4612500.0	178.88	178.88
RE DISCCART	453600.0	4612500.0	178.83	178.83
RE DISCCART	453700.0	4612500.0	178.86	178.86
RE DISCCART	453800.0	4612500.0	178.89	178.89
RE DISCCART	453900.0	4612500.0	178.79	178.79
RE DISCCART	454000.0	4612500.0	179.09	179.09
RE DISCCART	454100.0	4612500.0	179.7	179.7
RE DISCCART	454200.0	4612500.0	178.44	178.44
RE DISCCART	454300.0	4612500.0	178.19	178.19
RE DISCCART	454400.0	4612500.0	177.42	177.42
RE DISCCART	454500.0	4612500.0	178.2	178.2
RE DISCCART	454600.0	4612500.0	184.46	184.46
RE DISCCART	454700.0	4612500.0	182.06	182.06
RE DISCCART	454800.0	4612500.0	183.02	183.02
RE DISCCART	454900.0	4612500.0	182.32	182.32
RE DISCCART	455000.0	4612500.0	178.19	178.19
RE DISCCART	455100.0	4612500.0	178.29	178.29
RE DISCCART	455200.0	4612500.0	177.58	177.58
RE DISCCART	455300.0	4612500.0	178.1	178.1

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RE DISCCART	455400.0	4612500.0	177.59	177.59
RE DISCCART	455500.0	4612500.0	177.59	177.59
RE DISCCART	455600.0	4612500.0	177.59	177.59
RE DISCCART	455700.0	4612500.0	177.59	177.59
RE DISCCART	455800.0	4612500.0	177.62	177.62
RE DISCCART	455900.0	4612500.0	177.59	177.59
RE DISCCART	456000.0	4612500.0	177.59	177.59
RE DISCCART	456100.0	4612500.0	177.09	177.09
RE DISCCART	456200.0	4612500.0	177.09	177.09
RE DISCCART	456300.0	4612500.0	177.23	177.23
RE DISCCART	456400.0	4612500.0	178.44	178.44
RE DISCCART	456500.0	4612500.0	177.09	177.09
RE DISCCART	456600.0	4612500.0	177.09	177.09
RE DISCCART	452000.0	4612600.0	177.13	177.75
RE DISCCART	452100.0	4612600.0	177.92	177.92
RE DISCCART	452200.0	4612600.0	177.98	177.98
RE DISCCART	452300.0	4612600.0	178.16	178.16
RE DISCCART	452400.0	4612600.0	178.18	178.18
RE DISCCART	452500.0	4612600.0	178.22	178.22
RE DISCCART	452600.0	4612600.0	177.25	177.25
RE DISCCART	452700.0	4612600.0	175.19	175.19
RE DISCCART	452800.0	4612600.0	175.19	175.19
RE DISCCART	452900.0	4612600.0	178.65	178.65
RE DISCCART	453000.0	4612600.0	179.49	179.49
RE DISCCART	453100.0	4612600.0	179.28	179.28
RE DISCCART	453200.0	4612600.0	179.18	179.18
RE DISCCART	453300.0	4612600.0	179.19	179.19
RE DISCCART	453400.0	4612600.0	179.08	179.08
RE DISCCART	453500.0	4612600.0	179.09	179.09
RE DISCCART	453600.0	4612600.0	179.	179.
RE DISCCART	453700.0	4612600.0	179.09	179.09
RE DISCCART	453800.0	4612600.0	179.1	179.1
RE DISCCART	453900.0	4612600.0	178.79	178.79
RE DISCCART	454000.0	4612600.0	179.62	179.62
RE DISCCART	454100.0	4612600.0	178.55	178.55
RE DISCCART	454200.0	4612600.0	178.36	178.36
RE DISCCART	454300.0	4612600.0	178.19	178.19
RE DISCCART	454400.0	4612600.0	177.52	177.52
RE DISCCART	454500.0	4612600.0	178.16	178.16
RE DISCCART	454600.0	4612600.0	182.04	182.04
RE DISCCART	454700.0	4612600.0	182.15	193.99
RE DISCCART	454800.0	4612600.0	183.89	193.99
RE DISCCART	454900.0	4612600.0	183.7	183.7
RE DISCCART	455000.0	4612600.0	178.38	178.38
RE DISCCART	455100.0	4612600.0	178.19	178.19
RE DISCCART	455200.0	4612600.0	178.05	178.05
RE DISCCART	455300.0	4612600.0	177.6	177.6
RE DISCCART	455400.0	4612600.0	177.59	177.59

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RE DISCCART	455500.0	4612600.0	177.89	177.89
RE DISCCART	455600.0	4612600.0	178.04	178.04
RE DISCCART	455700.0	4612600.0	177.59	177.59
RE DISCCART	455800.0	4612600.0	177.59	177.59
RE DISCCART	455900.0	4612600.0	177.59	177.59
RE DISCCART	456000.0	4612600.0	177.59	177.59
RE DISCCART	456100.0	4612600.0	177.09	177.09
RE DISCCART	456200.0	4612600.0	177.09	177.09
RE DISCCART	456300.0	4612600.0	177.25	177.25
RE DISCCART	456400.0	4612600.0	177.62	177.62
RE DISCCART	456500.0	4612600.0	177.09	177.09
RE DISCCART	456600.0	4612600.0	177.09	177.09
RE DISCCART	452000.0	4612700.0	178.29	178.29
RE DISCCART	452100.0	4612700.0	178.29	178.29
RE DISCCART	452200.0	4612700.0	178.29	178.29
RE DISCCART	452300.0	4612700.0	178.45	178.45
RE DISCCART	452400.0	4612700.0	178.29	178.29
RE DISCCART	452500.0	4612700.0	178.29	178.29
RE DISCCART	452600.0	4612700.0	178.29	178.29
RE DISCCART	452700.0	4612700.0	178.3	178.3
RE DISCCART	452800.0	4612700.0	175.19	175.19
RE DISCCART	452900.0	4612700.0	175.9	175.9
RE DISCCART	453000.0	4612700.0	179.11	179.11
RE DISCCART	453100.0	4612700.0	179.52	179.52
RE DISCCART	453200.0	4612700.0	179.43	179.43
RE DISCCART	453300.0	4612700.0	179.39	179.39
RE DISCCART	453400.0	4612700.0	179.06	179.06
RE DISCCART	453500.0	4612700.0	178.99	178.99
RE DISCCART	453600.0	4612700.0	179.	179.
RE DISCCART	453700.0	4612700.0	179.26	179.26
RE DISCCART	453800.0	4612700.0	179.35	179.35
RE DISCCART	453900.0	4612700.0	179.43	179.43
RE DISCCART	454000.0	4612700.0	179.34	179.34
RE DISCCART	454100.0	4612700.0	177.85	177.85
RE DISCCART	454200.0	4612700.0	178.41	178.41
RE DISCCART	454300.0	4612700.0	177.68	177.68
RE DISCCART	454400.0	4612700.0	176.14	176.14
RE DISCCART	454500.0	4612700.0	178.19	192.89
RE DISCCART	454600.0	4612700.0	187.71	192.89
RE DISCCART	454700.0	4612700.0	192.76	192.76
RE DISCCART	454800.0	4612700.0	188.65	193.99
RE DISCCART	454900.0	4612700.0	184.34	185.68
RE DISCCART	455000.0	4612700.0	178.37	178.37
RE DISCCART	455100.0	4612700.0	178.19	178.19
RE DISCCART	455200.0	4612700.0	178.36	178.36
RE DISCCART	455300.0	4612700.0	177.63	177.63
RE DISCCART	455400.0	4612700.0	177.59	177.59
RE DISCCART	455500.0	4612700.0	177.59	177.59

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RE DISCCART	455600.0	4612700.0	177.59	177.59
RE DISCCART	455700.0	4612700.0	177.59	177.59
RE DISCCART	455800.0	4612700.0	177.59	177.59
RE DISCCART	455900.0	4612700.0	177.59	177.59
RE DISCCART	456000.0	4612700.0	177.59	177.59
RE DISCCART	456100.0	4612700.0	177.09	177.09
RE DISCCART	456200.0	4612700.0	177.09	177.09
RE DISCCART	456300.0	4612700.0	177.25	177.25
RE DISCCART	456400.0	4612700.0	177.49	177.49
RE DISCCART	456500.0	4612700.0	177.09	177.09
RE DISCCART	456600.0	4612700.0	177.09	177.09
RE DISCCART	452000.0	4612800.0	178.29	178.29
RE DISCCART	452100.0	4612800.0	178.29	178.29
RE DISCCART	452200.0	4612800.0	178.03	178.03
RE DISCCART	452300.0	4612800.0	178.29	178.29
RE DISCCART	452400.0	4612800.0	178.63	178.63
RE DISCCART	452500.0	4612800.0	178.45	178.45
RE DISCCART	452600.0	4612800.0	178.29	178.29
RE DISCCART	452700.0	4612800.0	178.86	178.86
RE DISCCART	452800.0	4612800.0	175.19	178.87
RE DISCCART	452900.0	4612800.0	175.19	175.19
RE DISCCART	453000.0	4612800.0	175.51	178.75
RE DISCCART	453100.0	4612800.0	179.66	179.66
RE DISCCART	453200.0	4612800.0	179.52	179.52
RE DISCCART	453300.0	4612800.0	179.24	179.24
RE DISCCART	453400.0	4612800.0	178.99	178.99
RE DISCCART	453500.0	4612800.0	178.99	178.99
RE DISCCART	453600.0	4612800.0	178.99	178.99
RE DISCCART	453700.0	4612800.0	179.25	179.25
RE DISCCART	453800.0	4612800.0	179.47	179.47
RE DISCCART	453900.0	4612800.0	179.75	179.75
RE DISCCART	454000.0	4612800.0	178.34	178.34
RE DISCCART	454100.0	4612800.0	177.22	177.22
RE DISCCART	454200.0	4612800.0	178.1	178.1
RE DISCCART	454300.0	4612800.0	177.88	177.88
RE DISCCART	454400.0	4612800.0	177.56	177.56
RE DISCCART	454500.0	4612800.0	178.14	178.14
RE DISCCART	454600.0	4612800.0	178.26	193.05
RE DISCCART	454700.0	4612800.0	178.63	193.99
RE DISCCART	454800.0	4612800.0	179.17	193.99
RE DISCCART	454900.0	4612800.0	179.2	179.2
RE DISCCART	455000.0	4612800.0	178.92	178.92
RE DISCCART	455100.0	4612800.0	178.19	178.19
RE DISCCART	455200.0	4612800.0	178.4	178.4
RE DISCCART	455300.0	4612800.0	177.59	177.59
RE DISCCART	455400.0	4612800.0	177.59	177.59
RE DISCCART	455500.0	4612800.0	177.59	177.59
RE DISCCART	455600.0	4612800.0	177.59	177.59

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RE DISCCART	455700.0	4612800.0	177.59	177.59
RE DISCCART	455800.0	4612800.0	177.59	177.59
RE DISCCART	455900.0	4612800.0	177.59	177.59
RE DISCCART	456000.0	4612800.0	177.59	177.59
RE DISCCART	456100.0	4612800.0	177.09	177.09
RE DISCCART	456200.0	4612800.0	177.09	177.09
RE DISCCART	456300.0	4612800.0	177.3	177.3
RE DISCCART	456400.0	4612800.0	177.76	177.76
RE DISCCART	456500.0	4612800.0	177.09	177.09
RE DISCCART	456600.0	4612800.0	177.09	177.09
RE DISCCART	452000.0	4612900.0	178.29	178.29
RE DISCCART	452100.0	4612900.0	178.29	178.29
RE DISCCART	452200.0	4612900.0	176.09	176.09
RE DISCCART	452300.0	4612900.0	177.89	177.89
RE DISCCART	452400.0	4612900.0	178.61	178.61
RE DISCCART	452500.0	4612900.0	178.95	178.95
RE DISCCART	452600.0	4612900.0	179.06	179.06
RE DISCCART	452700.0	4612900.0	179.65	179.65
RE DISCCART	452800.0	4612900.0	179.72	179.72
RE DISCCART	452900.0	4612900.0	175.47	179.73
RE DISCCART	453000.0	4612900.0	178.19	178.94
RE DISCCART	453100.0	4612900.0	175.19	175.19
RE DISCCART	453200.0	4612900.0	175.71	179.62
RE DISCCART	453300.0	4612900.0	179.48	179.48
RE DISCCART	453400.0	4612900.0	178.99	178.99
RE DISCCART	453500.0	4612900.0	178.99	178.99
RE DISCCART	453600.0	4612900.0	178.99	178.99
RE DISCCART	453700.0	4612900.0	179.22	179.22
RE DISCCART	453800.0	4612900.0	179.59	179.59
RE DISCCART	453900.0	4612900.0	178.72	178.72
RE DISCCART	454000.0	4612900.0	178.21	178.21
RE DISCCART	454100.0	4612900.0	177.14	177.14
RE DISCCART	454200.0	4612900.0	178.23	178.23
RE DISCCART	454300.0	4612900.0	178.19	178.19
RE DISCCART	454400.0	4612900.0	178.31	178.31
RE DISCCART	454500.0	4612900.0	178.21	178.21
RE DISCCART	454600.0	4612900.0	178.34	178.34
RE DISCCART	454700.0	4612900.0	179.22	179.22
RE DISCCART	454800.0	4612900.0	180.02	180.02
RE DISCCART	454900.0	4612900.0	180.38	180.38
RE DISCCART	455000.0	4612900.0	180.38	180.38
RE DISCCART	455100.0	4612900.0	178.19	178.19
RE DISCCART	455200.0	4612900.0	178.21	178.21
RE DISCCART	455300.0	4612900.0	177.59	177.59
RE DISCCART	455400.0	4612900.0	177.59	177.59
RE DISCCART	455500.0	4612900.0	177.59	177.59
RE DISCCART	455600.0	4612900.0	177.59	177.59
RE DISCCART	455700.0	4612900.0	177.59	177.59

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RE DISCCART	455800.0	4612900.0	177.59	177.59
RE DISCCART	455900.0	4612900.0	177.86	177.86
RE DISCCART	456000.0	4612900.0	177.59	177.59
RE DISCCART	456100.0	4612900.0	177.09	177.09
RE DISCCART	456200.0	4612900.0	177.09	177.09
RE DISCCART	456300.0	4612900.0	177.22	177.22
RE DISCCART	456400.0	4612900.0	177.09	177.09
RE DISCCART	456500.0	4612900.0	177.09	177.09
RE DISCCART	456600.0	4612900.0	177.09	177.09
RE DISCCART	452000.0	4613000.0	178.29	178.29
RE DISCCART	452100.0	4613000.0	178.29	178.29
RE DISCCART	452200.0	4613000.0	176.09	176.09
RE DISCCART	452300.0	4613000.0	177.92	177.92
RE DISCCART	452400.0	4613000.0	178.88	178.88
RE DISCCART	452500.0	4613000.0	179.22	179.22
RE DISCCART	452600.0	4613000.0	179.66	179.66
RE DISCCART	452700.0	4613000.0	179.69	179.69
RE DISCCART	452800.0	4613000.0	179.69	179.69
RE DISCCART	452900.0	4613000.0	179.69	179.69
RE DISCCART	453000.0	4613000.0	178.45	178.45
RE DISCCART	453100.0	4613000.0	176.93	176.93
RE DISCCART	453200.0	4613000.0	175.19	175.19
RE DISCCART	453300.0	4613000.0	176.43	179.6
RE DISCCART	453400.0	4613000.0	179.04	179.04
RE DISCCART	453500.0	4613000.0	178.99	178.99
RE DISCCART	453600.0	4613000.0	178.99	178.99
RE DISCCART	453700.0	4613000.0	179.33	179.33
RE DISCCART	453800.0	4613000.0	179.76	179.76
RE DISCCART	453900.0	4613000.0	178.57	178.57
RE DISCCART	454000.0	4613000.0	178.35	178.35
RE DISCCART	454100.0	4613000.0	177.29	177.29
RE DISCCART	454200.0	4613000.0	178.21	178.21
RE DISCCART	454300.0	4613000.0	178.37	178.37
RE DISCCART	454400.0	4613000.0	178.77	178.77
RE DISCCART	454500.0	4613000.0	178.2	178.2
RE DISCCART	454600.0	4613000.0	178.31	178.31
RE DISCCART	454700.0	4613000.0	179.07	179.07
RE DISCCART	454800.0	4613000.0	179.61	179.61
RE DISCCART	454900.0	4613000.0	179.86	179.86
RE DISCCART	455000.0	4613000.0	180.28	180.28
RE DISCCART	455100.0	4613000.0	178.19	178.19
RE DISCCART	455200.0	4613000.0	178.19	178.19
RE DISCCART	455300.0	4613000.0	178.45	178.45
RE DISCCART	455400.0	4613000.0	177.59	177.59
RE DISCCART	455500.0	4613000.0	177.59	177.59
RE DISCCART	455600.0	4613000.0	177.59	177.59
RE DISCCART	455700.0	4613000.0	177.59	177.59
RE DISCCART	455800.0	4613000.0	177.59	177.59

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RE DISCCART	455900.0	4613000.0	179.1	179.1
RE DISCCART	456000.0	4613000.0	177.59	177.59
RE DISCCART	456100.0	4613000.0	177.09	177.09
RE DISCCART	456200.0	4613000.0	177.09	177.09
RE DISCCART	456300.0	4613000.0	177.65	177.65
RE DISCCART	456400.0	4613000.0	177.83	177.83
RE DISCCART	456500.0	4613000.0	177.91	177.91
RE DISCCART	456600.0	4613000.0	177.9	177.9
RE DISCCART	452000.0	4613100.0	178.29	178.29
RE DISCCART	452100.0	4613100.0	178.29	178.29
RE DISCCART	452200.0	4613100.0	176.09	176.09
RE DISCCART	452300.0	4613100.0	178.55	178.55
RE DISCCART	452400.0	4613100.0	179.71	179.71
RE DISCCART	452500.0	4613100.0	179.47	179.47
RE DISCCART	452600.0	4613100.0	179.69	179.69
RE DISCCART	452700.0	4613100.0	179.69	179.69
RE DISCCART	452800.0	4613100.0	179.69	179.69
RE DISCCART	452900.0	4613100.0	179.66	179.66
RE DISCCART	453000.0	4613100.0	178.53	178.53
RE DISCCART	453100.0	4613100.0	179.09	179.09
RE DISCCART	453200.0	4613100.0	177.43	177.43
RE DISCCART	453300.0	4613100.0	175.19	175.19
RE DISCCART	453400.0	4613100.0	178.89	183.39
RE DISCCART	453500.0	4613100.0	178.99	178.99
RE DISCCART	453600.0	4613100.0	179.21	179.21
RE DISCCART	453700.0	4613100.0	179.55	179.55
RE DISCCART	453800.0	4613100.0	179.59	179.59
RE DISCCART	453900.0	4613100.0	178.96	178.96
RE DISCCART	454000.0	4613100.0	178.29	178.29
RE DISCCART	454100.0	4613100.0	178.57	178.57
RE DISCCART	454200.0	4613100.0	178.19	178.19
RE DISCCART	454300.0	4613100.0	178.24	189.25
RE DISCCART	454400.0	4613100.0	178.75	178.75
RE DISCCART	454500.0	4613100.0	178.2	178.2
RE DISCCART	454600.0	4613100.0	178.3	178.3
RE DISCCART	454700.0	4613100.0	178.96	178.96
RE DISCCART	454800.0	4613100.0	179.34	179.34
RE DISCCART	454900.0	4613100.0	179.71	179.71
RE DISCCART	455000.0	4613100.0	179.65	179.65
RE DISCCART	455100.0	4613100.0	178.19	178.19
RE DISCCART	455200.0	4613100.0	178.27	178.27
RE DISCCART	455300.0	4613100.0	178.46	178.46
RE DISCCART	455400.0	4613100.0	177.59	177.59
RE DISCCART	455500.0	4613100.0	177.59	177.59
RE DISCCART	455600.0	4613100.0	177.59	177.59
RE DISCCART	455700.0	4613100.0	179.44	179.44
RE DISCCART	455800.0	4613100.0	177.65	177.65
RE DISCCART	455900.0	4613100.0	177.64	177.64

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RE DISCCART	456000.0	4613100.0	177.59	177.59
RE DISCCART	456100.0	4613100.0	177.09	177.09
RE DISCCART	456200.0	4613100.0	177.09	177.09
RE DISCCART	456300.0	4613100.0	177.42	177.42
RE DISCCART	456400.0	4613100.0	177.09	177.09
RE DISCCART	456500.0	4613100.0	177.09	177.09
RE DISCCART	456600.0	4613100.0	177.09	177.09
RE DISCCART	452000.0	4613200.0	178.29	178.29
RE DISCCART	452100.0	4613200.0	178.29	178.29
RE DISCCART	452200.0	4613200.0	176.09	176.09
RE DISCCART	452300.0	4613200.0	178.5	178.5
RE DISCCART	452400.0	4613200.0	179.43	179.43
RE DISCCART	452500.0	4613200.0	179.7	179.7
RE DISCCART	452600.0	4613200.0	179.69	179.69
RE DISCCART	452700.0	4613200.0	179.69	179.69
RE DISCCART	452800.0	4613200.0	179.7	179.7
RE DISCCART	452900.0	4613200.0	179.23	179.23
RE DISCCART	453000.0	4613200.0	178.52	178.52
RE DISCCART	453100.0	4613200.0	179.09	179.09
RE DISCCART	453200.0	4613200.0	179.09	179.09
RE DISCCART	453300.0	4613200.0	177.61	179.09
RE DISCCART	453400.0	4613200.0	175.19	183.84
RE DISCCART	453500.0	4613200.0	175.31	183.84
RE DISCCART	453600.0	4613200.0	179.52	179.52
RE DISCCART	453700.0	4613200.0	178.94	178.94
RE DISCCART	453800.0	4613200.0	179.31	179.31
RE DISCCART	453900.0	4613200.0	178.82	178.82
RE DISCCART	454000.0	4613200.0	178.28	178.28
RE DISCCART	454100.0	4613200.0	179.66	179.66
RE DISCCART	454200.0	4613200.0	178.19	191.48
RE DISCCART	454300.0	4613200.0	186.33	191.48
RE DISCCART	454400.0	4613200.0	183.86	183.86
RE DISCCART	454500.0	4613200.0	178.41	178.41
RE DISCCART	454600.0	4613200.0	178.24	178.24
RE DISCCART	454700.0	4613200.0	179.33	179.33
RE DISCCART	454800.0	4613200.0	180.56	180.56
RE DISCCART	454900.0	4613200.0	179.49	179.49
RE DISCCART	455000.0	4613200.0	178.61	178.61
RE DISCCART	455100.0	4613200.0	178.2	178.2
RE DISCCART	455200.0	4613200.0	178.3	178.3
RE DISCCART	455300.0	4613200.0	178.58	178.58
RE DISCCART	455400.0	4613200.0	178.14	178.14
RE DISCCART	455500.0	4613200.0	177.59	177.59
RE DISCCART	455600.0	4613200.0	177.59	177.59
RE DISCCART	455700.0	4613200.0	177.59	177.59
RE DISCCART	455800.0	4613200.0	177.59	177.59
RE DISCCART	455900.0	4613200.0	177.59	177.59
RE DISCCART	456000.0	4613200.0	178.33	178.33

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RE DISCCART	456100.0	4613200.0	177.09	177.09
RE DISCCART	456200.0	4613200.0	177.09	177.09
RE DISCCART	456300.0	4613200.0	177.4	177.4
RE DISCCART	456400.0	4613200.0	177.09	177.09
RE DISCCART	456500.0	4613200.0	177.09	177.09
RE DISCCART	456600.0	4613200.0	177.09	177.09
RE DISCCART	452000.0	4613300.0	178.29	178.29
RE DISCCART	452100.0	4613300.0	178.29	178.29
RE DISCCART	452200.0	4613300.0	176.09	176.09
RE DISCCART	452300.0	4613300.0	178.57	178.57
RE DISCCART	452400.0	4613300.0	179.64	179.64
RE DISCCART	452500.0	4613300.0	179.72	179.72
RE DISCCART	452600.0	4613300.0	179.69	179.69
RE DISCCART	452700.0	4613300.0	179.68	179.68
RE DISCCART	452800.0	4613300.0	179.37	179.37
RE DISCCART	452900.0	4613300.0	178.92	178.92
RE DISCCART	453000.0	4613300.0	179.63	179.63
RE DISCCART	453100.0	4613300.0	179.09	179.09
RE DISCCART	453200.0	4613300.0	179.09	179.09
RE DISCCART	453300.0	4613300.0	179.09	179.09
RE DISCCART	453400.0	4613300.0	180.54	180.54
RE DISCCART	453500.0	4613300.0	176.44	182.98
RE DISCCART	453600.0	4613300.0	175.19	175.19
RE DISCCART	453700.0	4613300.0	178.89	178.89
RE DISCCART	453800.0	4613300.0	178.51	178.51
RE DISCCART	453900.0	4613300.0	178.67	178.67
RE DISCCART	454000.0	4613300.0	178.17	178.17
RE DISCCART	454100.0	4613300.0	178.61	178.61
RE DISCCART	454200.0	4613300.0	178.19	191.67
RE DISCCART	454300.0	4613300.0	191.01	191.01
RE DISCCART	454400.0	4613300.0	185.06	191.11
RE DISCCART	454500.0	4613300.0	178.57	178.57
RE DISCCART	454600.0	4613300.0	178.21	178.21
RE DISCCART	454700.0	4613300.0	179.35	179.35
RE DISCCART	454800.0	4613300.0	179.96	179.96
RE DISCCART	454900.0	4613300.0	178.57	178.57
RE DISCCART	455000.0	4613300.0	178.19	178.19
RE DISCCART	455100.0	4613300.0	178.19	178.19
RE DISCCART	455200.0	4613300.0	178.4	178.4
RE DISCCART	455300.0	4613300.0	178.62	178.62
RE DISCCART	455400.0	4613300.0	179.12	179.12
RE DISCCART	455500.0	4613300.0	177.59	177.59
RE DISCCART	455600.0	4613300.0	177.59	177.59
RE DISCCART	455700.0	4613300.0	177.59	177.59
RE DISCCART	455800.0	4613300.0	177.59	177.59
RE DISCCART	455900.0	4613300.0	177.59	177.59
RE DISCCART	456000.0	4613300.0	178.25	178.25
RE DISCCART	456100.0	4613300.0	177.09	177.09

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RE DISCCART	456200.0	4613300.0	177.09	177.09
RE DISCCART	456300.0	4613300.0	177.42	177.42
RE DISCCART	456400.0	4613300.0	177.09	177.09
RE DISCCART	456500.0	4613300.0	177.09	177.09
RE DISCCART	456600.0	4613300.0	177.09	181.45
RE DISCCART	452000.0	4613400.0	178.43	178.43
RE DISCCART	452100.0	4613400.0	178.29	178.29
RE DISCCART	452200.0	4613400.0	176.09	176.09
RE DISCCART	452300.0	4613400.0	178.61	178.61
RE DISCCART	452400.0	4613400.0	179.8	179.8
RE DISCCART	452500.0	4613400.0	179.79	179.79
RE DISCCART	452600.0	4613400.0	179.88	179.88
RE DISCCART	452700.0	4613400.0	179.69	179.69
RE DISCCART	452800.0	4613400.0	179.29	179.29
RE DISCCART	452900.0	4613400.0	179.31	179.31
RE DISCCART	453000.0	4613400.0	179.69	179.69
RE DISCCART	453100.0	4613400.0	179.41	179.41
RE DISCCART	453200.0	4613400.0	179.25	179.25
RE DISCCART	453300.0	4613400.0	179.22	179.22
RE DISCCART	453400.0	4613400.0	178.6	178.6
RE DISCCART	453500.0	4613400.0	178.32	178.32
RE DISCCART	453600.0	4613400.0	175.42	175.42
RE DISCCART	453700.0	4613400.0	175.19	175.19
RE DISCCART	453800.0	4613400.0	178.12	178.12
RE DISCCART	453900.0	4613400.0	178.19	178.19
RE DISCCART	454000.0	4613400.0	178.2	178.2
RE DISCCART	454100.0	4613400.0	178.27	178.27
RE DISCCART	454200.0	4613400.0	178.19	190.94
RE DISCCART	454300.0	4613400.0	183.33	191.37
RE DISCCART	454400.0	4613400.0	186.85	188.57
RE DISCCART	454500.0	4613400.0	178.75	189.85
RE DISCCART	454600.0	4613400.0	178.19	178.19
RE DISCCART	454700.0	4613400.0	178.19	178.19
RE DISCCART	454800.0	4613400.0	178.19	178.19
RE DISCCART	454900.0	4613400.0	178.19	178.19
RE DISCCART	455000.0	4613400.0	178.19	178.19
RE DISCCART	455100.0	4613400.0	178.19	178.19
RE DISCCART	455200.0	4613400.0	178.33	178.33
RE DISCCART	455300.0	4613400.0	178.84	178.84
RE DISCCART	455400.0	4613400.0	179.24	179.24
RE DISCCART	455500.0	4613400.0	177.59	177.59
RE DISCCART	455600.0	4613400.0	177.59	177.59
RE DISCCART	455700.0	4613400.0	177.59	177.59
RE DISCCART	455800.0	4613400.0	177.59	177.59
RE DISCCART	455900.0	4613400.0	177.59	177.59
RE DISCCART	456000.0	4613400.0	177.59	177.59
RE DISCCART	456100.0	4613400.0	177.12	177.12
RE DISCCART	456200.0	4613400.0	177.09	177.09

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RE DISCCART	456300.0	4613400.0	177.53	177.53
RE DISCCART	456400.0	4613400.0	177.09	177.09
RE DISCCART	456500.0	4613400.0	177.09	177.09
RE DISCCART	456600.0	4613400.0	179.72	181.72
RE DISCCART	452000.0	4613500.0	178.76	178.76
RE DISCCART	452100.0	4613500.0	178.29	178.29
RE DISCCART	452200.0	4613500.0	176.09	176.09
RE DISCCART	452300.0	4613500.0	178.51	178.51
RE DISCCART	452400.0	4613500.0	179.41	179.41
RE DISCCART	452500.0	4613500.0	179.7	179.7
RE DISCCART	452600.0	4613500.0	179.69	179.69
RE DISCCART	452700.0	4613500.0	179.61	179.61
RE DISCCART	452800.0	4613500.0	179.67	179.67
RE DISCCART	452900.0	4613500.0	179.68	179.68
RE DISCCART	453000.0	4613500.0	179.7	179.7
RE DISCCART	453100.0	4613500.0	179.39	179.39
RE DISCCART	453200.0	4613500.0	179.12	179.12
RE DISCCART	453300.0	4613500.0	178.77	178.77
RE DISCCART	453400.0	4613500.0	178.48	178.48
RE DISCCART	453500.0	4613500.0	178.29	178.29
RE DISCCART	453600.0	4613500.0	178.58	178.58
RE DISCCART	453700.0	4613500.0	176.66	178.79
RE DISCCART	453800.0	4613500.0	175.19	175.19
RE DISCCART	453900.0	4613500.0	175.19	179.57
RE DISCCART	454000.0	4613500.0	178.74	178.74
RE DISCCART	454100.0	4613500.0	178.19	178.19
RE DISCCART	454200.0	4613500.0	178.19	178.19
RE DISCCART	454300.0	4613500.0	179.63	190.05
RE DISCCART	454400.0	4613500.0	179.7	190.05
RE DISCCART	454500.0	4613500.0	178.75	189.85
RE DISCCART	454600.0	4613500.0	178.19	178.19
RE DISCCART	454700.0	4613500.0	178.19	178.19
RE DISCCART	454800.0	4613500.0	178.19	178.19
RE DISCCART	454900.0	4613500.0	178.19	178.19
RE DISCCART	455000.0	4613500.0	178.19	178.19
RE DISCCART	455100.0	4613500.0	178.19	178.19
RE DISCCART	455200.0	4613500.0	178.19	178.19
RE DISCCART	455300.0	4613500.0	178.7	178.7
RE DISCCART	455400.0	4613500.0	179.15	179.15
RE DISCCART	455500.0	4613500.0	177.59	177.59
RE DISCCART	455600.0	4613500.0	177.59	177.59
RE DISCCART	455700.0	4613500.0	177.59	177.59
RE DISCCART	455800.0	4613500.0	177.59	177.59
RE DISCCART	455900.0	4613500.0	177.59	177.59
RE DISCCART	456000.0	4613500.0	177.59	177.59
RE DISCCART	456100.0	4613500.0	177.27	177.27
RE DISCCART	456200.0	4613500.0	177.09	177.09
RE DISCCART	456300.0	4613500.0	177.21	177.21

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RE DISCCART	456400.0	4613500.0	177.09	177.09
RE DISCCART	456500.0	4613500.0	177.09	177.09
RE DISCCART	456600.0	4613500.0	182.03	182.03
RE DISCCART	452000.0	4613600.0	179.18	179.18
RE DISCCART	452100.0	4613600.0	178.34	178.34
RE DISCCART	452200.0	4613600.0	176.09	176.09
RE DISCCART	452300.0	4613600.0	176.35	176.35
RE DISCCART	452400.0	4613600.0	179.65	179.65
RE DISCCART	452500.0	4613600.0	179.75	179.75
RE DISCCART	452600.0	4613600.0	179.66	179.66
RE DISCCART	452700.0	4613600.0	179.94	179.94
RE DISCCART	452800.0	4613600.0	179.84	179.84
RE DISCCART	452900.0	4613600.0	179.69	179.69
RE DISCCART	453000.0	4613600.0	179.93	179.93
RE DISCCART	453100.0	4613600.0	179.42	179.42
RE DISCCART	453200.0	4613600.0	178.51	178.51
RE DISCCART	453300.0	4613600.0	178.49	178.49
RE DISCCART	453400.0	4613600.0	178.56	178.56
RE DISCCART	453500.0	4613600.0	178.29	178.29
RE DISCCART	453600.0	4613600.0	178.72	178.72
RE DISCCART	453700.0	4613600.0	178.61	178.61
RE DISCCART	453800.0	4613600.0	178.4	178.4
RE DISCCART	453900.0	4613600.0	175.19	175.19
RE DISCCART	454000.0	4613600.0	175.19	175.19
RE DISCCART	454100.0	4613600.0	178.19	178.19
RE DISCCART	454200.0	4613600.0	178.19	178.19
RE DISCCART	454300.0	4613600.0	178.34	178.34
RE DISCCART	454400.0	4613600.0	178.64	178.64
RE DISCCART	454500.0	4613600.0	178.2	178.2
RE DISCCART	454600.0	4613600.0	178.19	178.19
RE DISCCART	454700.0	4613600.0	178.19	178.19
RE DISCCART	454800.0	4613600.0	178.19	178.19
RE DISCCART	454900.0	4613600.0	178.19	178.19
RE DISCCART	455000.0	4613600.0	178.19	178.19
RE DISCCART	455100.0	4613600.0	178.19	178.19
RE DISCCART	455200.0	4613600.0	178.19	178.19
RE DISCCART	455300.0	4613600.0	178.39	178.39
RE DISCCART	455400.0	4613600.0	178.92	178.92
RE DISCCART	455500.0	4613600.0	179.5	179.5
RE DISCCART	455600.0	4613600.0	177.66	177.66
RE DISCCART	455700.0	4613600.0	177.59	177.59
RE DISCCART	455800.0	4613600.0	177.59	177.59
RE DISCCART	455900.0	4613600.0	177.59	177.59
RE DISCCART	456000.0	4613600.0	177.59	177.59
RE DISCCART	456100.0	4613600.0	177.12	177.12
RE DISCCART	456200.0	4613600.0	177.09	177.09
RE DISCCART	456300.0	4613600.0	177.1	177.1
RE DISCCART	456400.0	4613600.0	177.09	177.09

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RE DISCCART	456500.0	4613600.0	177.09	177.09
RE DISCCART	456600.0	4613600.0	179.31	182.02
RE DISCCART	452000.0	4613700.0	179.31	179.31
RE DISCCART	452100.0	4613700.0	179.45	179.45
RE DISCCART	452200.0	4613700.0	178.21	196.21
RE DISCCART	452300.0	4613700.0	178.54	195.02
RE DISCCART	452400.0	4613700.0	178.65	178.65
RE DISCCART	452500.0	4613700.0	179.75	179.75
RE DISCCART	452600.0	4613700.0	179.84	179.84
RE DISCCART	452700.0	4613700.0	180.18	180.18
RE DISCCART	452800.0	4613700.0	180.26	180.26
RE DISCCART	452900.0	4613700.0	180.07	180.07
RE DISCCART	453000.0	4613700.0	179.98	179.98
RE DISCCART	453100.0	4613700.0	179.36	179.36
RE DISCCART	453200.0	4613700.0	179.64	179.64
RE DISCCART	453300.0	4613700.0	179.68	179.68
RE DISCCART	453400.0	4613700.0	179.7	179.7
RE DISCCART	453500.0	4613700.0	179.03	179.03
RE DISCCART	453600.0	4613700.0	179.03	179.03
RE DISCCART	453700.0	4613700.0	178.77	178.77
RE DISCCART	453800.0	4613700.0	179.75	179.75
RE DISCCART	453900.0	4613700.0	178.59	178.59
RE DISCCART	454000.0	4613700.0	175.19	175.19
RE DISCCART	454100.0	4613700.0	178.19	178.19
RE DISCCART	454200.0	4613700.0	178.19	178.19
RE DISCCART	454300.0	4613700.0	178.19	178.19
RE DISCCART	454400.0	4613700.0	178.19	178.19
RE DISCCART	454500.0	4613700.0	178.19	178.19
RE DISCCART	454600.0	4613700.0	178.19	178.19
RE DISCCART	454700.0	4613700.0	178.19	178.19
RE DISCCART	454800.0	4613700.0	178.19	178.19
RE DISCCART	454900.0	4613700.0	178.19	178.19
RE DISCCART	455000.0	4613700.0	178.19	178.19
RE DISCCART	455100.0	4613700.0	178.19	178.19
RE DISCCART	455200.0	4613700.0	178.19	178.19
RE DISCCART	455300.0	4613700.0	178.19	178.19
RE DISCCART	455400.0	4613700.0	178.44	178.44
RE DISCCART	455500.0	4613700.0	178.92	178.92
RE DISCCART	455600.0	4613700.0	179.76	179.76
RE DISCCART	455700.0	4613700.0	177.59	177.59
RE DISCCART	455800.0	4613700.0	177.59	177.59
RE DISCCART	455900.0	4613700.0	177.59	177.59
RE DISCCART	456000.0	4613700.0	177.59	177.59
RE DISCCART	456100.0	4613700.0	177.13	177.13
RE DISCCART	456200.0	4613700.0	177.47	177.47
RE DISCCART	456300.0	4613700.0	178.48	178.48
RE DISCCART	456400.0	4613700.0	178.39	178.39
RE DISCCART	456500.0	4613700.0	177.26	177.26

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RE DISCCART	456600.0	4613700.0	178.33	178.33
RE DISCCART	452000.0	4613800.0	179.24	179.24
RE DISCCART	452100.0	4613800.0	179.59	197.62
RE DISCCART	452200.0	4613800.0	192.68	193.46
RE DISCCART	452300.0	4613800.0	182.29	197.62
RE DISCCART	452400.0	4613800.0	178.75	196.34
RE DISCCART	452500.0	4613800.0	179.83	179.83
RE DISCCART	452600.0	4613800.0	180.3	180.3
RE DISCCART	452700.0	4613800.0	180.72	180.72
RE DISCCART	452800.0	4613800.0	180.77	180.77
RE DISCCART	452900.0	4613800.0	180.42	180.42
RE DISCCART	453000.0	4613800.0	180.01	180.01
RE DISCCART	453100.0	4613800.0	179.43	179.43
RE DISCCART	453200.0	4613800.0	179.38	179.38
RE DISCCART	453300.0	4613800.0	179.37	179.37
RE DISCCART	453400.0	4613800.0	178.75	178.75
RE DISCCART	453500.0	4613800.0	179.08	179.08
RE DISCCART	453600.0	4613800.0	179.26	179.26
RE DISCCART	453700.0	4613800.0	179.01	179.01
RE DISCCART	453800.0	4613800.0	179.73	179.73
RE DISCCART	453900.0	4613800.0	180.57	180.57
RE DISCCART	454000.0	4613800.0	175.19	180.07
RE DISCCART	454100.0	4613800.0	175.19	179.63
RE DISCCART	454200.0	4613800.0	177.78	177.78
RE DISCCART	454300.0	4613800.0	178.19	178.19
RE DISCCART	454400.0	4613800.0	178.19	178.19
RE DISCCART	454500.0	4613800.0	178.19	178.19
RE DISCCART	454600.0	4613800.0	178.19	178.19
RE DISCCART	454700.0	4613800.0	178.19	178.19
RE DISCCART	454800.0	4613800.0	178.19	178.19
RE DISCCART	454900.0	4613800.0	178.19	178.19
RE DISCCART	455000.0	4613800.0	178.19	178.19
RE DISCCART	455100.0	4613800.0	178.19	178.19
RE DISCCART	455200.0	4613800.0	178.19	178.19
RE DISCCART	455300.0	4613800.0	178.19	178.19
RE DISCCART	455400.0	4613800.0	178.19	178.19
RE DISCCART	455500.0	4613800.0	178.75	178.75
RE DISCCART	455600.0	4613800.0	180.1	180.1
RE DISCCART	455700.0	4613800.0	178.83	180.77
RE DISCCART	455800.0	4613800.0	179.49	181.08
RE DISCCART	455900.0	4613800.0	179.64	181.13
RE DISCCART	456000.0	4613800.0	178.72	178.72
RE DISCCART	456100.0	4613800.0	177.15	177.15
RE DISCCART	456200.0	4613800.0	178.34	178.34
RE DISCCART	456300.0	4613800.0	178.72	178.72
RE DISCCART	456400.0	4613800.0	177.97	177.97
RE DISCCART	456500.0	4613800.0	177.89	181.4
RE DISCCART	456600.0	4613800.0	178.99	178.99

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RE DISCCART	452000.0	4613900.0	179.25	179.25
RE DISCCART	452100.0	4613900.0	179.59	198.85
RE DISCCART	452200.0	4613900.0	196.69	196.69
RE DISCCART	452300.0	4613900.0	191.98	196.34
RE DISCCART	452400.0	4613900.0	179.12	198.85
RE DISCCART	452500.0	4613900.0	179.92	179.92
RE DISCCART	452600.0	4613900.0	180.6	180.6
RE DISCCART	452700.0	4613900.0	183.05	183.05
RE DISCCART	452800.0	4613900.0	181.06	181.06
RE DISCCART	452900.0	4613900.0	180.64	180.64
RE DISCCART	453000.0	4613900.0	179.97	179.97
RE DISCCART	453100.0	4613900.0	178.84	178.84
RE DISCCART	453200.0	4613900.0	179.13	179.13
RE DISCCART	453300.0	4613900.0	179.09	179.09
RE DISCCART	453400.0	4613900.0	178.54	178.54
RE DISCCART	453500.0	4613900.0	179.84	179.84
RE DISCCART	453600.0	4613900.0	179.39	179.39
RE DISCCART	453700.0	4613900.0	179.23	179.23
RE DISCCART	453800.0	4613900.0	179.7	179.7
RE DISCCART	453900.0	4613900.0	179.51	179.51
RE DISCCART	454000.0	4613900.0	175.19	179.27
RE DISCCART	454100.0	4613900.0	175.19	175.19
RE DISCCART	454200.0	4613900.0	175.19	175.19
RE DISCCART	454300.0	4613900.0	178.19	178.19
RE DISCCART	454400.0	4613900.0	178.19	178.19
RE DISCCART	454500.0	4613900.0	178.19	178.19
RE DISCCART	454600.0	4613900.0	178.19	178.19
RE DISCCART	454700.0	4613900.0	178.19	178.19
RE DISCCART	454800.0	4613900.0	178.19	178.19
RE DISCCART	454900.0	4613900.0	178.19	178.19
RE DISCCART	455000.0	4613900.0	178.19	178.19
RE DISCCART	455100.0	4613900.0	178.19	178.19
RE DISCCART	455200.0	4613900.0	178.19	178.19
RE DISCCART	455300.0	4613900.0	178.19	178.19
RE DISCCART	455400.0	4613900.0	178.2	178.2
RE DISCCART	455500.0	4613900.0	178.38	178.38
RE DISCCART	455600.0	4613900.0	179.68	179.68
RE DISCCART	455700.0	4613900.0	181.27	181.27
RE DISCCART	455800.0	4613900.0	181.27	181.27
RE DISCCART	455900.0	4613900.0	181.27	181.27
RE DISCCART	456000.0	4613900.0	181.27	181.27
RE DISCCART	456100.0	4613900.0	180.2	180.2
RE DISCCART	456200.0	4613900.0	178.78	178.78
RE DISCCART	456300.0	4613900.0	178.37	178.37
RE DISCCART	456400.0	4613900.0	177.99	177.99
RE DISCCART	456500.0	4613900.0	181.15	181.15
RE DISCCART	456600.0	4613900.0	178.66	178.66
RE DISCCART	452000.0	4614000.0	179.2	179.2

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RE DISCCART	452100.0	4614000.0	179.63	198.85
RE DISCCART	452200.0	4614000.0	196.94	196.94
RE DISCCART	452300.0	4614000.0	194.23	198.85
RE DISCCART	452400.0	4614000.0	179.09	198.85
RE DISCCART	452500.0	4614000.0	180.1	180.1
RE DISCCART	452600.0	4614000.0	180.84	180.84
RE DISCCART	452700.0	4614000.0	182.49	182.49
RE DISCCART	452800.0	4614000.0	181.47	181.47
RE DISCCART	452900.0	4614000.0	180.99	180.99
RE DISCCART	453000.0	4614000.0	180.16	180.16
RE DISCCART	453100.0	4614000.0	178.4	178.4
RE DISCCART	453200.0	4614000.0	179.05	179.05
RE DISCCART	453300.0	4614000.0	178.92	178.92
RE DISCCART	453400.0	4614000.0	178.47	178.47
RE DISCCART	453500.0	4614000.0	179.84	179.84
RE DISCCART	453600.0	4614000.0	179.44	179.44
RE DISCCART	453700.0	4614000.0	179.24	179.24
RE DISCCART	453800.0	4614000.0	179.72	179.72
RE DISCCART	453900.0	4614000.0	179.09	179.09
RE DISCCART	454000.0	4614000.0	175.29	179.09
RE DISCCART	454100.0	4614000.0	175.33	175.33
RE DISCCART	454200.0	4614000.0	178.28	178.28
RE DISCCART	454300.0	4614000.0	178.19	178.19
RE DISCCART	454400.0	4614000.0	178.19	178.19
RE DISCCART	454500.0	4614000.0	178.19	178.19
RE DISCCART	454600.0	4614000.0	178.19	178.19
RE DISCCART	454700.0	4614000.0	178.19	178.19
RE DISCCART	454800.0	4614000.0	178.19	178.19
RE DISCCART	454900.0	4614000.0	178.19	178.19
RE DISCCART	455000.0	4614000.0	178.19	178.19
RE DISCCART	455100.0	4614000.0	178.19	178.19
RE DISCCART	455200.0	4614000.0	178.19	178.19
RE DISCCART	455300.0	4614000.0	178.19	178.19
RE DISCCART	455400.0	4614000.0	178.19	178.19
RE DISCCART	455500.0	4614000.0	178.89	178.89
RE DISCCART	455600.0	4614000.0	180.23	180.23
RE DISCCART	455700.0	4614000.0	181.25	181.25
RE DISCCART	455800.0	4614000.0	181.47	181.47
RE DISCCART	455900.0	4614000.0	181.39	181.39
RE DISCCART	456000.0	4614000.0	181.38	181.38
RE DISCCART	456100.0	4614000.0	181.32	181.32
RE DISCCART	456200.0	4614000.0	180.69	180.69
RE DISCCART	456300.0	4614000.0	178.43	178.43
RE DISCCART	456400.0	4614000.0	178.32	178.32
RE DISCCART	456500.0	4614000.0	182.4	182.4
RE DISCCART	456600.0	4614000.0	178.72	178.72
RE DISCCART	452000.0	4614100.0	179.07	179.07
RE DISCCART	452100.0	4614100.0	179.58	198.84

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RE DISCCART	452200.0	4614100.0	197.09	197.09
RE DISCCART	452300.0	4614100.0	195.23	198.22
RE DISCCART	452400.0	4614100.0	179.09	198.85
RE DISCCART	452500.0	4614100.0	180.38	180.38
RE DISCCART	452600.0	4614100.0	181.7	181.7
RE DISCCART	452700.0	4614100.0	180.89	180.89
RE DISCCART	452800.0	4614100.0	180.99	180.99
RE DISCCART	452900.0	4614100.0	182.92	182.92
RE DISCCART	453000.0	4614100.0	180.41	180.41
RE DISCCART	453100.0	4614100.0	178.33	178.33
RE DISCCART	453200.0	4614100.0	178.88	178.88
RE DISCCART	453300.0	4614100.0	178.83	178.83
RE DISCCART	453400.0	4614100.0	178.47	178.47
RE DISCCART	453500.0	4614100.0	179.73	179.73
RE DISCCART	453600.0	4614100.0	179.39	179.39
RE DISCCART	453700.0	4614100.0	179.04	179.04
RE DISCCART	453800.0	4614100.0	179.72	179.72
RE DISCCART	453900.0	4614100.0	179.09	179.09
RE DISCCART	454000.0	4614100.0	175.19	175.19
RE DISCCART	454100.0	4614100.0	178.19	178.19
RE DISCCART	454200.0	4614100.0	178.19	178.19
RE DISCCART	454300.0	4614100.0	178.19	178.19
RE DISCCART	454400.0	4614100.0	178.19	178.19
RE DISCCART	454500.0	4614100.0	178.19	178.19
RE DISCCART	454600.0	4614100.0	178.19	178.19
RE DISCCART	454700.0	4614100.0	178.19	178.19
RE DISCCART	454800.0	4614100.0	178.19	178.19
RE DISCCART	454900.0	4614100.0	178.19	178.19
RE DISCCART	455000.0	4614100.0	178.19	178.19
RE DISCCART	455100.0	4614100.0	178.19	178.19
RE DISCCART	455200.0	4614100.0	178.19	178.19
RE DISCCART	455300.0	4614100.0	178.19	178.19
RE DISCCART	455400.0	4614100.0	178.19	178.19
RE DISCCART	455500.0	4614100.0	178.19	178.19
RE DISCCART	455600.0	4614100.0	179.6	179.6
RE DISCCART	455700.0	4614100.0	180.56	180.56
RE DISCCART	455800.0	4614100.0	181.09	181.09
RE DISCCART	455900.0	4614100.0	181.05	181.05
RE DISCCART	456000.0	4614100.0	181.04	181.04
RE DISCCART	456100.0	4614100.0	181.04	181.04
RE DISCCART	456200.0	4614100.0	180.17	180.17
RE DISCCART	456300.0	4614100.0	178.77	178.77
RE DISCCART	456400.0	4614100.0	178.5	178.5
RE DISCCART	456500.0	4614100.0	184.04	184.04
RE DISCCART	456600.0	4614100.0	179.04	179.04
RE DISCCART	452000.0	4614200.0	178.93	178.93
RE DISCCART	452100.0	4614200.0	179.54	198.06
RE DISCCART	452200.0	4614200.0	197.13	197.13

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RE DISCCART	452300.0	4614200.0	190.9	197.91
RE DISCCART	452400.0	4614200.0	179.36	198.45
RE DISCCART	452500.0	4614200.0	183.24	183.24
RE DISCCART	452600.0	4614200.0	181.18	181.18
RE DISCCART	452700.0	4614200.0	180.83	180.83
RE DISCCART	452800.0	4614200.0	180.61	180.61
RE DISCCART	452900.0	4614200.0	180.79	180.79
RE DISCCART	453000.0	4614200.0	180.07	180.07
RE DISCCART	453100.0	4614200.0	178.31	178.31
RE DISCCART	453200.0	4614200.0	178.73	178.73
RE DISCCART	453300.0	4614200.0	178.8	178.8
RE DISCCART	453400.0	4614200.0	178.39	178.39
RE DISCCART	453500.0	4614200.0	179.6	179.6
RE DISCCART	453600.0	4614200.0	178.69	178.69
RE DISCCART	453700.0	4614200.0	179.02	179.02
RE DISCCART	453800.0	4614200.0	179.71	179.71
RE DISCCART	453900.0	4614200.0	179.09	179.09
RE DISCCART	454000.0	4614200.0	175.42	178.
RE DISCCART	454300.0	4614200.0	178.19	178.19
RE DISCCART	454400.0	4614200.0	178.19	178.19
RE DISCCART	454500.0	4614200.0	178.19	178.19
RE DISCCART	454600.0	4614200.0	178.19	178.19
RE DISCCART	454700.0	4614200.0	178.19	178.19
RE DISCCART	454800.0	4614200.0	178.19	178.19
RE DISCCART	454900.0	4614200.0	178.19	178.19
RE DISCCART	455000.0	4614200.0	178.19	178.19
RE DISCCART	455100.0	4614200.0	178.19	178.19
RE DISCCART	455200.0	4614200.0	178.19	178.19
RE DISCCART	455300.0	4614200.0	178.19	178.19
RE DISCCART	455400.0	4614200.0	178.19	178.19
RE DISCCART	455500.0	4614200.0	178.19	178.19
RE DISCCART	455600.0	4614200.0	178.63	178.63
RE DISCCART	455700.0	4614200.0	179.95	179.95
RE DISCCART	455800.0	4614200.0	180.45	180.45
RE DISCCART	455900.0	4614200.0	180.74	180.74
RE DISCCART	456000.0	4614200.0	180.81	180.81
RE DISCCART	456100.0	4614200.0	180.77	180.77
RE DISCCART	456200.0	4614200.0	179.77	179.77
RE DISCCART	456300.0	4614200.0	179.16	179.16
RE DISCCART	456400.0	4614200.0	178.38	178.38
RE DISCCART	456500.0	4614200.0	185.68	185.68
RE DISCCART	456600.0	4614200.0	178.92	178.92
RE DISCCART	452000.0	4614300.0	178.79	178.79
RE DISCCART	452100.0	4614300.0	179.54	198.44
RE DISCCART	452200.0	4614300.0	196.96	196.96
RE DISCCART	452300.0	4614300.0	195.32	197.99
RE DISCCART	452400.0	4614300.0	179.88	207.67
RE DISCCART	452500.0	4614300.0	180.64	180.64

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RE DISCCART	452600.0	4614300.0	181.19	181.19
RE DISCCART	452700.0	4614300.0	180.86	180.86
RE DISCCART	452800.0	4614300.0	180.67	180.67
RE DISCCART	452900.0	4614300.0	180.33	180.33
RE DISCCART	453000.0	4614300.0	179.92	179.92
RE DISCCART	453100.0	4614300.0	178.28	178.28
RE DISCCART	453200.0	4614300.0	178.62	178.62
RE DISCCART	453300.0	4614300.0	178.72	178.72
RE DISCCART	453400.0	4614300.0	178.4	178.4
RE DISCCART	453500.0	4614300.0	179.56	179.56
RE DISCCART	453600.0	4614300.0	178.57	178.57
RE DISCCART	453700.0	4614300.0	179.36	179.36
RE DISCCART	453800.0	4614300.0	179.09	179.09
RE DISCCART	453900.0	4614300.0	179.09	179.09
RE DISCCART	454000.0	4614300.0	175.57	179.43
RE DISCCART	454400.0	4614300.0	178.19	178.19
RE DISCCART	454500.0	4614300.0	178.19	178.19
RE DISCCART	454600.0	4614300.0	178.19	178.19
RE DISCCART	454700.0	4614300.0	178.19	178.19
RE DISCCART	454800.0	4614300.0	178.19	178.19
RE DISCCART	454900.0	4614300.0	178.19	178.19
RE DISCCART	455000.0	4614300.0	178.19	178.19
RE DISCCART	455100.0	4614300.0	178.19	178.19
RE DISCCART	455200.0	4614300.0	178.19	178.19
RE DISCCART	455300.0	4614300.0	178.19	178.19
RE DISCCART	455400.0	4614300.0	178.19	178.19
RE DISCCART	455500.0	4614300.0	178.19	178.19
RE DISCCART	455600.0	4614300.0	178.2	178.2
RE DISCCART	455700.0	4614300.0	179.16	179.16
RE DISCCART	455800.0	4614300.0	180.06	180.06
RE DISCCART	455900.0	4614300.0	180.42	180.42
RE DISCCART	456000.0	4614300.0	180.52	180.52
RE DISCCART	456100.0	4614300.0	180.76	180.76
RE DISCCART	456200.0	4614300.0	180.53	180.53
RE DISCCART	456300.0	4614300.0	179.71	179.71
RE DISCCART	456400.0	4614300.0	178.79	178.79
RE DISCCART	456500.0	4614300.0	186.67	186.67
RE DISCCART	456600.0	4614300.0	178.51	178.51
RE DISCCART	452000.0	4614400.0	178.88	178.88
RE DISCCART	452100.0	4614400.0	179.64	209.4
RE DISCCART	452200.0	4614400.0	189.91	197.97
RE DISCCART	452300.0	4614400.0	182.14	209.86
RE DISCCART	452400.0	4614400.0	180.84	209.89
RE DISCCART	452500.0	4614400.0	181.52	209.73
RE DISCCART	452600.0	4614400.0	182.58	209.73
RE DISCCART	452700.0	4614400.0	183.21	207.94
RE DISCCART	452800.0	4614400.0	180.86	180.86
RE DISCCART	452900.0	4614400.0	180.43	180.43

Phosphorus_2013_OTHER.DTA

RE DISCCART	453000.0	4614400.0	179.93	179.93
RE DISCCART	453100.0	4614400.0	178.28	178.28
RE DISCCART	453200.0	4614400.0	178.57	178.57
RE DISCCART	453300.0	4614400.0	178.59	178.59
RE DISCCART	453400.0	4614400.0	178.36	178.36
RE DISCCART	453500.0	4614400.0	179.53	179.53
RE DISCCART	453600.0	4614400.0	178.42	178.42
RE DISCCART	453700.0	4614400.0	178.26	178.26
RE DISCCART	453800.0	4614400.0	179.25	179.25
RE DISCCART	453900.0	4614400.0	179.09	179.09
RE DISCCART	454000.0	4614400.0	175.74	179.36
RE DISCCART	454100.0	4614400.0	176.57	176.57
RE DISCCART	454600.0	4614400.0	178.19	178.19
RE DISCCART	454700.0	4614400.0	178.19	178.19
RE DISCCART	454800.0	4614400.0	178.19	178.19
RE DISCCART	454900.0	4614400.0	178.19	178.19
RE DISCCART	455000.0	4614400.0	178.19	178.19
RE DISCCART	455100.0	4614400.0	178.19	178.19
RE DISCCART	455200.0	4614400.0	178.19	178.19
RE DISCCART	455300.0	4614400.0	178.19	178.19
RE DISCCART	455400.0	4614400.0	178.19	178.19
RE DISCCART	455500.0	4614400.0	178.19	178.19
RE DISCCART	455600.0	4614400.0	178.19	178.19
RE DISCCART	455700.0	4614400.0	178.49	178.49
RE DISCCART	455800.0	4614400.0	179.75	179.75
RE DISCCART	455900.0	4614400.0	179.98	179.98
RE DISCCART	456000.0	4614400.0	180.08	180.08
RE DISCCART	456100.0	4614400.0	180.33	180.33
RE DISCCART	456200.0	4614400.0	180.14	180.14
RE DISCCART	456300.0	4614400.0	180.1	180.1
RE DISCCART	456400.0	4614400.0	179.18	179.18
RE DISCCART	456500.0	4614400.0	183.97	187.29
RE DISCCART	456600.0	4614400.0	178.1	187.29
RE DISCCART	452000.0	4614500.0	178.92	209.34
RE DISCCART	452100.0	4614500.0	179.63	209.73
RE DISCCART	452200.0	4614500.0	181.94	209.9
RE DISCCART	452300.0	4614500.0	184.57	209.9
RE DISCCART	452400.0	4614500.0	185.99	209.9
RE DISCCART	452500.0	4614500.0	186.21	209.89
RE DISCCART	452600.0	4614500.0	187.94	209.73
RE DISCCART	452700.0	4614500.0	183.09	209.73
RE DISCCART	452800.0	4614500.0	181.1	207.94
RE DISCCART	452900.0	4614500.0	180.76	180.76
RE DISCCART	453000.0	4614500.0	179.97	179.97
RE DISCCART	453100.0	4614500.0	177.09	177.09
RE DISCCART	453200.0	4614500.0	178.51	178.51
RE DISCCART	453300.0	4614500.0	178.6	178.6
RE DISCCART	453400.0	4614500.0	178.4	178.4

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RE DISCCART 453500.0 4614500.0 178.3 178.3
RE DISCCART 453600.0 4614500.0 178.45 178.45
RE DISCCART 453700.0 4614500.0 178.29 178.29
RE DISCCART 453800.0 4614500.0 178.72 178.72
RE DISCCART 453900.0 4614500.0 179. 179.
RE DISCCART 454000.0 4614500.0 175.88 179.42
RE DISCCART 454100.0 4614500.0 175.68 178.19
RE DISCCART 454600.0 4614500.0 178.19 178.19
RE DISCCART 454700.0 4614500.0 178.19 178.19
RE DISCCART 454800.0 4614500.0 178.19 178.19
RE DISCCART 454900.0 4614500.0 178.19 178.19
RE DISCCART 455000.0 4614500.0 178.19 178.19
RE DISCCART 455100.0 4614500.0 178.19 178.19
RE DISCCART 455200.0 4614500.0 178.19 178.19
RE DISCCART 455300.0 4614500.0 178.19 178.19
RE DISCCART 455400.0 4614500.0 178.19 178.19
RE DISCCART 455500.0 4614500.0 178.19 178.19
RE DISCCART 455600.0 4614500.0 178.19 178.19
RE DISCCART 455700.0 4614500.0 178.19 178.19
RE DISCCART 455800.0 4614500.0 178.31 178.31
RE DISCCART 455900.0 4614500.0 178.95 178.95
RE DISCCART 456000.0 4614500.0 178.19 178.19
RE DISCCART 456100.0 4614500.0 177.84 177.84
RE DISCCART 456200.0 4614500.0 177.96 177.96
RE DISCCART 456300.0 4614500.0 177.94 177.94
RE DISCCART 456400.0 4614500.0 179.71 179.71
RE DISCCART 456500.0 4614500.0 178.56 186.45
RE DISCCART 456600.0 4614500.0 178.36 178.36
RE DISCCART 452000.0 4614600.0 178.9 209.55
RE DISCCART 452100.0 4614600.0 180.26 209.9
RE DISCCART 452200.0 4614600.0 203.8 208.92
RE DISCCART 452300.0 4614600.0 208.72 208.72
RE DISCCART 452400.0 4614600.0 209.12 209.12
RE DISCCART 452500.0 4614600.0 209.2 209.2
RE DISCCART 452600.0 4614600.0 196.42 209.73
RE DISCCART 452700.0 4614600.0 183.46 209.73
RE DISCCART 452800.0 4614600.0 182.18 207.94
RE DISCCART 452900.0 4614600.0 181.41 181.41
RE DISCCART 453000.0 4614600.0 180.16 180.16
RE DISCCART 453100.0 4614600.0 177.17 177.17
RE DISCCART 453200.0 4614600.0 177.04 177.04
RE DISCCART 453300.0 4614600.0 178.49 178.49
RE DISCCART 453400.0 4614600.0 178.39 178.39
RE DISCCART 453500.0 4614600.0 178.29 178.29
RE DISCCART 453600.0 4614600.0 178.33 178.33
RE DISCCART 453700.0 4614600.0 178.35 178.35
RE DISCCART 453800.0 4614600.0 178.61 178.61
RE DISCCART 453900.0 4614600.0 178.92 178.92

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RE DISCCART	454000.0	4614600.0	175.99	179.37
RE DISCCART	454100.0	4614600.0	175.6	178.19
RE DISCCART	454600.0	4614600.0	178.19	178.19
RE DISCCART	454700.0	4614600.0	178.19	178.19
RE DISCCART	454800.0	4614600.0	178.19	178.19
RE DISCCART	454900.0	4614600.0	178.19	178.19
RE DISCCART	455000.0	4614600.0	178.19	178.19
RE DISCCART	455100.0	4614600.0	178.19	178.19
RE DISCCART	455200.0	4614600.0	178.19	178.19
RE DISCCART	455300.0	4614600.0	178.19	178.19
RE DISCCART	455400.0	4614600.0	178.19	178.19
RE DISCCART	455500.0	4614600.0	178.19	178.19
RE DISCCART	455600.0	4614600.0	178.19	178.19
RE DISCCART	455700.0	4614600.0	178.19	178.19
RE DISCCART	455800.0	4614600.0	178.19	178.19
RE DISCCART	455900.0	4614600.0	178.69	178.69
RE DISCCART	456000.0	4614600.0	178.19	178.19
RE DISCCART	456100.0	4614600.0	177.59	177.59
RE DISCCART	456200.0	4614600.0	177.82	177.82
RE DISCCART	456300.0	4614600.0	178.03	178.03
RE DISCCART	456400.0	4614600.0	180.27	180.27
RE DISCCART	456500.0	4614600.0	182.16	184.29
RE DISCCART	456600.0	4614600.0	178.17	178.17
RE DISCCART	452000.0	4614700.0	178.61	209.55
RE DISCCART	452100.0	4614700.0	182.05	209.9
RE DISCCART	452200.0	4614700.0	204.96	205.33
RE DISCCART	452300.0	4614700.0	209.03	209.03
RE DISCCART	452400.0	4614700.0	209.72	209.72
RE DISCCART	452500.0	4614700.0	206.37	206.67
RE DISCCART	452600.0	4614700.0	189.84	209.73
RE DISCCART	452700.0	4614700.0	181.74	209.73
RE DISCCART	452800.0	4614700.0	181.84	181.84
RE DISCCART	452900.0	4614700.0	179.74	179.74
RE DISCCART	453000.0	4614700.0	179.51	179.51
RE DISCCART	453100.0	4614700.0	177.25	177.25
RE DISCCART	453200.0	4614700.0	178.39	178.39
RE DISCCART	453300.0	4614700.0	178.39	178.39
RE DISCCART	453400.0	4614700.0	178.29	178.29
RE DISCCART	453500.0	4614700.0	178.29	178.29
RE DISCCART	453600.0	4614700.0	178.29	178.29
RE DISCCART	453700.0	4614700.0	178.49	178.49
RE DISCCART	453800.0	4614700.0	178.54	178.54
RE DISCCART	453900.0	4614700.0	178.7	178.7
RE DISCCART	454000.0	4614700.0	175.65	175.65
RE DISCCART	454100.0	4614700.0	178.51	178.51
RE DISCCART	454600.0	4614700.0	178.19	178.19
RE DISCCART	454700.0	4614700.0	178.19	178.19
RE DISCCART	454800.0	4614700.0	178.19	178.19

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RE DISCCART	454900.0	4614700.0	178.19	178.19
RE DISCCART	455000.0	4614700.0	178.19	178.19
RE DISCCART	455100.0	4614700.0	178.19	178.19
RE DISCCART	455200.0	4614700.0	178.19	178.19
RE DISCCART	455300.0	4614700.0	178.19	178.19
RE DISCCART	455400.0	4614700.0	178.19	178.19
RE DISCCART	455500.0	4614700.0	178.19	178.19
RE DISCCART	455600.0	4614700.0	178.19	178.19
RE DISCCART	455700.0	4614700.0	178.19	178.19
RE DISCCART	455800.0	4614700.0	178.19	178.19
RE DISCCART	455900.0	4614700.0	178.26	178.26
RE DISCCART	456000.0	4614700.0	178.19	178.19
RE DISCCART	456100.0	4614700.0	177.49	177.49
RE DISCCART	456200.0	4614700.0	177.74	177.74
RE DISCCART	456300.0	4614700.0	177.8	177.8
RE DISCCART	456400.0	4614700.0	180.18	180.18
RE DISCCART	456500.0	4614700.0	181.96	186.77
RE DISCCART	456600.0	4614700.0	178.38	186.77
RE DISCCART	452000.0	4614800.0	178.29	208.98
RE DISCCART	452100.0	4614800.0	180.94	209.9
RE DISCCART	452200.0	4614800.0	183.21	209.9
RE DISCCART	452300.0	4614800.0	200.55	209.75
RE DISCCART	452400.0	4614800.0	201.	209.89
RE DISCCART	452500.0	4614800.0	200.47	206.65
RE DISCCART	452600.0	4614800.0	187.78	209.75
RE DISCCART	452700.0	4614800.0	179.32	209.75
RE DISCCART	452800.0	4614800.0	183.44	183.44
RE DISCCART	452900.0	4614800.0	180.	180.
RE DISCCART	453000.0	4614800.0	178.29	178.29
RE DISCCART	453100.0	4614800.0	178.3	178.3
RE DISCCART	453200.0	4614800.0	178.29	178.29
RE DISCCART	453300.0	4614800.0	178.29	178.29
RE DISCCART	453400.0	4614800.0	178.29	178.29
RE DISCCART	453500.0	4614800.0	178.29	178.29
RE DISCCART	453600.0	4614800.0	178.29	178.29
RE DISCCART	453700.0	4614800.0	178.48	178.48
RE DISCCART	453800.0	4614800.0	178.49	178.49
RE DISCCART	453900.0	4614800.0	178.71	178.71
RE DISCCART	454000.0	4614800.0	175.37	175.37
RE DISCCART	454600.0	4614800.0	178.19	178.19
RE DISCCART	454700.0	4614800.0	178.19	178.19
RE DISCCART	454800.0	4614800.0	178.19	178.19
RE DISCCART	454900.0	4614800.0	178.19	178.19
RE DISCCART	455000.0	4614800.0	178.19	178.19
RE DISCCART	455100.0	4614800.0	178.19	178.19
RE DISCCART	455200.0	4614800.0	178.19	178.19
RE DISCCART	455300.0	4614800.0	178.19	178.19
RE DISCCART	455400.0	4614800.0	178.19	178.19

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RE DISCCART	455500.0	4614800.0	178.19	178.19
RE DISCCART	455600.0	4614800.0	178.19	178.19
RE DISCCART	455700.0	4614800.0	178.19	178.19
RE DISCCART	455800.0	4614800.0	178.19	178.19
RE DISCCART	455900.0	4614800.0	178.19	178.19
RE DISCCART	456000.0	4614800.0	178.23	178.23
RE DISCCART	456100.0	4614800.0	177.61	177.61
RE DISCCART	456200.0	4614800.0	177.43	177.43
RE DISCCART	456300.0	4614800.0	177.7	177.7
RE DISCCART	456400.0	4614800.0	180.12	180.12
RE DISCCART	456500.0	4614800.0	180.3	186.14
RE DISCCART	456600.0	4614800.0	178.78	186.03
RE DISCCART	452000.0	4614900.0	178.29	178.29
RE DISCCART	452100.0	4614900.0	178.31	209.84
RE DISCCART	452200.0	4614900.0	178.29	209.9
RE DISCCART	452300.0	4614900.0	178.3	209.9
RE DISCCART	452400.0	4614900.0	178.35	209.9
RE DISCCART	452500.0	4614900.0	178.44	209.9
RE DISCCART	452600.0	4614900.0	178.52	209.9
RE DISCCART	452700.0	4614900.0	178.29	206.67
RE DISCCART	452800.0	4614900.0	178.3	178.3
RE DISCCART	452900.0	4614900.0	178.32	178.32
RE DISCCART	453000.0	4614900.0	178.29	178.29
RE DISCCART	453100.0	4614900.0	178.29	178.29
RE DISCCART	453200.0	4614900.0	178.29	178.29
RE DISCCART	453300.0	4614900.0	178.29	178.29
RE DISCCART	453400.0	4614900.0	178.29	178.29
RE DISCCART	453500.0	4614900.0	178.29	178.29
RE DISCCART	453600.0	4614900.0	178.29	178.29
RE DISCCART	453700.0	4614900.0	178.49	178.49
RE DISCCART	453800.0	4614900.0	178.53	178.53
RE DISCCART	453900.0	4614900.0	178.34	178.34
RE DISCCART	454000.0	4614900.0	175.19	175.19
RE DISCCART	454600.0	4614900.0	178.19	178.19
RE DISCCART	454700.0	4614900.0	178.19	178.19
RE DISCCART	454800.0	4614900.0	178.19	178.19
RE DISCCART	454900.0	4614900.0	178.19	178.19
RE DISCCART	455000.0	4614900.0	178.19	178.19
RE DISCCART	455100.0	4614900.0	178.19	178.19
RE DISCCART	455200.0	4614900.0	178.19	178.19
RE DISCCART	455300.0	4614900.0	178.19	178.19
RE DISCCART	455400.0	4614900.0	178.19	178.19
RE DISCCART	455500.0	4614900.0	178.19	178.19
RE DISCCART	455600.0	4614900.0	178.19	178.19
RE DISCCART	455700.0	4614900.0	178.19	178.19
RE DISCCART	455800.0	4614900.0	178.19	178.19
RE DISCCART	455900.0	4614900.0	178.19	178.19
RE DISCCART	456000.0	4614900.0	178.19	178.19

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RE DISCCART	456100.0	4614900.0	178.65	178.65
RE DISCCART	456200.0	4614900.0	177.43	177.43
RE DISCCART	456300.0	4614900.0	177.7	177.7
RE DISCCART	456400.0	4614900.0	179.63	179.63
RE DISCCART	456500.0	4614900.0	179.68	184.84
RE DISCCART	456600.0	4614900.0	178.98	184.25
RE DISCCART	452000.0	4615000.0	178.29	178.29
RE DISCCART	452100.0	4615000.0	178.29	178.29
RE DISCCART	452200.0	4615000.0	178.29	209.75
RE DISCCART	452300.0	4615000.0	178.29	209.9
RE DISCCART	452400.0	4615000.0	178.29	209.9
RE DISCCART	452500.0	4615000.0	178.29	209.89
RE DISCCART	452600.0	4615000.0	178.29	209.75
RE DISCCART	452700.0	4615000.0	178.29	178.29
RE DISCCART	452800.0	4615000.0	178.29	178.29
RE DISCCART	452900.0	4615000.0	178.29	178.29
RE DISCCART	453000.0	4615000.0	178.29	178.29
RE DISCCART	453100.0	4615000.0	178.29	178.29
RE DISCCART	453200.0	4615000.0	178.29	178.29
RE DISCCART	453300.0	4615000.0	178.29	178.29
RE DISCCART	453400.0	4615000.0	178.29	178.29
RE DISCCART	453500.0	4615000.0	178.29	178.29
RE DISCCART	453600.0	4615000.0	178.29	178.29
RE DISCCART	453700.0	4615000.0	178.39	178.39
RE DISCCART	453800.0	4615000.0	178.39	178.39
RE DISCCART	453900.0	4615000.0	178.42	178.42
RE DISCCART	454000.0	4615000.0	175.19	175.19
RE DISCCART	454600.0	4615000.0	178.19	178.19
RE DISCCART	454700.0	4615000.0	178.19	178.19
RE DISCCART	454800.0	4615000.0	178.27	178.27
RE DISCCART	454900.0	4615000.0	178.19	178.19
RE DISCCART	455000.0	4615000.0	178.19	178.19
RE DISCCART	455100.0	4615000.0	178.19	178.19
RE DISCCART	455200.0	4615000.0	178.19	178.19
RE DISCCART	455300.0	4615000.0	178.19	178.19
RE DISCCART	455400.0	4615000.0	178.19	178.19
RE DISCCART	455500.0	4615000.0	178.19	178.19
RE DISCCART	455600.0	4615000.0	178.19	178.19
RE DISCCART	455700.0	4615000.0	178.19	178.19
RE DISCCART	455800.0	4615000.0	178.19	178.19
RE DISCCART	455900.0	4615000.0	178.19	178.19
RE DISCCART	456000.0	4615000.0	178.19	178.19
RE DISCCART	456100.0	4615000.0	178.05	178.05
RE DISCCART	456200.0	4615000.0	178.26	178.26
RE DISCCART	456300.0	4615000.0	177.64	177.64
RE DISCCART	456400.0	4615000.0	179.49	179.49
RE DISCCART	456500.0	4615000.0	179.26	182.74
RE DISCCART	456600.0	4615000.0	179.42	182.36

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RE DISCCART	452000.0	4615100.0	178.29	178.29
RE DISCCART	452100.0	4615100.0	177.98	177.98
RE DISCCART	452200.0	4615100.0	177.62	177.62
RE DISCCART	452300.0	4615100.0	178.29	178.29
RE DISCCART	452400.0	4615100.0	178.29	178.29
RE DISCCART	452500.0	4615100.0	178.29	178.29
RE DISCCART	452600.0	4615100.0	178.29	178.29
RE DISCCART	452700.0	4615100.0	178.29	178.29
RE DISCCART	452800.0	4615100.0	178.29	178.29
RE DISCCART	452900.0	4615100.0	178.29	178.29
RE DISCCART	453000.0	4615100.0	178.29	178.29
RE DISCCART	453100.0	4615100.0	178.34	178.34
RE DISCCART	453200.0	4615100.0	178.39	178.39
RE DISCCART	453300.0	4615100.0	178.29	178.29
RE DISCCART	453400.0	4615100.0	178.29	178.29
RE DISCCART	453500.0	4615100.0	178.29	178.29
RE DISCCART	453600.0	4615100.0	178.29	178.29
RE DISCCART	453700.0	4615100.0	178.29	178.29
RE DISCCART	453800.0	4615100.0	178.29	178.29
RE DISCCART	453900.0	4615100.0	178.29	178.29
RE DISCCART	454000.0	4615100.0	175.19	175.19
RE DISCCART	454100.0	4615100.0	178.18	178.18
RE DISCCART	454600.0	4615100.0	178.19	178.19
RE DISCCART	454700.0	4615100.0	178.19	178.19
RE DISCCART	454800.0	4615100.0	178.19	178.19
RE DISCCART	454900.0	4615100.0	178.19	178.19
RE DISCCART	455000.0	4615100.0	178.19	178.19
RE DISCCART	455100.0	4615100.0	178.19	178.19
RE DISCCART	455200.0	4615100.0	178.19	178.19
RE DISCCART	455300.0	4615100.0	178.19	178.19
RE DISCCART	455400.0	4615100.0	178.19	178.19
RE DISCCART	455500.0	4615100.0	178.19	178.19
RE DISCCART	455600.0	4615100.0	178.19	178.19
RE DISCCART	455700.0	4615100.0	178.19	178.19
RE DISCCART	455800.0	4615100.0	178.19	178.19
RE DISCCART	455900.0	4615100.0	178.19	178.19
RE DISCCART	456000.0	4615100.0	178.19	178.19
RE DISCCART	456100.0	4615100.0	177.83	177.83
RE DISCCART	456200.0	4615100.0	177.91	177.91
RE DISCCART	456300.0	4615100.0	177.88	177.88
RE DISCCART	456400.0	4615100.0	179.68	179.68
RE DISCCART	456500.0	4615100.0	179.97	179.97
RE DISCCART	456600.0	4615100.0	179.97	179.97
RE DISCCART	452000.0	4615200.0	178.29	178.29
RE DISCCART	452100.0	4615200.0	177.59	177.59
RE DISCCART	452200.0	4615200.0	178.28	178.28
RE DISCCART	452300.0	4615200.0	178.29	178.29
RE DISCCART	452400.0	4615200.0	178.29	178.29

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RE DISCCART	452500.0	4615200.0	178.29	178.29
RE DISCCART	452600.0	4615200.0	178.29	178.29
RE DISCCART	452700.0	4615200.0	178.29	178.29
RE DISCCART	452800.0	4615200.0	178.29	178.29
RE DISCCART	452900.0	4615200.0	178.29	178.29
RE DISCCART	453000.0	4615200.0	178.29	178.29
RE DISCCART	453100.0	4615200.0	178.33	178.33
RE DISCCART	453200.0	4615200.0	178.49	178.49
RE DISCCART	453300.0	4615200.0	178.29	178.29
RE DISCCART	453400.0	4615200.0	178.29	178.29
RE DISCCART	453500.0	4615200.0	178.29	178.29
RE DISCCART	453600.0	4615200.0	178.29	178.29
RE DISCCART	453700.0	4615200.0	178.29	178.29
RE DISCCART	453800.0	4615200.0	178.29	178.29
RE DISCCART	453900.0	4615200.0	178.32	178.32
RE DISCCART	454000.0	4615200.0	175.53	175.53
RE DISCCART	454100.0	4615200.0	178.1	178.1
RE DISCCART	454200.0	4615200.0	178.19	178.19
RE DISCCART	454600.0	4615200.0	178.19	178.19
RE DISCCART	454700.0	4615200.0	178.19	178.19
RE DISCCART	454800.0	4615200.0	178.19	178.19
RE DISCCART	454900.0	4615200.0	178.19	178.19
RE DISCCART	455000.0	4615200.0	178.19	178.19
RE DISCCART	455100.0	4615200.0	178.19	178.19
RE DISCCART	455200.0	4615200.0	178.19	178.19
RE DISCCART	455300.0	4615200.0	178.19	178.19
RE DISCCART	455400.0	4615200.0	178.19	178.19
RE DISCCART	455500.0	4615200.0	178.19	178.19
RE DISCCART	455600.0	4615200.0	178.19	178.19
RE DISCCART	455700.0	4615200.0	178.19	178.19
RE DISCCART	455800.0	4615200.0	178.19	178.19
RE DISCCART	455900.0	4615200.0	178.19	178.19
RE DISCCART	456000.0	4615200.0	178.19	178.19
RE DISCCART	456100.0	4615200.0	178.08	178.08
RE DISCCART	456200.0	4615200.0	178.2	178.2
RE DISCCART	456300.0	4615200.0	177.94	177.94
RE DISCCART	456400.0	4615200.0	179.33	179.33
RE DISCCART	456500.0	4615200.0	181.3	181.3
RE DISCCART	456600.0	4615200.0	181.38	181.38
RE DISCCART	452000.0	4615300.0	178.29	178.29
RE DISCCART	452100.0	4615300.0	177.34	177.34
RE DISCCART	452200.0	4615300.0	178.29	178.29
RE DISCCART	452300.0	4615300.0	177.69	177.69
RE DISCCART	452400.0	4615300.0	177.71	177.71
RE DISCCART	452500.0	4615300.0	177.73	177.73
RE DISCCART	452600.0	4615300.0	177.75	177.75
RE DISCCART	452700.0	4615300.0	178.29	178.29
RE DISCCART	452800.0	4615300.0	178.29	178.29

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RE DISCCART	452900.0	4615300.0	178.29	178.29
RE DISCCART	453000.0	4615300.0	178.29	178.29
RE DISCCART	453100.0	4615300.0	178.36	178.36
RE DISCCART	453200.0	4615300.0	178.6	178.6
RE DISCCART	453300.0	4615300.0	178.46	178.46
RE DISCCART	453400.0	4615300.0	178.29	178.29
RE DISCCART	453500.0	4615300.0	178.29	178.29
RE DISCCART	453600.0	4615300.0	178.29	178.29
RE DISCCART	453700.0	4615300.0	178.29	178.29
RE DISCCART	453800.0	4615300.0	178.29	178.29
RE DISCCART	453900.0	4615300.0	178.42	178.42
RE DISCCART	454000.0	4615300.0	175.46	175.46
RE DISCCART	454100.0	4615300.0	178.41	178.41
RE DISCCART	454200.0	4615300.0	178.19	178.19
RE DISCCART	454300.0	4615300.0	178.19	178.19
RE DISCCART	454400.0	4615300.0	178.19	178.19
RE DISCCART	454500.0	4615300.0	178.19	178.19
RE DISCCART	454600.0	4615300.0	178.19	178.19
RE DISCCART	454700.0	4615300.0	178.19	178.19
RE DISCCART	454800.0	4615300.0	178.19	178.19
RE DISCCART	454900.0	4615300.0	178.19	178.19
RE DISCCART	455000.0	4615300.0	178.19	178.19
RE DISCCART	455100.0	4615300.0	178.19	178.19
RE DISCCART	455200.0	4615300.0	178.19	178.19
RE DISCCART	455300.0	4615300.0	178.19	178.19
RE DISCCART	455400.0	4615300.0	178.19	178.19
RE DISCCART	455500.0	4615300.0	178.19	178.19
RE DISCCART	455600.0	4615300.0	178.19	178.19
RE DISCCART	455700.0	4615300.0	178.19	178.19
RE DISCCART	455800.0	4615300.0	178.19	178.19
RE DISCCART	455900.0	4615300.0	178.19	178.19
RE DISCCART	456000.0	4615300.0	178.19	178.19
RE DISCCART	456100.0	4615300.0	178.26	178.26
RE DISCCART	456200.0	4615300.0	178.21	178.21
RE DISCCART	456300.0	4615300.0	177.86	177.86
RE DISCCART	456400.0	4615300.0	179.55	179.55
RE DISCCART	456500.0	4615300.0	182.27	182.27
RE DISCCART	456600.0	4615300.0	181.83	181.83
RE DISCCART	452000.0	4615400.0	178.29	178.29
RE DISCCART	452100.0	4615400.0	178.16	178.16
RE DISCCART	452200.0	4615400.0	177.99	177.99
RE DISCCART	452300.0	4615400.0	176.99	176.99
RE DISCCART	452400.0	4615400.0	176.99	176.99
RE DISCCART	452500.0	4615400.0	176.99	176.99
RE DISCCART	452600.0	4615400.0	177.01	177.01
RE DISCCART	452700.0	4615400.0	177.09	177.09
RE DISCCART	452800.0	4615400.0	176.99	176.99
RE DISCCART	452900.0	4615400.0	178.29	178.29

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RE DISCCART	453000.0	4615400.0	178.29	178.29
RE DISCCART	453100.0	4615400.0	178.38	178.38
RE DISCCART	453200.0	4615400.0	178.54	178.54
RE DISCCART	453300.0	4615400.0	178.63	178.63
RE DISCCART	453400.0	4615400.0	178.29	178.29
RE DISCCART	453500.0	4615400.0	178.29	178.29
RE DISCCART	453600.0	4615400.0	178.34	178.34
RE DISCCART	453700.0	4615400.0	178.29	178.29
RE DISCCART	453800.0	4615400.0	178.39	178.39
RE DISCCART	453900.0	4615400.0	178.44	178.44
RE DISCCART	454000.0	4615400.0	175.42	175.42
RE DISCCART	454100.0	4615400.0	178.56	178.56
RE DISCCART	454200.0	4615400.0	178.19	178.19
RE DISCCART	454300.0	4615400.0	178.19	178.19
RE DISCCART	454400.0	4615400.0	178.19	178.19
RE DISCCART	454500.0	4615400.0	178.19	178.19
RE DISCCART	454600.0	4615400.0	178.19	178.19
RE DISCCART	454700.0	4615400.0	178.19	178.19
RE DISCCART	454800.0	4615400.0	178.19	178.19
RE DISCCART	454900.0	4615400.0	178.19	178.19
RE DISCCART	455000.0	4615400.0	178.19	178.19
RE DISCCART	455100.0	4615400.0	178.19	178.19
RE DISCCART	455200.0	4615400.0	178.19	178.19
RE DISCCART	455300.0	4615400.0	178.19	178.19
RE DISCCART	455400.0	4615400.0	178.19	178.19
RE DISCCART	455500.0	4615400.0	178.19	178.19
RE DISCCART	455600.0	4615400.0	178.19	178.19
RE DISCCART	455700.0	4615400.0	178.19	178.19
RE DISCCART	455800.0	4615400.0	178.19	178.19
RE DISCCART	455900.0	4615400.0	178.19	178.19
RE DISCCART	456000.0	4615400.0	178.19	178.19
RE DISCCART	456100.0	4615400.0	178.21	178.21
RE DISCCART	456200.0	4615400.0	178.22	178.22
RE DISCCART	456300.0	4615400.0	177.8	177.8
RE DISCCART	456400.0	4615400.0	179.57	179.57
RE DISCCART	456500.0	4615400.0	181.06	181.06
RE DISCCART	456600.0	4615400.0	182.26	182.26
RE DISCCART	452000.0	4615500.0	178.29	178.29
RE DISCCART	452100.0	4615500.0	178.29	178.29
RE DISCCART	452200.0	4615500.0	178.29	178.29
RE DISCCART	452300.0	4615500.0	176.99	176.99
RE DISCCART	452400.0	4615500.0	176.99	176.99
RE DISCCART	452500.0	4615500.0	176.99	176.99
RE DISCCART	452600.0	4615500.0	178.29	178.29
RE DISCCART	452700.0	4615500.0	176.99	176.99
RE DISCCART	452800.0	4615500.0	176.99	176.99
RE DISCCART	452900.0	4615500.0	178.29	178.29
RE DISCCART	453000.0	4615500.0	178.29	178.29

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RE DISCCART	453100.0	4615500.0	178.39	178.39
RE DISCCART	453200.0	4615500.0	178.6	178.6
RE DISCCART	453300.0	4615500.0	178.68	178.68
RE DISCCART	453400.0	4615500.0	178.35	178.35
RE DISCCART	453500.0	4615500.0	178.29	178.29
RE DISCCART	453600.0	4615500.0	178.58	178.58
RE DISCCART	453700.0	4615500.0	178.42	178.42
RE DISCCART	453800.0	4615500.0	178.58	178.58
RE DISCCART	453900.0	4615500.0	178.31	178.31
RE DISCCART	454000.0	4615500.0	175.62	178.29
RE DISCCART	454100.0	4615500.0	176.8	176.8
RE DISCCART	454200.0	4615500.0	178.19	178.19
RE DISCCART	454300.0	4615500.0	178.19	178.19
RE DISCCART	454400.0	4615500.0	178.19	178.19
RE DISCCART	454500.0	4615500.0	178.19	178.19
RE DISCCART	454600.0	4615500.0	178.19	178.19
RE DISCCART	454700.0	4615500.0	178.19	178.19
RE DISCCART	454800.0	4615500.0	178.19	178.19
RE DISCCART	454900.0	4615500.0	178.19	178.19
RE DISCCART	455000.0	4615500.0	178.19	178.19
RE DISCCART	455100.0	4615500.0	178.19	178.19
RE DISCCART	455200.0	4615500.0	178.19	178.19
RE DISCCART	455300.0	4615500.0	178.19	178.19
RE DISCCART	455400.0	4615500.0	178.19	178.19
RE DISCCART	455500.0	4615500.0	178.19	178.19
RE DISCCART	455600.0	4615500.0	178.19	178.19
RE DISCCART	455700.0	4615500.0	178.19	178.19
RE DISCCART	455800.0	4615500.0	178.19	178.19
RE DISCCART	455900.0	4615500.0	178.19	178.19
RE DISCCART	456000.0	4615500.0	178.19	178.19
RE DISCCART	456100.0	4615500.0	177.86	177.86
RE DISCCART	456200.0	4615500.0	178.22	178.22
RE DISCCART	456300.0	4615500.0	177.49	177.49
RE DISCCART	456400.0	4615500.0	178.8	178.8
RE DISCCART	456500.0	4615500.0	179.85	183.18
RE DISCCART	456600.0	4615500.0	179.81	183.26
RE DISCCART	452000.0	4615600.0	178.29	178.29
RE DISCCART	452100.0	4615600.0	178.29	178.29
RE DISCCART	452200.0	4615600.0	178.29	178.29
RE DISCCART	452300.0	4615600.0	176.99	176.99
RE DISCCART	452400.0	4615600.0	177.84	177.84
RE DISCCART	452500.0	4615600.0	176.99	176.99
RE DISCCART	452600.0	4615600.0	176.99	176.99
RE DISCCART	452700.0	4615600.0	177.97	177.97
RE DISCCART	452800.0	4615600.0	177.89	177.89
RE DISCCART	452900.0	4615600.0	178.29	178.29
RE DISCCART	453000.0	4615600.0	178.29	178.29
RE DISCCART	453100.0	4615600.0	178.45	178.45

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RE DISCCART	453200.0	4615600.0	178.69	178.69
RE DISCCART	453300.0	4615600.0	178.82	178.82
RE DISCCART	453400.0	4615600.0	178.85	178.85
RE DISCCART	453500.0	4615600.0	178.71	178.71
RE DISCCART	453600.0	4615600.0	178.84	178.84
RE DISCCART	453700.0	4615600.0	178.84	178.84
RE DISCCART	453800.0	4615600.0	178.72	178.72
RE DISCCART	453900.0	4615600.0	178.45	178.45
RE DISCCART	454000.0	4615600.0	176.58	176.58
RE DISCCART	454100.0	4615600.0	177.2	177.2
RE DISCCART	454200.0	4615600.0	178.19	178.19
RE DISCCART	454300.0	4615600.0	178.19	178.19
RE DISCCART	454400.0	4615600.0	178.19	178.19
RE DISCCART	454500.0	4615600.0	178.19	178.19
RE DISCCART	454600.0	4615600.0	178.19	178.19
RE DISCCART	454700.0	4615600.0	178.19	178.19
RE DISCCART	454800.0	4615600.0	178.19	178.19
RE DISCCART	454900.0	4615600.0	178.19	178.19
RE DISCCART	455000.0	4615600.0	178.19	178.19
RE DISCCART	455100.0	4615600.0	178.19	178.19
RE DISCCART	455200.0	4615600.0	178.19	178.19
RE DISCCART	455300.0	4615600.0	178.19	178.19
RE DISCCART	455400.0	4615600.0	178.19	178.19
RE DISCCART	455500.0	4615600.0	178.19	178.19
RE DISCCART	455600.0	4615600.0	178.19	178.19
RE DISCCART	455700.0	4615600.0	178.19	178.19
RE DISCCART	455800.0	4615600.0	178.19	178.19
RE DISCCART	455900.0	4615600.0	178.19	178.19
RE DISCCART	456000.0	4615600.0	178.19	178.19
RE DISCCART	456100.0	4615600.0	177.52	177.52
RE DISCCART	456200.0	4615600.0	178.02	178.02
RE DISCCART	456300.0	4615600.0	178.38	178.38
RE DISCCART	456400.0	4615600.0	178.77	178.77
RE DISCCART	456500.0	4615600.0	179.03	183.54
RE DISCCART	456600.0	4615600.0	178.87	183.7
RE DISCCART	452000.0	4615700.0	178.29	178.29
RE DISCCART	452100.0	4615700.0	178.29	178.29
RE DISCCART	452200.0	4615700.0	178.29	178.29
RE DISCCART	452300.0	4615700.0	177.57	177.57
RE DISCCART	452400.0	4615700.0	177.7	177.7
RE DISCCART	452500.0	4615700.0	176.99	176.99
RE DISCCART	452600.0	4615700.0	176.99	176.99
RE DISCCART	452700.0	4615700.0	176.99	176.99
RE DISCCART	452800.0	4615700.0	177.16	177.16
RE DISCCART	452900.0	4615700.0	176.99	176.99
RE DISCCART	453000.0	4615700.0	178.29	178.29
RE DISCCART	453100.0	4615700.0	178.45	178.45
RE DISCCART	453200.0	4615700.0	178.79	178.79

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RE DISCCART	453300.0	4615700.0	179.01	179.01
RE DISCCART	453400.0	4615700.0	179.16	179.16
RE DISCCART	453500.0	4615700.0	179.17	179.17
RE DISCCART	453600.0	4615700.0	179.14	179.14
RE DISCCART	453700.0	4615700.0	179.07	179.07
RE DISCCART	453800.0	4615700.0	178.8	178.8
RE DISCCART	453900.0	4615700.0	178.39	178.39
RE DISCCART	454000.0	4615700.0	177.6	177.6
RE DISCCART	454100.0	4615700.0	175.19	178.41
RE DISCCART	454200.0	4615700.0	178.19	178.19
RE DISCCART	454300.0	4615700.0	178.19	178.19
RE DISCCART	454400.0	4615700.0	178.19	178.19
RE DISCCART	454500.0	4615700.0	178.19	178.19
RE DISCCART	454600.0	4615700.0	178.19	178.19
RE DISCCART	454700.0	4615700.0	178.19	178.19
RE DISCCART	454800.0	4615700.0	178.19	178.19
RE DISCCART	454900.0	4615700.0	178.19	178.19
RE DISCCART	455000.0	4615700.0	178.19	178.19
RE DISCCART	455100.0	4615700.0	178.19	178.19
RE DISCCART	455200.0	4615700.0	178.19	178.19
RE DISCCART	455300.0	4615700.0	178.19	178.19
RE DISCCART	455400.0	4615700.0	178.19	178.19
RE DISCCART	455500.0	4615700.0	178.19	178.19
RE DISCCART	455600.0	4615700.0	178.19	178.19
RE DISCCART	455700.0	4615700.0	178.19	178.19
RE DISCCART	455800.0	4615700.0	178.19	178.19
RE DISCCART	455900.0	4615700.0	178.19	178.19
RE DISCCART	456000.0	4615700.0	178.19	178.19
RE DISCCART	456100.0	4615700.0	178.5	178.5
RE DISCCART	456200.0	4615700.0	178.59	178.59
RE DISCCART	456300.0	4615700.0	178.59	178.59
RE DISCCART	456400.0	4615700.0	178.48	178.48
RE DISCCART	456500.0	4615700.0	178.32	183.58
RE DISCCART	456600.0	4615700.0	178.79	183.72
RE DISCCART	452000.0	4615800.0	178.29	178.29
RE DISCCART	452100.0	4615800.0	178.29	178.29
RE DISCCART	452200.0	4615800.0	178.29	178.29
RE DISCCART	452300.0	4615800.0	176.99	176.99
RE DISCCART	452400.0	4615800.0	178.29	178.29
RE DISCCART	452500.0	4615800.0	178.29	178.29
RE DISCCART	452600.0	4615800.0	178.29	178.29
RE DISCCART	452700.0	4615800.0	176.99	176.99
RE DISCCART	452800.0	4615800.0	177.73	177.73
RE DISCCART	452900.0	4615800.0	178.29	178.29
RE DISCCART	453000.0	4615800.0	178.29	178.29
RE DISCCART	453100.0	4615800.0	178.45	178.45
RE DISCCART	453200.0	4615800.0	178.78	178.78
RE DISCCART	453300.0	4615800.0	179.01	179.01

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RE DISCCART 453400.0 4615800.0 179. 179.
RE DISCCART 453500.0 4615800.0 179.4 179.4
RE DISCCART 453600.0 4615800.0 179.39 179.39
RE DISCCART 453700.0 4615800.0 179.25 179.25
RE DISCCART 453800.0 4615800.0 178.55 178.55
RE DISCCART 453900.0 4615800.0 178.36 178.36
RE DISCCART 454000.0 4615800.0 176.8 178.29
RE DISCCART 454100.0 4615800.0 175.19 178.09
RE DISCCART 454200.0 4615800.0 178.19 178.19
RE DISCCART 454300.0 4615800.0 178.19 178.19
RE DISCCART 454400.0 4615800.0 178.19 178.19
RE DISCCART 454500.0 4615800.0 178.19 178.19
RE DISCCART 454600.0 4615800.0 178.19 178.19
RE DISCCART 454700.0 4615800.0 178.19 178.19
RE DISCCART 454800.0 4615800.0 178.19 178.19
RE DISCCART 454900.0 4615800.0 178.19 178.19
RE DISCCART 455000.0 4615800.0 178.19 178.19
RE DISCCART 455100.0 4615800.0 178.19 178.19
RE DISCCART 455200.0 4615800.0 178.19 178.19
RE DISCCART 455300.0 4615800.0 178.19 178.19
RE DISCCART 455400.0 4615800.0 178.19 178.19
RE DISCCART 455500.0 4615800.0 178.19 178.19
RE DISCCART 455600.0 4615800.0 178.19 178.19
RE DISCCART 455700.0 4615800.0 178.19 178.19
RE DISCCART 455800.0 4615800.0 178.19 178.19
RE DISCCART 455900.0 4615800.0 178.19 178.19
RE DISCCART 456000.0 4615800.0 178.19 178.19
RE DISCCART 456100.0 4615800.0 178.01 178.01
RE DISCCART 456200.0 4615800.0 178.28 178.28
RE DISCCART 456300.0 4615800.0 178.36 178.36
RE DISCCART 456400.0 4615800.0 178.53 178.53
RE DISCCART 456500.0 4615800.0 178.37 183.37
RE DISCCART 456600.0 4615800.0 179.34 183.68
RE DISCCART 452000.0 4615900.0 178.29 178.29
RE DISCCART 452100.0 4615900.0 178.29 178.29
RE DISCCART 452200.0 4615900.0 178.29 178.29
RE DISCCART 452300.0 4615900.0 178.29 178.29
RE DISCCART 452400.0 4615900.0 178.29 178.29
RE DISCCART 452500.0 4615900.0 178.29 178.29
RE DISCCART 452600.0 4615900.0 177.89 177.89
RE DISCCART 452700.0 4615900.0 176.99 176.99
RE DISCCART 452800.0 4615900.0 178.24 178.24
RE DISCCART 452900.0 4615900.0 178.29 178.29
RE DISCCART 453000.0 4615900.0 178.29 178.29
RE DISCCART 453100.0 4615900.0 178.45 178.45
RE DISCCART 453200.0 4615900.0 178.78 178.78
RE DISCCART 453300.0 4615900.0 179.08 179.08
RE DISCCART 453400.0 4615900.0 179.03 179.03

Phosphorus_2013_OTHER.DTA

RE DISCCART	453500.0	4615900.0	179.3	179.3
RE DISCCART	453600.0	4615900.0	179.59	179.59
RE DISCCART	453700.0	4615900.0	177.94	177.94
RE DISCCART	453800.0	4615900.0	177.79	177.79
RE DISCCART	453900.0	4615900.0	177.81	177.81
RE DISCCART	454000.0	4615900.0	175.38	175.38
RE DISCCART	454100.0	4615900.0	175.19	178.66
RE DISCCART	454200.0	4615900.0	178.22	178.22
RE DISCCART	454300.0	4615900.0	178.19	178.19
RE DISCCART	454400.0	4615900.0	178.19	178.19
RE DISCCART	454500.0	4615900.0	178.19	178.19
RE DISCCART	454600.0	4615900.0	178.19	178.19
RE DISCCART	454700.0	4615900.0	178.19	178.19
RE DISCCART	454800.0	4615900.0	178.19	178.19
RE DISCCART	454900.0	4615900.0	178.19	178.19
RE DISCCART	455000.0	4615900.0	178.19	178.19
RE DISCCART	455100.0	4615900.0	178.19	178.19
RE DISCCART	455200.0	4615900.0	178.19	178.19
RE DISCCART	455300.0	4615900.0	178.19	178.19
RE DISCCART	455400.0	4615900.0	178.19	178.19
RE DISCCART	455500.0	4615900.0	178.19	178.19
RE DISCCART	455600.0	4615900.0	178.19	178.19
RE DISCCART	455700.0	4615900.0	178.19	178.19
RE DISCCART	455800.0	4615900.0	178.19	178.19
RE DISCCART	455900.0	4615900.0	178.19	178.19
RE DISCCART	456000.0	4615900.0	178.19	178.19
RE DISCCART	456100.0	4615900.0	178.02	178.02
RE DISCCART	456200.0	4615900.0	178.19	178.19
RE DISCCART	456300.0	4615900.0	178.28	178.28
RE DISCCART	456400.0	4615900.0	178.33	178.33
RE DISCCART	456500.0	4615900.0	179.93	179.93
RE DISCCART	456600.0	4615900.0	179.18	183.16
RE DISCCART	452000.0	4616000.0	178.44	178.44
RE DISCCART	452100.0	4616000.0	178.29	178.29
RE DISCCART	452200.0	4616000.0	178.29	178.29
RE DISCCART	452300.0	4616000.0	178.29	178.29
RE DISCCART	452400.0	4616000.0	178.29	178.29
RE DISCCART	452500.0	4616000.0	178.29	178.29
RE DISCCART	452600.0	4616000.0	176.99	176.99
RE DISCCART	452700.0	4616000.0	176.99	176.99
RE DISCCART	452800.0	4616000.0	177.95	177.95
RE DISCCART	452900.0	4616000.0	177.18	177.18
RE DISCCART	453000.0	4616000.0	178.29	178.29
RE DISCCART	453100.0	4616000.0	178.45	178.45
RE DISCCART	453200.0	4616000.0	178.78	178.78
RE DISCCART	453300.0	4616000.0	179.1	179.1
RE DISCCART	453400.0	4616000.0	179.4	179.4
RE DISCCART	453500.0	4616000.0	179.68	179.68

Phosphorus_2013_OTHER.DTA

RE DISCCART	453600.0	4616000.0	179.95	179.95
RE DISCCART	453700.0	4616000.0	178.75	178.75
RE DISCCART	453800.0	4616000.0	178.76	178.76
RE DISCCART	453900.0	4616000.0	178.78	178.78
RE DISCCART	454000.0	4616000.0	175.19	175.19
RE DISCCART	454100.0	4616000.0	177.71	177.71
RE DISCCART	454200.0	4616000.0	178.25	178.25
RE DISCCART	454300.0	4616000.0	178.19	178.19
RE DISCCART	454400.0	4616000.0	178.19	178.19
RE DISCCART	454500.0	4616000.0	178.19	178.19
RE DISCCART	454600.0	4616000.0	178.19	178.19
RE DISCCART	454700.0	4616000.0	178.19	178.19
RE DISCCART	454800.0	4616000.0	178.19	178.19
RE DISCCART	454900.0	4616000.0	178.19	178.19
RE DISCCART	455000.0	4616000.0	178.19	178.19
RE DISCCART	455100.0	4616000.0	178.19	178.19
RE DISCCART	455200.0	4616000.0	178.19	178.19
RE DISCCART	455300.0	4616000.0	178.19	178.19
RE DISCCART	455400.0	4616000.0	178.19	178.19
RE DISCCART	455500.0	4616000.0	178.19	178.19
RE DISCCART	455600.0	4616000.0	178.19	178.19
RE DISCCART	455700.0	4616000.0	178.19	178.19
RE DISCCART	455800.0	4616000.0	178.19	178.19
RE DISCCART	455900.0	4616000.0	178.19	178.19
RE DISCCART	456000.0	4616000.0	178.19	178.19
RE DISCCART	456100.0	4616000.0	178.04	178.04
RE DISCCART	456200.0	4616000.0	178.2	178.2
RE DISCCART	456300.0	4616000.0	178.58	178.58
RE DISCCART	456400.0	4616000.0	178.22	178.22
RE DISCCART	456500.0	4616000.0	179.4	179.4
RE DISCCART	456600.0	4616000.0	179.78	182.42
RE DISCCART	452000.0	4616100.0	179.38	179.38
RE DISCCART	452100.0	4616100.0	178.29	178.29
RE DISCCART	452200.0	4616100.0	178.29	178.29
RE DISCCART	452300.0	4616100.0	178.29	178.29
RE DISCCART	452400.0	4616100.0	177.72	177.72
RE DISCCART	452500.0	4616100.0	177.71	177.71
RE DISCCART	452600.0	4616100.0	176.99	176.99
RE DISCCART	452700.0	4616100.0	177.57	177.57
RE DISCCART	452800.0	4616100.0	177.92	177.92
RE DISCCART	452900.0	4616100.0	178.1	178.1
RE DISCCART	453000.0	4616100.0	178.29	178.29
RE DISCCART	453100.0	4616100.0	178.35	178.35
RE DISCCART	453200.0	4616100.0	178.39	178.39
RE DISCCART	453300.0	4616100.0	178.46	178.46
RE DISCCART	453400.0	4616100.0	178.57	178.57
RE DISCCART	453500.0	4616100.0	179.71	179.71
RE DISCCART	453600.0	4616100.0	180.22	180.22

Phosphorus_2013_OTHER.DTA

RE DISCCART	453700.0	4616100.0	180.5	180.5
RE DISCCART	453800.0	4616100.0	180.33	180.33
RE DISCCART	453900.0	4616100.0	180.15	180.15
RE DISCCART	454000.0	4616100.0	175.19	175.19
RE DISCCART	454100.0	4616100.0	178.19	178.19
RE DISCCART	454200.0	4616100.0	178.19	178.19
RE DISCCART	454300.0	4616100.0	178.29	178.29
RE DISCCART	454400.0	4616100.0	178.19	178.19
RE DISCCART	454500.0	4616100.0	178.19	178.19
RE DISCCART	454600.0	4616100.0	178.19	178.19
RE DISCCART	454700.0	4616100.0	178.19	178.19
RE DISCCART	454800.0	4616100.0	178.19	178.19
RE DISCCART	454900.0	4616100.0	178.19	178.19
RE DISCCART	455000.0	4616100.0	178.19	178.19
RE DISCCART	455100.0	4616100.0	178.19	178.19
RE DISCCART	455200.0	4616100.0	178.19	178.19
RE DISCCART	455300.0	4616100.0	178.19	178.19
RE DISCCART	455400.0	4616100.0	178.38	178.38
RE DISCCART	455500.0	4616100.0	178.19	178.19
RE DISCCART	455600.0	4616100.0	178.19	178.19
RE DISCCART	455700.0	4616100.0	178.19	178.19
RE DISCCART	455800.0	4616100.0	178.19	178.19
RE DISCCART	455900.0	4616100.0	178.19	178.19
RE DISCCART	456000.0	4616100.0	178.19	178.19
RE DISCCART	456100.0	4616100.0	178.09	178.09
RE DISCCART	456200.0	4616100.0	178.27	178.27
RE DISCCART	456300.0	4616100.0	178.45	178.45
RE DISCCART	456400.0	4616100.0	178.37	178.37
RE DISCCART	456500.0	4616100.0	178.99	178.99
RE DISCCART	456600.0	4616100.0	180.69	180.69
RE DISCCART	452000.0	4616200.0	179.62	179.62
RE DISCCART	452100.0	4616200.0	178.64	178.64
RE DISCCART	452200.0	4616200.0	178.38	178.38
RE DISCCART	452300.0	4616200.0	178.29	178.29
RE DISCCART	452400.0	4616200.0	178.29	178.29
RE DISCCART	452500.0	4616200.0	178.31	178.31
RE DISCCART	452600.0	4616200.0	178.37	178.37
RE DISCCART	452700.0	4616200.0	178.31	178.31
RE DISCCART	452800.0	4616200.0	178.29	178.29
RE DISCCART	452900.0	4616200.0	178.29	178.29
RE DISCCART	453000.0	4616200.0	178.29	178.29
RE DISCCART	453100.0	4616200.0	178.29	178.29
RE DISCCART	453200.0	4616200.0	178.29	178.29
RE DISCCART	453300.0	4616200.0	178.29	178.29
RE DISCCART	453400.0	4616200.0	178.29	178.29
RE DISCCART	453500.0	4616200.0	179.7	179.7
RE DISCCART	453600.0	4616200.0	180.18	180.18
RE DISCCART	453700.0	4616200.0	180.09	180.09

Phosphorus_2013_OTHER.DTA

RE DISCCART 453800.0 4616200.0 178.5 178.5
RE DISCCART 453900.0 4616200.0 177.6 177.6
RE DISCCART 454000.0 4616200.0 176.12 177.72
RE DISCCART 454100.0 4616200.0 178.19 178.19
RE DISCCART 454200.0 4616200.0 178.19 178.19
RE DISCCART 454300.0 4616200.0 178.2 178.2
RE DISCCART 454400.0 4616200.0 178.3 178.3
RE DISCCART 454500.0 4616200.0 178.19 178.19
RE DISCCART 454600.0 4616200.0 178.19 178.19
RE DISCCART 454700.0 4616200.0 178.19 178.19
RE DISCCART 454800.0 4616200.0 178.19 178.19
RE DISCCART 454900.0 4616200.0 178.19 178.19
RE DISCCART 455000.0 4616200.0 178.19 178.19
RE DISCCART 455100.0 4616200.0 178.19 178.19
RE DISCCART 455200.0 4616200.0 178.19 178.19
RE DISCCART 455300.0 4616200.0 178.19 178.19
RE DISCCART 455400.0 4616200.0 178.33 178.33
RE DISCCART 455500.0 4616200.0 178.31 178.31
RE DISCCART 455600.0 4616200.0 178.19 178.19
RE DISCCART 455700.0 4616200.0 178.19 178.19
RE DISCCART 455800.0 4616200.0 178.19 178.19
RE DISCCART 455900.0 4616200.0 178.19 178.19
RE DISCCART 456000.0 4616200.0 178.19 178.19
RE DISCCART 456100.0 4616200.0 178.11 178.11
RE DISCCART 456200.0 4616200.0 178.29 178.29
RE DISCCART 456300.0 4616200.0 178.48 178.48
RE DISCCART 456400.0 4616200.0 178.18 178.18
RE DISCCART 456500.0 4616200.0 178.91 178.91
RE DISCCART 456600.0 4616200.0 180.62 180.62
RE DISCCART 452000.0 4616300.0 179.43 179.43
RE DISCCART 452100.0 4616300.0 178.91 178.91
RE DISCCART 452200.0 4616300.0 178.5 178.5
RE DISCCART 452300.0 4616300.0 178.29 178.29
RE DISCCART 452400.0 4616300.0 178.48 178.48
RE DISCCART 452500.0 4616300.0 178.59 178.59
RE DISCCART 452600.0 4616300.0 178.69 178.69
RE DISCCART 452700.0 4616300.0 178.54 178.54
RE DISCCART 452800.0 4616300.0 178.49 178.49
RE DISCCART 452900.0 4616300.0 178.46 178.46
RE DISCCART 453000.0 4616300.0 178.29 178.29
RE DISCCART 453100.0 4616300.0 178.29 178.29
RE DISCCART 453200.0 4616300.0 178.29 178.29
RE DISCCART 453300.0 4616300.0 178.31 178.31
RE DISCCART 453400.0 4616300.0 178.32 178.32
RE DISCCART 453500.0 4616300.0 179.75 179.75
RE DISCCART 453600.0 4616300.0 178.46 178.46
RE DISCCART 453700.0 4616300.0 178.42 178.42
RE DISCCART 453800.0 4616300.0 178.36 178.36

Phosphorus_2013_OTHER.DTA

RE DISCCART	453900.0	4616300.0	178.37	178.37
RE DISCCART	454000.0	4616300.0	176.29	178.49
RE DISCCART	454100.0	4616300.0	178.19	178.19
RE DISCCART	454200.0	4616300.0	178.19	178.19
RE DISCCART	454300.0	4616300.0	178.19	178.19
RE DISCCART	454400.0	4616300.0	178.41	178.41
RE DISCCART	454500.0	4616300.0	178.22	178.22
RE DISCCART	454600.0	4616300.0	178.19	178.19
RE DISCCART	454700.0	4616300.0	178.19	178.19
RE DISCCART	454800.0	4616300.0	178.19	178.19
RE DISCCART	454900.0	4616300.0	178.19	178.19
RE DISCCART	455000.0	4616300.0	178.19	178.19
RE DISCCART	455100.0	4616300.0	178.19	178.19
RE DISCCART	455200.0	4616300.0	178.19	178.19
RE DISCCART	455300.0	4616300.0	178.19	178.19
RE DISCCART	455400.0	4616300.0	178.39	178.39
RE DISCCART	455500.0	4616300.0	178.45	178.45
RE DISCCART	455600.0	4616300.0	178.28	178.28
RE DISCCART	455700.0	4616300.0	178.19	178.19
RE DISCCART	455800.0	4616300.0	178.19	178.19
RE DISCCART	455900.0	4616300.0	178.19	178.19
RE DISCCART	456000.0	4616300.0	178.19	178.19
RE DISCCART	456100.0	4616300.0	178.27	178.27
RE DISCCART	456200.0	4616300.0	178.26	178.26
RE DISCCART	456300.0	4616300.0	178.36	178.36
RE DISCCART	456400.0	4616300.0	178.16	178.16
RE DISCCART	456500.0	4616300.0	179.46	179.46
RE DISCCART	456600.0	4616300.0	178.6	183.08
RE DISCCART	452000.0	4616400.0	179.2	179.2
RE DISCCART	452100.0	4616400.0	178.87	178.87
RE DISCCART	452200.0	4616400.0	178.45	178.45
RE DISCCART	452300.0	4616400.0	178.29	178.29
RE DISCCART	452400.0	4616400.0	178.59	178.59
RE DISCCART	452500.0	4616400.0	178.8	178.8
RE DISCCART	452600.0	4616400.0	178.84	178.84
RE DISCCART	452700.0	4616400.0	178.86	178.86
RE DISCCART	452800.0	4616400.0	178.91	178.91
RE DISCCART	452900.0	4616400.0	178.64	178.64
RE DISCCART	453000.0	4616400.0	178.29	178.29
RE DISCCART	453100.0	4616400.0	178.29	178.29
RE DISCCART	453200.0	4616400.0	178.5	178.5
RE DISCCART	453300.0	4616400.0	178.83	178.83
RE DISCCART	453400.0	4616400.0	179.19	179.19
RE DISCCART	453500.0	4616400.0	179.76	179.76
RE DISCCART	453600.0	4616400.0	179.88	179.88
RE DISCCART	453700.0	4616400.0	179.48	179.48
RE DISCCART	453800.0	4616400.0	179.42	179.42
RE DISCCART	453900.0	4616400.0	179.17	179.17

Phosphorus_2013_OTHER.DTA

RE DISCCART	454000.0	4616400.0	175.19	175.19
RE DISCCART	454100.0	4616400.0	178.19	178.19
RE DISCCART	454200.0	4616400.0	178.19	178.19
RE DISCCART	454300.0	4616400.0	178.19	178.19
RE DISCCART	454400.0	4616400.0	178.46	178.46
RE DISCCART	454500.0	4616400.0	178.37	178.37
RE DISCCART	454600.0	4616400.0	178.19	178.19
RE DISCCART	454700.0	4616400.0	178.19	178.19
RE DISCCART	454800.0	4616400.0	178.19	178.19
RE DISCCART	454900.0	4616400.0	178.19	178.19
RE DISCCART	455000.0	4616400.0	178.19	178.19
RE DISCCART	455100.0	4616400.0	178.19	178.19
RE DISCCART	455200.0	4616400.0	178.19	178.19
RE DISCCART	455300.0	4616400.0	178.19	178.19
RE DISCCART	455400.0	4616400.0	178.39	178.39
RE DISCCART	455500.0	4616400.0	178.61	178.61
RE DISCCART	455600.0	4616400.0	178.55	178.55
RE DISCCART	455700.0	4616400.0	178.28	178.28
RE DISCCART	455800.0	4616400.0	178.19	178.19
RE DISCCART	455900.0	4616400.0	178.19	178.19
RE DISCCART	456000.0	4616400.0	178.19	178.19
RE DISCCART	456100.0	4616400.0	178.5	178.5
RE DISCCART	456200.0	4616400.0	178.33	178.33
RE DISCCART	456300.0	4616400.0	178.41	178.41
RE DISCCART	456400.0	4616400.0	178.57	178.57
RE DISCCART	456500.0	4616400.0	179.95	179.95
RE DISCCART	456600.0	4616400.0	179.89	183.68
RE DISCCART	452000.0	4616500.0	178.59	178.59
RE DISCCART	452100.0	4616500.0	178.78	178.78
RE DISCCART	452200.0	4616500.0	178.36	178.36
RE DISCCART	452300.0	4616500.0	178.35	178.35
RE DISCCART	452400.0	4616500.0	178.64	178.64
RE DISCCART	452500.0	4616500.0	179.01	179.01
RE DISCCART	452600.0	4616500.0	179.02	179.02
RE DISCCART	452700.0	4616500.0	179.19	179.19
RE DISCCART	452800.0	4616500.0	179.33	179.33
RE DISCCART	452900.0	4616500.0	179.1	179.1
RE DISCCART	453000.0	4616500.0	178.47	178.47
RE DISCCART	453100.0	4616500.0	178.31	178.31
RE DISCCART	453200.0	4616500.0	178.49	178.49
RE DISCCART	453300.0	4616500.0	178.89	178.89
RE DISCCART	453400.0	4616500.0	179.31	179.31
RE DISCCART	453500.0	4616500.0	179.76	179.76
RE DISCCART	453600.0	4616500.0	180.08	180.08
RE DISCCART	453700.0	4616500.0	180.15	180.15
RE DISCCART	453800.0	4616500.0	180.13	180.13
RE DISCCART	453900.0	4616500.0	180.25	180.25
RE DISCCART	454000.0	4616500.0	178.75	179.84

Phosphorus_2013_OTHER.DTA

RE DISCCART 454100.0 4616500.0 176. 176.
RE DISCCART 454200.0 4616500.0 178.19 178.19
RE DISCCART 454300.0 4616500.0 178.19 178.19
RE DISCCART 454400.0 4616500.0 178.45 178.45
RE DISCCART 454500.0 4616500.0 178.5 178.5
RE DISCCART 454600.0 4616500.0 178.19 178.19
RE DISCCART 454700.0 4616500.0 178.19 178.19
RE DISCCART 454800.0 4616500.0 178.19 178.19
RE DISCCART 454900.0 4616500.0 178.19 178.19
RE DISCCART 455000.0 4616500.0 178.19 178.19
RE DISCCART 455100.0 4616500.0 178.19 178.19
RE DISCCART 455200.0 4616500.0 178.36 178.36
RE DISCCART 455300.0 4616500.0 178.29 178.29
RE DISCCART 455400.0 4616500.0 178.52 178.52
RE DISCCART 455500.0 4616500.0 178.78 178.78
RE DISCCART 455600.0 4616500.0 178.84 178.84
RE DISCCART 455700.0 4616500.0 178.52 178.52
RE DISCCART 455800.0 4616500.0 178.22 178.22
RE DISCCART 455900.0 4616500.0 178.23 178.23
RE DISCCART 456000.0 4616500.0 178.19 178.19
RE DISCCART 456100.0 4616500.0 178.33 178.33
RE DISCCART 456200.0 4616500.0 178.21 178.21
RE DISCCART 456300.0 4616500.0 178.06 178.06
RE DISCCART 456400.0 4616500.0 178.04 178.04
RE DISCCART 456500.0 4616500.0 180.46 183.14
RE DISCCART 456600.0 4616500.0 179.28 183.56
RE DISCCART 452000.0 4616600.0 178.2 178.2
RE DISCCART 452100.0 4616600.0 178.69 178.69
RE DISCCART 452200.0 4616600.0 178.31 178.31
RE DISCCART 452300.0 4616600.0 178.39 178.39
RE DISCCART 452400.0 4616600.0 178.7 178.7
RE DISCCART 452500.0 4616600.0 178.95 178.95
RE DISCCART 452600.0 4616600.0 179.15 179.15
RE DISCCART 452700.0 4616600.0 179.37 179.37
RE DISCCART 452800.0 4616600.0 179.58 179.58
RE DISCCART 452900.0 4616600.0 179.64 179.64
RE DISCCART 453000.0 4616600.0 178.79 178.79
RE DISCCART 453100.0 4616600.0 178.29 178.29
RE DISCCART 453200.0 4616600.0 178.46 178.46
RE DISCCART 453300.0 4616600.0 178.79 178.79
RE DISCCART 453400.0 4616600.0 179.29 179.29
RE DISCCART 453500.0 4616600.0 179.75 179.75
RE DISCCART 453600.0 4616600.0 180.04 180.04
RE DISCCART 453700.0 4616600.0 180.32 180.32
RE DISCCART 453800.0 4616600.0 180.02 180.02
RE DISCCART 453900.0 4616600.0 178.48 178.48
RE DISCCART 454000.0 4616600.0 178.27 178.27
RE DISCCART 454100.0 4616600.0 175.49 175.49

Phosphorus_2013_OTHER.DTA

RE DISCCART 454200.0 4616600.0 175.19 175.19
RE DISCCART 454300.0 4616600.0 178.06 178.06
RE DISCCART 454400.0 4616600.0 178.2 178.2
RE DISCCART 454500.0 4616600.0 178.55 178.55
RE DISCCART 454600.0 4616600.0 178.37 178.37
RE DISCCART 454700.0 4616600.0 178.19 178.19
RE DISCCART 454800.0 4616600.0 178.19 178.19
RE DISCCART 454900.0 4616600.0 178.21 178.21
RE DISCCART 455000.0 4616600.0 178.19 178.19
RE DISCCART 455100.0 4616600.0 178.19 178.19
RE DISCCART 455200.0 4616600.0 178.29 178.29
RE DISCCART 455300.0 4616600.0 178.61 178.61
RE DISCCART 455400.0 4616600.0 178.65 178.65
RE DISCCART 455500.0 4616600.0 178.82 178.82
RE DISCCART 455600.0 4616600.0 179. 179.
RE DISCCART 455700.0 4616600.0 178.7 178.7
RE DISCCART 455800.0 4616600.0 178.49 178.49
RE DISCCART 455900.0 4616600.0 178.44 178.44
RE DISCCART 456000.0 4616600.0 178.19 178.19
RE DISCCART 456100.0 4616600.0 178.32 178.32
RE DISCCART 456200.0 4616600.0 178.43 178.43
RE DISCCART 456300.0 4616600.0 178.27 178.27
RE DISCCART 456400.0 4616600.0 178.04 178.04
RE DISCCART 456500.0 4616600.0 180.61 184.67
RE DISCCART 456600.0 4616600.0 178.25 184.89
RE DISCCART 452000.0 4616700.0 178.97 178.97
RE DISCCART 452100.0 4616700.0 178.7 178.7
RE DISCCART 452200.0 4616700.0 178.29 178.29
RE DISCCART 452300.0 4616700.0 178.47 178.47
RE DISCCART 452400.0 4616700.0 178.81 178.81
RE DISCCART 452500.0 4616700.0 179.04 179.04
RE DISCCART 452600.0 4616700.0 179.27 179.27
RE DISCCART 452700.0 4616700.0 179.49 179.49
RE DISCCART 452800.0 4616700.0 179.69 179.69
RE DISCCART 452900.0 4616700.0 179.43 179.43
RE DISCCART 453000.0 4616700.0 178.76 178.76
RE DISCCART 453100.0 4616700.0 178.29 178.29
RE DISCCART 453200.0 4616700.0 178.39 178.39
RE DISCCART 453300.0 4616700.0 178.62 178.62
RE DISCCART 453400.0 4616700.0 179.12 179.12
RE DISCCART 453500.0 4616700.0 179.64 179.64
RE DISCCART 453600.0 4616700.0 179.88 179.88
RE DISCCART 453700.0 4616700.0 180.3 180.3
RE DISCCART 453800.0 4616700.0 180.02 180.02
RE DISCCART 453900.0 4616700.0 178.2 178.2
RE DISCCART 454000.0 4616700.0 178.19 178.19
RE DISCCART 454100.0 4616700.0 178.26 178.26
RE DISCCART 454200.0 4616700.0 178.71 178.71

Phosphorus_2013_OTHER.DTA

RE DISCCART	454300.0	4616700.0	175.55	175.55
RE DISCCART	454400.0	4616700.0	175.19	175.19
RE DISCCART	454500.0	4616700.0	178.32	178.32
RE DISCCART	454600.0	4616700.0	178.52	178.52
RE DISCCART	454700.0	4616700.0	178.31	178.31
RE DISCCART	454800.0	4616700.0	178.19	178.19
RE DISCCART	454900.0	4616700.0	178.37	178.37
RE DISCCART	455000.0	4616700.0	178.21	178.21
RE DISCCART	455100.0	4616700.0	178.19	178.19
RE DISCCART	455200.0	4616700.0	178.2	178.2
RE DISCCART	455300.0	4616700.0	178.65	178.65
RE DISCCART	455400.0	4616700.0	178.8	178.8
RE DISCCART	455500.0	4616700.0	179.04	179.04
RE DISCCART	455600.0	4616700.0	179.15	179.15
RE DISCCART	455700.0	4616700.0	178.93	178.93
RE DISCCART	455800.0	4616700.0	178.72	178.72
RE DISCCART	455900.0	4616700.0	178.29	178.29
RE DISCCART	456000.0	4616700.0	178.19	178.19
RE DISCCART	456100.0	4616700.0	178.18	178.18
RE DISCCART	456200.0	4616700.0	178.38	178.38
RE DISCCART	456300.0	4616700.0	178.24	178.24
RE DISCCART	456400.0	4616700.0	177.87	177.87
RE DISCCART	456500.0	4616700.0	178.37	178.37
RE DISCCART	456600.0	4616700.0	178.65	178.65
RE DISCCART	452000.0	4616800.0	179.14	179.14
RE DISCCART	452100.0	4616800.0	178.59	178.59
RE DISCCART	452200.0	4616800.0	178.29	178.29
RE DISCCART	452300.0	4616800.0	178.56	178.56
RE DISCCART	452400.0	4616800.0	178.89	178.89
RE DISCCART	452500.0	4616800.0	179.16	179.16
RE DISCCART	452600.0	4616800.0	179.41	179.41
RE DISCCART	452700.0	4616800.0	179.68	179.68
RE DISCCART	452800.0	4616800.0	179.63	179.63
RE DISCCART	452900.0	4616800.0	179.31	179.31
RE DISCCART	453000.0	4616800.0	178.79	178.79
RE DISCCART	453100.0	4616800.0	178.58	178.58
RE DISCCART	453200.0	4616800.0	178.29	178.29
RE DISCCART	453300.0	4616800.0	178.45	178.45
RE DISCCART	453400.0	4616800.0	178.89	178.89
RE DISCCART	453500.0	4616800.0	179.42	179.42
RE DISCCART	453600.0	4616800.0	179.82	179.82
RE DISCCART	453700.0	4616800.0	180.06	180.06
RE DISCCART	453800.0	4616800.0	178.96	178.96
RE DISCCART	453900.0	4616800.0	178.28	178.28
RE DISCCART	454000.0	4616800.0	178.17	178.17
RE DISCCART	454100.0	4616800.0	178.18	178.18
RE DISCCART	454200.0	4616800.0	178.22	178.22
RE DISCCART	454300.0	4616800.0	178.18	178.18

Phosphorus_2013_OTHER.DTA

RE DISCCART 454400.0 4616800.0 179.12 179.12
RE DISCCART 454500.0 4616800.0 175.19 178.46
RE DISCCART 454600.0 4616800.0 179.02 179.02
RE DISCCART 454700.0 4616800.0 179.08 179.08
RE DISCCART 454800.0 4616800.0 178.19 178.19
RE DISCCART 454900.0 4616800.0 178.35 178.35
RE DISCCART 455000.0 4616800.0 178.41 178.41
RE DISCCART 455100.0 4616800.0 178.19 178.19
RE DISCCART 455200.0 4616800.0 178.2 178.2
RE DISCCART 455300.0 4616800.0 178.54 178.54
RE DISCCART 455400.0 4616800.0 178.88 178.88
RE DISCCART 455500.0 4616800.0 179.11 179.11
RE DISCCART 455600.0 4616800.0 179.28 179.28
RE DISCCART 455700.0 4616800.0 179.11 179.11
RE DISCCART 455800.0 4616800.0 178.95 178.95
RE DISCCART 455900.0 4616800.0 178.45 178.45
RE DISCCART 456000.0 4616800.0 178.19 178.19
RE DISCCART 456100.0 4616800.0 178.26 178.26
RE DISCCART 456200.0 4616800.0 178.6 178.6
RE DISCCART 456300.0 4616800.0 178.44 178.44
RE DISCCART 456400.0 4616800.0 178.12 178.12
RE DISCCART 456500.0 4616800.0 178.7 178.7
RE DISCCART 456600.0 4616800.0 178.86 178.86
RE DISCCART 452000.0 4616900.0 178.85 178.85
RE DISCCART 452100.0 4616900.0 178.4 178.4
RE DISCCART 452200.0 4616900.0 178.32 178.32
RE DISCCART 452300.0 4616900.0 178.7 178.7
RE DISCCART 452400.0 4616900.0 179. 179.
RE DISCCART 452500.0 4616900.0 179.31 179.31
RE DISCCART 452600.0 4616900.0 179.58 179.58
RE DISCCART 452700.0 4616900.0 179.69 179.69
RE DISCCART 452800.0 4616900.0 179.48 179.48
RE DISCCART 452900.0 4616900.0 179.18 179.18
RE DISCCART 453000.0 4616900.0 179.08 179.08
RE DISCCART 453100.0 4616900.0 178.67 178.67
RE DISCCART 453200.0 4616900.0 178.34 178.34
RE DISCCART 453300.0 4616900.0 178.31 178.31
RE DISCCART 453400.0 4616900.0 178.67 178.67
RE DISCCART 453500.0 4616900.0 178.78 178.78
RE DISCCART 453600.0 4616900.0 179.27 179.27
RE DISCCART 453700.0 4616900.0 178.24 178.24
RE DISCCART 453800.0 4616900.0 178.19 178.19
RE DISCCART 453900.0 4616900.0 178.19 178.19
RE DISCCART 454000.0 4616900.0 178.2 178.2
RE DISCCART 454100.0 4616900.0 178.19 178.19
RE DISCCART 454200.0 4616900.0 178.19 178.19
RE DISCCART 454300.0 4616900.0 178.2 178.2
RE DISCCART 454400.0 4616900.0 178.35 178.35

Phosphorus_2013_OTHER.DTA

RE DISCCART	454500.0	4616900.0	180.77	182.17
RE DISCCART	454600.0	4616900.0	176.26	182.22
RE DISCCART	454700.0	4616900.0	179.53	179.53
RE DISCCART	454800.0	4616900.0	178.19	178.19
RE DISCCART	454900.0	4616900.0	178.19	178.19
RE DISCCART	455000.0	4616900.0	178.33	178.33
RE DISCCART	455100.0	4616900.0	178.22	178.22
RE DISCCART	455200.0	4616900.0	178.2	178.2
RE DISCCART	455300.0	4616900.0	178.61	178.61
RE DISCCART	455400.0	4616900.0	178.77	178.77
RE DISCCART	455500.0	4616900.0	179.2	179.2
RE DISCCART	455600.0	4616900.0	179.39	179.39
RE DISCCART	455700.0	4616900.0	179.21	179.21
RE DISCCART	455800.0	4616900.0	179.06	179.06
RE DISCCART	455900.0	4616900.0	178.52	178.52
RE DISCCART	456000.0	4616900.0	178.32	178.32
RE DISCCART	456100.0	4616900.0	178.86	178.86
RE DISCCART	456200.0	4616900.0	179.3	179.3
RE DISCCART	456300.0	4616900.0	179.34	179.34
RE DISCCART	456400.0	4616900.0	179.1	179.1
RE DISCCART	456500.0	4616900.0	179.26	179.26
RE DISCCART	456600.0	4616900.0	178.74	178.74
RE DISCCART	452000.0	4617000.0	178.3	178.3
RE DISCCART	452100.0	4617000.0	178.29	178.29
RE DISCCART	452200.0	4617000.0	178.56	178.56
RE DISCCART	452300.0	4617000.0	178.88	178.88
RE DISCCART	452400.0	4617000.0	179.19	179.19
RE DISCCART	452500.0	4617000.0	179.49	179.49
RE DISCCART	452600.0	4617000.0	179.69	179.69
RE DISCCART	452700.0	4617000.0	179.6	179.6
RE DISCCART	452800.0	4617000.0	179.39	179.39
RE DISCCART	452900.0	4617000.0	179.34	179.34
RE DISCCART	453000.0	4617000.0	179.02	179.02
RE DISCCART	453100.0	4617000.0	178.61	178.61
RE DISCCART	453200.0	4617000.0	178.37	178.37
RE DISCCART	453300.0	4617000.0	178.29	178.29
RE DISCCART	453400.0	4617000.0	178.56	178.56
RE DISCCART	453500.0	4617000.0	178.2	178.2
RE DISCCART	453600.0	4617000.0	178.91	178.91
RE DISCCART	453700.0	4617000.0	179.07	179.07
RE DISCCART	453800.0	4617000.0	178.51	178.51
RE DISCCART	453900.0	4617000.0	178.21	178.21
RE DISCCART	454000.0	4617000.0	178.2	178.2
RE DISCCART	454100.0	4617000.0	178.21	178.21
RE DISCCART	454200.0	4617000.0	178.22	178.22
RE DISCCART	454300.0	4617000.0	178.72	178.72
RE DISCCART	454400.0	4617000.0	179.7	179.7
RE DISCCART	454500.0	4617000.0	178.56	178.56

Phosphorus_2013_OTHER.DTA

RE DISCCART	454600.0	4617000.0	175.19	175.19
RE DISCCART	454700.0	4617000.0	178.58	178.58
RE DISCCART	454800.0	4617000.0	178.19	178.19
RE DISCCART	454900.0	4617000.0	178.19	178.19
RE DISCCART	455000.0	4617000.0	178.22	178.22
RE DISCCART	455100.0	4617000.0	178.41	178.41
RE DISCCART	455200.0	4617000.0	178.69	178.69
RE DISCCART	455300.0	4617000.0	178.7	178.7
RE DISCCART	455400.0	4617000.0	178.8	178.8
RE DISCCART	455500.0	4617000.0	179.11	179.11
RE DISCCART	455600.0	4617000.0	179.41	179.41
RE DISCCART	455700.0	4617000.0	179.34	179.34
RE DISCCART	455800.0	4617000.0	179.09	179.09
RE DISCCART	455900.0	4617000.0	178.72	178.72
RE DISCCART	456000.0	4617000.0	178.32	178.32
RE DISCCART	456100.0	4617000.0	178.64	178.64
RE DISCCART	456200.0	4617000.0	178.74	178.74
RE DISCCART	456300.0	4617000.0	179.47	186.69
RE DISCCART	456400.0	4617000.0	179.52	179.52
RE DISCCART	456500.0	4617000.0	179.55	179.55
RE DISCCART	456600.0	4617000.0	179.13	179.13
RE DISCCART	452000.0	4617100.0	178.87	178.87
RE DISCCART	452100.0	4617100.0	178.6	178.6
RE DISCCART	452200.0	4617100.0	178.95	178.95
RE DISCCART	452300.0	4617100.0	179.13	179.13
RE DISCCART	452400.0	4617100.0	179.38	179.38
RE DISCCART	452500.0	4617100.0	179.65	179.65
RE DISCCART	452600.0	4617100.0	179.68	179.68
RE DISCCART	452700.0	4617100.0	179.49	179.49
RE DISCCART	452800.0	4617100.0	179.39	179.39
RE DISCCART	452900.0	4617100.0	179.22	179.22
RE DISCCART	453000.0	4617100.0	178.81	178.81
RE DISCCART	453100.0	4617100.0	178.58	178.58
RE DISCCART	453200.0	4617100.0	178.54	178.54
RE DISCCART	453300.0	4617100.0	178.29	178.29
RE DISCCART	453400.0	4617100.0	178.45	178.45
RE DISCCART	453500.0	4617100.0	178.21	178.21
RE DISCCART	453600.0	4617100.0	178.49	178.49
RE DISCCART	453700.0	4617100.0	178.87	178.87
RE DISCCART	453800.0	4617100.0	178.7	178.7
RE DISCCART	453900.0	4617100.0	178.49	178.49
RE DISCCART	454000.0	4617100.0	178.19	178.19
RE DISCCART	454100.0	4617100.0	178.16	178.16
RE DISCCART	454200.0	4617100.0	178.42	178.42
RE DISCCART	454300.0	4617100.0	178.95	178.95
RE DISCCART	454400.0	4617100.0	179.13	179.13
RE DISCCART	454500.0	4617100.0	178.28	178.28
RE DISCCART	454600.0	4617100.0	175.19	175.19

Phosphorus_2013_OTHER.DTA

RE DISCCART 454700.0 4617100.0 178.19 178.19
RE DISCCART 454800.0 4617100.0 178.2 178.2
RE DISCCART 454900.0 4617100.0 178.19 178.19
RE DISCCART 455000.0 4617100.0 178.19 178.19
RE DISCCART 455100.0 4617100.0 178.37 178.37
RE DISCCART 455200.0 4617100.0 178.76 178.76
RE DISCCART 455300.0 4617100.0 179.04 179.04
RE DISCCART 455400.0 4617100.0 179.16 179.16
RE DISCCART 455500.0 4617100.0 179.29 179.29
RE DISCCART 455600.0 4617100.0 179.39 179.39
RE DISCCART 455700.0 4617100.0 179.4 179.4
RE DISCCART 455800.0 4617100.0 179.11 179.11
RE DISCCART 455900.0 4617100.0 178.95 178.95
RE DISCCART 456000.0 4617100.0 178.38 178.38
RE DISCCART 456100.0 4617100.0 178.58 178.58
RE DISCCART 456200.0 4617100.0 178.66 187.12
RE DISCCART 456300.0 4617100.0 181.14 187.12
RE DISCCART 456400.0 4617100.0 179.17 179.17
RE DISCCART 456500.0 4617100.0 179.64 179.64
RE DISCCART 456600.0 4617100.0 180.14 180.14
RE DISCCART 452000.0 4617200.0 179.33 179.33
RE DISCCART 452100.0 4617200.0 179.12 179.12
RE DISCCART 452200.0 4617200.0 179.3 179.3
RE DISCCART 452300.0 4617200.0 179.4 179.4
RE DISCCART 452400.0 4617200.0 179.55 179.55
RE DISCCART 452500.0 4617200.0 179.69 179.69
RE DISCCART 452600.0 4617200.0 179.59 179.59
RE DISCCART 452700.0 4617200.0 179.59 179.59
RE DISCCART 452800.0 4617200.0 179.36 179.36
RE DISCCART 452900.0 4617200.0 179.11 179.11
RE DISCCART 453000.0 4617200.0 179. 179.
RE DISCCART 453100.0 4617200.0 178.71 178.71
RE DISCCART 453200.0 4617200.0 178.37 178.37
RE DISCCART 453300.0 4617200.0 178.35 178.35
RE DISCCART 453400.0 4617200.0 178.77 178.77
RE DISCCART 453500.0 4617200.0 178.19 178.19
RE DISCCART 453600.0 4617200.0 178.35 178.35
RE DISCCART 453700.0 4617200.0 178.73 178.73
RE DISCCART 453800.0 4617200.0 178.73 178.73
RE DISCCART 453900.0 4617200.0 178.4 178.4
RE DISCCART 454000.0 4617200.0 176.92 176.92
RE DISCCART 454100.0 4617200.0 176.84 176.84
RE DISCCART 454200.0 4617200.0 176.92 176.92
RE DISCCART 454300.0 4617200.0 177.04 177.04
RE DISCCART 454400.0 4617200.0 177.07 177.07
RE DISCCART 454500.0 4617200.0 176.83 176.83
RE DISCCART 454600.0 4617200.0 175.19 175.19
RE DISCCART 454700.0 4617200.0 178.19 178.19

Phosphorus_2013_OTHER.DTA

RE DISCCART 454800.0 4617200.0 178.19 178.19
RE DISCCART 454900.0 4617200.0 178.19 178.19
RE DISCCART 455000.0 4617200.0 178.19 178.19
RE DISCCART 455100.0 4617200.0 178.21 178.21
RE DISCCART 455200.0 4617200.0 178.78 178.78
RE DISCCART 455300.0 4617200.0 179.17 179.17
RE DISCCART 455400.0 4617200.0 179.32 179.32
RE DISCCART 455500.0 4617200.0 179.55 179.55
RE DISCCART 455600.0 4617200.0 179.58 179.58
RE DISCCART 455700.0 4617200.0 179.5 179.5
RE DISCCART 455800.0 4617200.0 179.36 179.36
RE DISCCART 455900.0 4617200.0 179.13 179.13
RE DISCCART 456000.0 4617200.0 178.45 178.45
RE DISCCART 456100.0 4617200.0 178.67 186.29
RE DISCCART 456200.0 4617200.0 184.82 186.47
RE DISCCART 456300.0 4617200.0 180.47 180.47
RE DISCCART 456400.0 4617200.0 179.5 179.5
RE DISCCART 456500.0 4617200.0 180.65 180.65
RE DISCCART 456600.0 4617200.0 179.3 179.3
RE DISCCART 452000.0 4617300.0 180.38 180.38
RE DISCCART 452100.0 4617300.0 180.24 180.24
RE DISCCART 452200.0 4617300.0 179.66 179.66
RE DISCCART 452300.0 4617300.0 179.57 179.57
RE DISCCART 452400.0 4617300.0 179.69 179.69
RE DISCCART 452500.0 4617300.0 179.91 179.91
RE DISCCART 452600.0 4617300.0 179.99 179.99
RE DISCCART 452700.0 4617300.0 179.62 179.62
RE DISCCART 452800.0 4617300.0 179.49 179.49
RE DISCCART 452900.0 4617300.0 179.19 179.19
RE DISCCART 453000.0 4617300.0 178.8 178.8
RE DISCCART 453100.0 4617300.0 178.51 178.51
RE DISCCART 453200.0 4617300.0 178.34 178.34
RE DISCCART 453300.0 4617300.0 178.37 178.37
RE DISCCART 453400.0 4617300.0 179.31 179.31
RE DISCCART 453500.0 4617300.0 178.81 178.81
RE DISCCART 453600.0 4617300.0 178.62 178.62
RE DISCCART 453700.0 4617300.0 178.59 178.59
RE DISCCART 453800.0 4617300.0 178.29 178.29
RE DISCCART 453900.0 4617300.0 178.19 178.19
RE DISCCART 454000.0 4617300.0 178.28 178.28
RE DISCCART 454100.0 4617300.0 178.25 178.25
RE DISCCART 454200.0 4617300.0 178.19 178.19
RE DISCCART 454300.0 4617300.0 178.19 178.19
RE DISCCART 454400.0 4617300.0 178.19 178.19
RE DISCCART 454500.0 4617300.0 178.19 178.19
RE DISCCART 454600.0 4617300.0 175.19 175.19
RE DISCCART 454700.0 4617300.0 178.19 178.19
RE DISCCART 454800.0 4617300.0 178.19 178.19

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RE DISCCART	454900.0	4617300.0	178.19	178.19
RE DISCCART	455000.0	4617300.0	178.19	178.19
RE DISCCART	455100.0	4617300.0	178.19	178.19
RE DISCCART	455200.0	4617300.0	178.44	178.44
RE DISCCART	455300.0	4617300.0	178.92	178.92
RE DISCCART	455400.0	4617300.0	179.23	179.23
RE DISCCART	455500.0	4617300.0	179.49	179.49
RE DISCCART	455600.0	4617300.0	179.73	179.73
RE DISCCART	455700.0	4617300.0	179.7	179.7
RE DISCCART	455800.0	4617300.0	179.6	179.6
RE DISCCART	455900.0	4617300.0	179.35	179.35
RE DISCCART	456000.0	4617300.0	178.78	178.78
RE DISCCART	456100.0	4617300.0	182.07	182.07
RE DISCCART	456200.0	4617300.0	179.87	179.87
RE DISCCART	456300.0	4617300.0	179.81	179.81
RE DISCCART	456400.0	4617300.0	180.77	180.77
RE DISCCART	456500.0	4617300.0	179.43	179.43
RE DISCCART	456600.0	4617300.0	178.38	178.38
RE DISCCART	449000.0	4609000.0	183.39	183.39
RE DISCCART	449500.0	4609000.0	184.04	184.04
RE DISCCART	450000.0	4609000.0	184.29	184.29
RE DISCCART	450500.0	4609000.0	182.94	182.94
RE DISCCART	451000.0	4609000.0	180.31	180.31
RE DISCCART	451500.0	4609000.0	179.59	179.59
RE DISCCART	452000.0	4609000.0	179.19	179.19
RE DISCCART	452500.0	4609000.0	178.97	178.97
RE DISCCART	453000.0	4609000.0	178.38	178.38
RE DISCCART	453500.0	4609000.0	178.19	178.19
RE DISCCART	454000.0	4609000.0	178.19	178.19
RE DISCCART	454500.0	4609000.0	178.27	178.27
RE DISCCART	455000.0	4609000.0	178.85	178.85
RE DISCCART	455500.0	4609000.0	178.57	178.57
RE DISCCART	456000.0	4609000.0	178.11	178.11
RE DISCCART	456500.0	4609000.0	178.93	178.93
RE DISCCART	457000.0	4609000.0	179.27	179.27
RE DISCCART	457500.0	4609000.0	178.7	178.7
RE DISCCART	458000.0	4609000.0	178.44	178.44
RE DISCCART	458500.0	4609000.0	178.47	178.47
RE DISCCART	459000.0	4609000.0	178.65	178.65
RE DISCCART	459500.0	4609000.0	178.02	178.02
RE DISCCART	460000.0	4609000.0	178.48	178.48
RE DISCCART	449000.0	4609500.0	182.79	182.79
RE DISCCART	449500.0	4609500.0	183.99	183.99
RE DISCCART	450000.0	4609500.0	182.36	182.36
RE DISCCART	450500.0	4609500.0	179.44	179.44
RE DISCCART	451000.0	4609500.0	179.07	179.07
RE DISCCART	451500.0	4609500.0	178.52	178.52
RE DISCCART	452000.0	4609500.0	179.62	179.62

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RE DISCCART 452500.0 4609500.0 178.25 178.25
RE DISCCART 453000.0 4609500.0 178.19 178.19
RE DISCCART 453500.0 4609500.0 180.93 180.93
RE DISCCART 454000.0 4609500.0 178.19 178.19
RE DISCCART 454500.0 4609500.0 178.4 178.4
RE DISCCART 455000.0 4609500.0 178.19 178.19
RE DISCCART 455500.0 4609500.0 178.22 178.22
RE DISCCART 456000.0 4609500.0 178.42 178.42
RE DISCCART 456500.0 4609500.0 178.99 178.99
RE DISCCART 457000.0 4609500.0 178.92 178.92
RE DISCCART 457500.0 4609500.0 178.27 178.27
RE DISCCART 458000.0 4609500.0 179.36 179.36
RE DISCCART 458500.0 4609500.0 179.41 179.41
RE DISCCART 459000.0 4609500.0 179.02 179.02
RE DISCCART 459500.0 4609500.0 178.22 178.22
RE DISCCART 460000.0 4609500.0 178.54 178.54
RE DISCCART 449000.0 4610000.0 183.07 183.07
RE DISCCART 449500.0 4610000.0 181.97 181.97
RE DISCCART 450000.0 4610000.0 180.16 180.16
RE DISCCART 450500.0 4610000.0 179.64 179.64
RE DISCCART 451000.0 4610000.0 179. 179.
RE DISCCART 451500.0 4610000.0 179.29 179.29
RE DISCCART 452000.0 4610000.0 176.99 176.99
RE DISCCART 452500.0 4610000.0 180.55 221.91
RE DISCCART 453000.0 4610000.0 176.99 221.91
RE DISCCART 453500.0 4610000.0 178.72 178.72
RE DISCCART 454000.0 4610000.0 178.19 178.19
RE DISCCART 454500.0 4610000.0 178.19 178.19
RE DISCCART 455000.0 4610000.0 178.4 178.4
RE DISCCART 455500.0 4610000.0 178.19 178.19
RE DISCCART 456000.0 4610000.0 178.48 178.48
RE DISCCART 456500.0 4610000.0 178.53 178.53
RE DISCCART 457000.0 4610000.0 178.43 178.43
RE DISCCART 457500.0 4610000.0 177.87 177.87
RE DISCCART 458000.0 4610000.0 178.05 178.05
RE DISCCART 458500.0 4610000.0 178.35 178.35
RE DISCCART 459000.0 4610000.0 178.33 178.33
RE DISCCART 459500.0 4610000.0 179.39 179.39
RE DISCCART 460000.0 4610000.0 178.51 178.51
RE DISCCART 449000.0 4610500.0 182.7 182.7
RE DISCCART 449500.0 4610500.0 179.77 179.77
RE DISCCART 450000.0 4610500.0 178.81 183.91
RE DISCCART 450500.0 4610500.0 180.53 197.07
RE DISCCART 451000.0 4610500.0 178.61 178.61
RE DISCCART 451500.0 4610500.0 178.49 178.49
RE DISCCART 452000.0 4610500.0 180.65 180.65
RE DISCCART 452500.0 4610500.0 178.06 221.91
RE DISCCART 453000.0 4610500.0 178.46 221.91

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RE DISCCART 453500.0 4610500.0 178.48 178.48
RE DISCCART 454000.0 4610500.0 178.19 178.19
RE DISCCART 454500.0 4610500.0 178.28 178.28
RE DISCCART 455000.0 4610500.0 179.05 179.05
RE DISCCART 455500.0 4610500.0 178.19 178.19
RE DISCCART 456000.0 4610500.0 177.67 177.67
RE DISCCART 456500.0 4610500.0 178.31 178.31
RE DISCCART 457000.0 4610500.0 178.1 178.1
RE DISCCART 457500.0 4610500.0 179.27 179.27
RE DISCCART 458000.0 4610500.0 177.49 177.49
RE DISCCART 458500.0 4610500.0 178.63 178.63
RE DISCCART 459000.0 4610500.0 176.33 176.33
RE DISCCART 459500.0 4610500.0 178.92 178.92
RE DISCCART 460000.0 4610500.0 178.62 178.62
RE DISCCART 449000.0 4611000.0 180.32 180.32
RE DISCCART 449500.0 4611000.0 178.27 178.27
RE DISCCART 450000.0 4611000.0 176.99 176.99
RE DISCCART 450500.0 4611000.0 176.99 198.94
RE DISCCART 451000.0 4611000.0 182.81 185.06
RE DISCCART 451500.0 4611000.0 178.47 178.47
RE DISCCART 452000.0 4611000.0 195.12 196.88
RE DISCCART 452500.0 4611000.0 179.48 179.48
RE DISCCART 453000.0 4611000.0 176.99 176.99
RE DISCCART 453500.0 4611000.0 178.19 178.19
RE DISCCART 454000.0 4611000.0 178.19 178.19
RE DISCCART 454500.0 4611000.0 178.61 178.61
RE DISCCART 455000.0 4611000.0 178.19 178.19
RE DISCCART 455500.0 4611000.0 178.19 178.19
RE DISCCART 456000.0 4611000.0 178.7 178.7
RE DISCCART 456500.0 4611000.0 177.96 177.96
RE DISCCART 457000.0 4611000.0 178.59 178.59
RE DISCCART 457500.0 4611000.0 178.8 178.8
RE DISCCART 458000.0 4611000.0 178.78 178.78
RE DISCCART 458500.0 4611000.0 178.95 178.95
RE DISCCART 459000.0 4611000.0 178.27 178.27
RE DISCCART 459500.0 4611000.0 179.87 179.87
RE DISCCART 460000.0 4611000.0 178.26 178.26
RE DISCCART 449000.0 4611500.0 179.88 179.88
RE DISCCART 449500.0 4611500.0 179.05 179.05
RE DISCCART 450000.0 4611500.0 178.6 178.6
RE DISCCART 450500.0 4611500.0 178.39 178.39
RE DISCCART 451000.0 4611500.0 178.09 178.09
RE DISCCART 451500.0 4611500.0 180.6 225.36
RE DISCCART 452000.0 4611500.0 211.82 211.82
RE DISCCART 452500.0 4611500.0 179. 179.
RE DISCCART 453000.0 4611500.0 178.19 178.19
RE DISCCART 453500.0 4611500.0 178.19 178.19
RE DISCCART 454000.0 4611500.0 180.79 180.79

Phosphorus_2013_OTHER.DTA

RE DISCCART	454500.0	4611500.0	178.45	178.45
RE DISCCART	455000.0	4611500.0	178.19	178.19
RE DISCCART	455500.0	4611500.0	178.61	178.61
RE DISCCART	456000.0	4611500.0	179.87	179.87
RE DISCCART	456500.0	4611500.0	178.66	178.66
RE DISCCART	457000.0	4611500.0	178.36	178.36
RE DISCCART	457500.0	4611500.0	178.23	178.23
RE DISCCART	458000.0	4611500.0	179.4	179.4
RE DISCCART	458500.0	4611500.0	179.85	179.85
RE DISCCART	459000.0	4611500.0	179.46	179.46
RE DISCCART	459500.0	4611500.0	179.19	179.19
RE DISCCART	460000.0	4611500.0	179.52	183.95
RE DISCCART	449000.0	4612000.0	179.69	179.69
RE DISCCART	449500.0	4612000.0	179.49	179.49
RE DISCCART	450000.0	4612000.0	179.38	179.38
RE DISCCART	450500.0	4612000.0	178.34	178.34
RE DISCCART	451000.0	4612000.0	182.39	182.39
RE DISCCART	451500.0	4612000.0	182.37	225.05
RE DISCCART	452000.0	4612000.0	181.49	225.36
RE DISCCART	452500.0	4612000.0	184.12	184.12
RE DISCCART	453000.0	4612000.0	184.95	184.95
RE DISCCART	453500.0	4612000.0	178.57	178.57
RE DISCCART	454000.0	4612000.0	180.49	180.49
RE DISCCART	454500.0	4612000.0	178.19	178.19
RE DISCCART	455000.0	4612000.0	178.19	178.19
RE DISCCART	455500.0	4612000.0	178.54	178.54
RE DISCCART	456000.0	4612000.0	177.55	177.55
RE DISCCART	456500.0	4612000.0	178.45	178.45
RE DISCCART	457000.0	4612000.0	187.07	187.07
RE DISCCART	457500.0	4612000.0	178.9	178.9
RE DISCCART	458000.0	4612000.0	180.18	180.18
RE DISCCART	458500.0	4612000.0	181.27	181.27
RE DISCCART	459000.0	4612000.0	179.48	179.48
RE DISCCART	459500.0	4612000.0	179.18	179.18
RE DISCCART	460000.0	4612000.0	179.39	179.39
RE DISCCART	449000.0	4612500.0	179.7	179.7
RE DISCCART	449500.0	4612500.0	179.59	179.59
RE DISCCART	450000.0	4612500.0	179.77	179.77
RE DISCCART	450500.0	4612500.0	178.49	178.49
RE DISCCART	451000.0	4612500.0	179.71	179.71
RE DISCCART	451500.0	4612500.0	178.63	178.63
RE DISCCART	457000.0	4612500.0	179.	179.
RE DISCCART	457500.0	4612500.0	179.42	179.42
RE DISCCART	458000.0	4612500.0	188.17	188.17
RE DISCCART	458500.0	4612500.0	183.15	183.15
RE DISCCART	459000.0	4612500.0	178.08	178.08
RE DISCCART	459500.0	4612500.0	178.89	178.89
RE DISCCART	460000.0	4612500.0	180.61	180.61

Phosphorus_2013_OTHER.DTA

RE DISCCART	449000.0	4613000.0	179.78	179.78
RE DISCCART	449500.0	4613000.0	178.49	178.49
RE DISCCART	450000.0	4613000.0	179.65	179.65
RE DISCCART	450500.0	4613000.0	178.49	178.49
RE DISCCART	451000.0	4613000.0	175.19	175.19
RE DISCCART	451500.0	4613000.0	178.29	178.29
RE DISCCART	457000.0	4613000.0	177.09	177.09
RE DISCCART	457500.0	4613000.0	178.28	178.28
RE DISCCART	458000.0	4613000.0	176.93	176.93
RE DISCCART	458500.0	4613000.0	177.27	177.27
RE DISCCART	459000.0	4613000.0	178.45	178.45
RE DISCCART	459500.0	4613000.0	178.96	178.96
RE DISCCART	460000.0	4613000.0	179.67	179.67
RE DISCCART	449000.0	4613500.0	181.28	181.28
RE DISCCART	449500.0	4613500.0	179.69	179.69
RE DISCCART	450000.0	4613500.0	179.19	179.19
RE DISCCART	450500.0	4613500.0	178.29	178.29
RE DISCCART	451000.0	4613500.0	177.27	178.48
RE DISCCART	451500.0	4613500.0	178.39	178.39
RE DISCCART	457000.0	4613500.0	177.09	177.09
RE DISCCART	457500.0	4613500.0	177.09	177.09
RE DISCCART	458000.0	4613500.0	176.95	176.95
RE DISCCART	458500.0	4613500.0	180.9	180.9
RE DISCCART	459000.0	4613500.0	178.18	178.18
RE DISCCART	459500.0	4613500.0	179.99	179.99
RE DISCCART	460000.0	4613500.0	179.91	179.91
RE DISCCART	449000.0	4614000.0	182.54	182.54
RE DISCCART	449500.0	4614000.0	179.72	179.72
RE DISCCART	450000.0	4614000.0	178.74	178.74
RE DISCCART	450500.0	4614000.0	175.19	175.19
RE DISCCART	451000.0	4614000.0	175.19	175.19
RE DISCCART	451500.0	4614000.0	178.29	178.29
RE DISCCART	457000.0	4614000.0	177.09	177.09
RE DISCCART	457500.0	4614000.0	177.85	177.85
RE DISCCART	458000.0	4614000.0	177.94	177.94
RE DISCCART	458500.0	4614000.0	177.86	177.86
RE DISCCART	459000.0	4614000.0	178.75	178.75
RE DISCCART	459500.0	4614000.0	180.26	180.26
RE DISCCART	460000.0	4614000.0	179.27	179.27
RE DISCCART	449000.0	4614500.0	180.54	180.54
RE DISCCART	449500.0	4614500.0	179.65	179.65
RE DISCCART	450000.0	4614500.0	178.29	178.29
RE DISCCART	450500.0	4614500.0	175.19	175.19
RE DISCCART	451000.0	4614500.0	175.19	175.19
RE DISCCART	451500.0	4614500.0	177.32	177.32
RE DISCCART	457000.0	4614500.0	177.09	177.09
RE DISCCART	457500.0	4614500.0	177.65	177.65
RE DISCCART	458000.0	4614500.0	178.39	178.39

Phosphorus_2013_OTHER.DTA

RE DISCCART	458500.0	4614500.0	178.24	178.24
RE DISCCART	459000.0	4614500.0	179.16	179.16
RE DISCCART	459500.0	4614500.0	180.73	180.73
RE DISCCART	460000.0	4614500.0	175.54	175.54
RE DISCCART	449000.0	4615000.0	182.59	182.59
RE DISCCART	449500.0	4615000.0	179.69	179.69
RE DISCCART	450000.0	4615000.0	178.7	178.7
RE DISCCART	450500.0	4615000.0	178.29	178.29
RE DISCCART	451000.0	4615000.0	175.19	175.19
RE DISCCART	451500.0	4615000.0	175.19	175.19
RE DISCCART	457000.0	4615000.0	177.09	177.09
RE DISCCART	457500.0	4615000.0	177.74	177.74
RE DISCCART	458000.0	4615000.0	178.06	178.06
RE DISCCART	458500.0	4615000.0	178.77	178.77
RE DISCCART	459000.0	4615000.0	175.54	175.54
RE DISCCART	459500.0	4615000.0	175.54	175.54
RE DISCCART	460000.0	4615000.0	175.54	175.54
RE DISCCART	449000.0	4615500.0	181.36	181.36
RE DISCCART	449500.0	4615500.0	179.54	179.54
RE DISCCART	450000.0	4615500.0	178.59	178.59
RE DISCCART	450500.0	4615500.0	180.56	183.03
RE DISCCART	451000.0	4615500.0	178.29	178.29
RE DISCCART	451500.0	4615500.0	175.49	175.49
RE DISCCART	457000.0	4615500.0	178.48	178.48
RE DISCCART	457500.0	4615500.0	178.16	178.16
RE DISCCART	458000.0	4615500.0	179.33	179.33
RE DISCCART	458500.0	4615500.0	175.54	175.54
RE DISCCART	459000.0	4615500.0	175.54	175.54
RE DISCCART	459500.0	4615500.0	175.54	175.54
RE DISCCART	460000.0	4615500.0	175.23	175.23
RE DISCCART	449000.0	4616000.0	181.66	181.66
RE DISCCART	449500.0	4616000.0	180.79	180.79
RE DISCCART	450000.0	4616000.0	179.31	179.31
RE DISCCART	450500.0	4616000.0	184.68	184.68
RE DISCCART	451000.0	4616000.0	185.29	185.29
RE DISCCART	451500.0	4616000.0	176.55	178.43
RE DISCCART	457000.0	4616000.0	178.64	185.35
RE DISCCART	457500.0	4616000.0	179.75	179.75
RE DISCCART	458000.0	4616000.0	175.54	175.54
RE DISCCART	458500.0	4616000.0	175.54	175.54
RE DISCCART	459000.0	4616000.0	175.53	175.53
RE DISCCART	459500.0	4616000.0	175.19	175.19
RE DISCCART	460000.0	4616000.0	175.19	175.19
RE DISCCART	449000.0	4616500.0	182.19	182.19
RE DISCCART	449500.0	4616500.0	181.91	181.91
RE DISCCART	450000.0	4616500.0	179.29	179.29
RE DISCCART	450500.0	4616500.0	179.57	179.57
RE DISCCART	451000.0	4616500.0	191.5	191.5

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RE DISCCART 451500.0 4616500.0 194. 194.
RE DISCCART 457000.0 4616500.0 179.22 179.22
RE DISCCART 457500.0 4616500.0 175.54 175.54
RE DISCCART 458000.0 4616500.0 175.54 175.54
RE DISCCART 458500.0 4616500.0 175.4 175.4
RE DISCCART 459000.0 4616500.0 175.19 175.19
RE DISCCART 459500.0 4616500.0 175.19 175.19
RE DISCCART 460000.0 4616500.0 175.19 175.19
RE DISCCART 449000.0 4617000.0 182.05 182.05
RE DISCCART 449500.0 4617000.0 182.45 182.45
RE DISCCART 450000.0 4617000.0 179.91 179.91
RE DISCCART 450500.0 4617000.0 180.45 180.45
RE DISCCART 451000.0 4617000.0 184.01 185.93
RE DISCCART 451500.0 4617000.0 183.08 183.08
RE DISCCART 457000.0 4617000.0 178.93 178.93
RE DISCCART 457500.0 4617000.0 175.54 175.54
RE DISCCART 458000.0 4617000.0 175.29 175.29
RE DISCCART 458500.0 4617000.0 175.19 175.19
RE DISCCART 459000.0 4617000.0 175.19 175.19
RE DISCCART 459500.0 4617000.0 175.19 175.19
RE DISCCART 460000.0 4617000.0 175.19 175.19
RE DISCCART 449000.0 4617500.0 181.75 181.75
RE DISCCART 449500.0 4617500.0 182.79 182.79
RE DISCCART 450000.0 4617500.0 180.89 180.89
RE DISCCART 450500.0 4617500.0 179.74 179.74
RE DISCCART 451000.0 4617500.0 179.68 179.68
RE DISCCART 451500.0 4617500.0 178.94 178.94
RE DISCCART 452000.0 4617500.0 186.46 186.46
RE DISCCART 452500.0 4617500.0 183.11 183.11
RE DISCCART 453000.0 4617500.0 178.65 178.65
RE DISCCART 453500.0 4617500.0 180.31 180.31
RE DISCCART 454000.0 4617500.0 178.21 178.21
RE DISCCART 454500.0 4617500.0 178.23 178.23
RE DISCCART 455000.0 4617500.0 178.19 178.19
RE DISCCART 455500.0 4617500.0 179.82 179.82
RE DISCCART 456000.0 4617500.0 179.87 179.87
RE DISCCART 456500.0 4617500.0 178.43 178.43
RE DISCCART 457000.0 4617500.0 175.54 175.54
RE DISCCART 457500.0 4617500.0 175.54 175.54
RE DISCCART 458000.0 4617500.0 175.19 175.19
RE DISCCART 458500.0 4617500.0 175.19 175.19
RE DISCCART 459000.0 4617500.0 175.19 175.19
RE DISCCART 459500.0 4617500.0 175.19 175.19
RE DISCCART 460000.0 4617500.0 175.19 175.19
RE DISCCART 449000.0 4618000.0 181.45 181.45
RE DISCCART 449500.0 4618000.0 181.73 181.73
RE DISCCART 450000.0 4618000.0 182.15 182.15
RE DISCCART 450500.0 4618000.0 183.71 183.71

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RE DISCCART	451000.0	4618000.0	179.78	179.78
RE DISCCART	451500.0	4618000.0	180.32	180.32
RE DISCCART	452000.0	4618000.0	179.69	179.69
RE DISCCART	452500.0	4618000.0	178.58	178.58
RE DISCCART	453000.0	4618000.0	178.49	178.49
RE DISCCART	453500.0	4618000.0	181.2	181.2
RE DISCCART	454000.0	4618000.0	178.78	178.78
RE DISCCART	454500.0	4618000.0	178.88	178.88
RE DISCCART	455000.0	4618000.0	178.68	178.68
RE DISCCART	455500.0	4618000.0	180.34	180.34
RE DISCCART	456000.0	4618000.0	179.52	179.52
RE DISCCART	456500.0	4618000.0	175.54	175.54
RE DISCCART	457000.0	4618000.0	175.54	175.54
RE DISCCART	457500.0	4618000.0	175.36	175.36
RE DISCCART	458000.0	4618000.0	175.19	175.19
RE DISCCART	458500.0	4618000.0	175.19	175.19
RE DISCCART	459000.0	4618000.0	175.19	175.19
RE DISCCART	459500.0	4618000.0	175.19	175.19
RE DISCCART	460000.0	4618000.0	175.19	175.19
RE DISCCART	449000.0	4618500.0	182.16	182.16
RE DISCCART	449500.0	4618500.0	182.49	182.49
RE DISCCART	450000.0	4618500.0	181.76	181.76
RE DISCCART	450500.0	4618500.0	183.49	183.49
RE DISCCART	451000.0	4618500.0	178.27	178.27
RE DISCCART	451500.0	4618500.0	179.93	179.93
RE DISCCART	452000.0	4618500.0	179.17	179.17
RE DISCCART	452500.0	4618500.0	178.57	178.57
RE DISCCART	453000.0	4618500.0	178.48	178.48
RE DISCCART	453500.0	4618500.0	178.28	178.28
RE DISCCART	454000.0	4618500.0	178.55	178.55
RE DISCCART	454500.0	4618500.0	179.47	179.47
RE DISCCART	455000.0	4618500.0	175.26	186.99
RE DISCCART	455500.0	4618500.0	179.69	179.69
RE DISCCART	456000.0	4618500.0	179.77	179.77
RE DISCCART	456500.0	4618500.0	175.54	175.54
RE DISCCART	457000.0	4618500.0	175.4	175.4
RE DISCCART	457500.0	4618500.0	175.19	175.19
RE DISCCART	458000.0	4618500.0	175.19	175.19
RE DISCCART	458500.0	4618500.0	175.19	175.19
RE DISCCART	459000.0	4618500.0	175.19	175.19
RE DISCCART	459500.0	4618500.0	175.19	175.19
RE DISCCART	460000.0	4618500.0	175.19	175.19
RE DISCCART	449000.0	4619000.0	182.29	182.29
RE DISCCART	449500.0	4619000.0	180.94	180.94
RE DISCCART	450000.0	4619000.0	180.4	180.4
RE DISCCART	450500.0	4619000.0	178.6	178.6
RE DISCCART	451000.0	4619000.0	178.27	178.27
RE DISCCART	451500.0	4619000.0	178.55	178.55

Phosphorus_2013_OTHER.DTA

RE DISCCART	452000.0	4619000.0	178.29	178.29
RE DISCCART	452500.0	4619000.0	178.2	178.2
RE DISCCART	453000.0	4619000.0	179.85	179.85
RE DISCCART	453500.0	4619000.0	183.24	183.24
RE DISCCART	454000.0	4619000.0	178.17	178.17
RE DISCCART	454500.0	4619000.0	182.73	182.73
RE DISCCART	455000.0	4619000.0	179.08	179.08
RE DISCCART	455500.0	4619000.0	179.7	179.7
RE DISCCART	456000.0	4619000.0	182.38	182.38
RE DISCCART	456500.0	4619000.0	175.19	175.19
RE DISCCART	457000.0	4619000.0	175.19	175.19
RE DISCCART	457500.0	4619000.0	175.19	175.19
RE DISCCART	458000.0	4619000.0	175.19	175.19
RE DISCCART	458500.0	4619000.0	175.19	175.19
RE DISCCART	459000.0	4619000.0	175.19	175.19
RE DISCCART	459500.0	4619000.0	175.19	175.19
RE DISCCART	460000.0	4619000.0	175.19	175.19
RE DISCCART	449000.0	4619500.0	181.64	181.64
RE DISCCART	449500.0	4619500.0	183.2	183.2
RE DISCCART	450000.0	4619500.0	180.81	180.81
RE DISCCART	450500.0	4619500.0	179.87	179.87
RE DISCCART	451000.0	4619500.0	180.41	180.41
RE DISCCART	451500.0	4619500.0	182.21	182.21
RE DISCCART	452000.0	4619500.0	182.86	182.86
RE DISCCART	452500.0	4619500.0	182.58	182.58
RE DISCCART	453000.0	4619500.0	180.85	180.85
RE DISCCART	453500.0	4619500.0	178.24	178.24
RE DISCCART	454000.0	4619500.0	182.29	182.29
RE DISCCART	454500.0	4619500.0	179.21	179.21
RE DISCCART	455000.0	4619500.0	176.81	176.81
RE DISCCART	455500.0	4619500.0	181.56	181.56
RE DISCCART	456000.0	4619500.0	181.12	181.12
RE DISCCART	456500.0	4619500.0	175.19	175.19
RE DISCCART	457000.0	4619500.0	175.19	175.19
RE DISCCART	457500.0	4619500.0	175.19	175.19
RE DISCCART	458000.0	4619500.0	175.19	175.19
RE DISCCART	458500.0	4619500.0	175.19	175.19
RE DISCCART	459000.0	4619500.0	175.19	175.19
RE DISCCART	459500.0	4619500.0	175.19	175.19
RE DISCCART	460000.0	4619500.0	175.19	175.19
RE DISCCART	449000.0	4620000.0	178.09	178.09
RE DISCCART	449500.0	4620000.0	181.25	181.25
RE DISCCART	450000.0	4620000.0	182.61	182.61
RE DISCCART	450500.0	4620000.0	178.48	178.48
RE DISCCART	451000.0	4620000.0	178.88	178.88
RE DISCCART	451500.0	4620000.0	178.53	178.53
RE DISCCART	452000.0	4620000.0	178.87	178.87
RE DISCCART	452500.0	4620000.0	179.53	179.53

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RE DISCCART 453000.0 4620000.0 178.93 178.93
RE DISCCART 453500.0 4620000.0 184.25 184.25
RE DISCCART 454000.0 4620000.0 179.77 179.77
RE DISCCART 454500.0 4620000.0 179.69 179.69
RE DISCCART 455000.0 4620000.0 179.43 179.43
RE DISCCART 455500.0 4620000.0 175.19 175.19
RE DISCCART 456000.0 4620000.0 182.51 182.51
RE DISCCART 456500.0 4620000.0 175.19 175.19
RE DISCCART 457000.0 4620000.0 175.19 175.19
RE DISCCART 457500.0 4620000.0 175.19 175.19
RE DISCCART 458000.0 4620000.0 175.19 175.19
RE DISCCART 458500.0 4620000.0 175.19 175.19
RE DISCCART 459000.0 4620000.0 175.19 175.19
RE DISCCART 459500.0 4620000.0 175.19 175.19
RE DISCCART 460000.0 4620000.0 175.19 175.19
RE DISCCART 449000.0 4620500.0 179.94 179.94
RE DISCCART 449500.0 4620500.0 180.73 180.73
RE DISCCART 450000.0 4620500.0 181.21 181.21
RE DISCCART 450500.0 4620500.0 179.86 179.86
RE DISCCART 451000.0 4620500.0 178.19 178.19
RE DISCCART 451500.0 4620500.0 178.78 178.78
RE DISCCART 452000.0 4620500.0 180.45 180.45
RE DISCCART 452500.0 4620500.0 182.02 182.02
RE DISCCART 453000.0 4620500.0 184.42 184.42
RE DISCCART 453500.0 4620500.0 180.54 180.54
RE DISCCART 454000.0 4620500.0 179.79 179.79
RE DISCCART 454500.0 4620500.0 178.85 178.85
RE DISCCART 455000.0 4620500.0 178.95 178.95
RE DISCCART 455500.0 4620500.0 180.39 180.39
RE DISCCART 456000.0 4620500.0 176.82 180.36
RE DISCCART 456500.0 4620500.0 175.19 175.19
RE DISCCART 457000.0 4620500.0 175.19 175.19
RE DISCCART 457500.0 4620500.0 175.19 175.19
RE DISCCART 458000.0 4620500.0 175.19 175.19
RE DISCCART 458500.0 4620500.0 175.19 175.19
RE DISCCART 459000.0 4620500.0 175.19 175.19
RE DISCCART 459500.0 4620500.0 175.19 175.19
RE DISCCART 460000.0 4620500.0 175.19 175.19
RE FINISHED

ME STARTING
ME SURFFILE "MDW_DVN_2013.SFC" FREE
ME PROFFILE "MDW_DVN_2013.PFL" FREE
ME SURFDATA 14819 2013 "CHICAGO MIDWAY INTL ARPT, IL"
ME UAIRDATA 94982 2013 "DAVENPORT MUNICIPAL AIRPT, IA"
ME PROFBASE 175 METERS
ME FINISHED

Phosphorus_2013_OTHER.DTA

OU STARTING
OU RECTABLE 24 FIRST
OU PLOTFILE 24 ALL FIRST "Phosphorus_2013_OTHER.GRF" 31
OU PLOTFILE ANNUAL ALL "Phosphorus_2013_OTHER.GRF" 31
OU SUMMFILE "Phosphorus_2013_OTHER.SUM"
OU FINISHED

Phosphorus_2014_OTHER.DTA

 BEEST Express Run *****
 **BEE-Line Software: (Version 12.01) data input file
 ** Model: AERMOD File Creation Date: 2/7/2020 Time: 1:35:37 PM
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CO STARTING
 CO TITLEONE Title One
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SO STARTING
 SO ELEVUNIT METERS
 SO LOCATION RTO POINT 454280.579 4614874.64 178.19
 SO SRCPARAM RTO 0.0153087424873 12.4968 314.26 12.914194 1.8288
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO XBADJ RTO 6.90 3.87 0.73 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 -40.62 -44.68 -47.38
 SO XBADJ RTO -48.63 -48.42 -46.73 -47.44 -47.36 -45.83
 SO XBADJ RTO -42.92 -38.70 -33.30 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 1.61 4.89 8.03
 SO XBADJ RTO 10.92 13.47 15.62 14.39 12.24 9.72
 SO YBADJ RTO 21.11 24.78 27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 24.91 21.29 17.01
 SO YBADJ RTO 12.05 5.52 -1.19 -6.80 -11.98 -16.80
 SO YBADJ RTO -21.11 -24.78 -27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 -24.91 -21.29 -17.01
 SO YBADJ RTO -12.05 -5.52 1.19 6.80 11.98 16.80

Phosphorus_2014_OTHER.DTA

S0 LOCATION V1 VOLUME	454297.692	4614928.02	178.19				
S0 SRCPARAM V1	3.950033555E-05	0.6096	0.70884288	0.5670804			
S0 LOCATION V2 VOLUME	454259.682	4614907.47	178.19				
S0 SRCPARAM V2	4.762719885E-06	9.144	5.95423752	8.5060536			
S0 LOCATION V3 VOLUME	454235.875	4614892.42	178.19				
S0 SRCPARAM V3	1.469135287E-05	0.6096	0.42528744	0.5670804			
S0 LOCATION V4 VOLUME	454226.98	4614887.08	178.19				
S0 SRCPARAM V4	1.259474814E-06	3.81	3.54418392	3.54418392			
S0 LOCATION V5 VOLUME	454218.08	4614878.54	178.19				
S0 SRCPARAM V5	1.974386788E-05	3.81	1.41768576	3.54418392			
S0 LOCATION V6 VOLUME	454225.909	4614867.5	178.19				
S0 SRCPARAM V6	2.455698692E-05	5.334	4.2530268	4.96186968			
S0 LOCATION V7 VOLUME	454197.08	4614871.06	178.19				
S0 SRCPARAM V7	1.530874249E-05	4.572	1.41768576	4.2530268			
S0 LOCATION V8 VOLUME	454193.521	4614874.62	178.19				
S0 SRCPARAM V8	2.561536912E-06	4.572	1.41768576	4.2530268			
S0 LOCATION V9 VOLUME	454213.452	4614885.66	178.19				
S0 SRCPARAM V9	4.837058634E-06	3.81	1.7721072	3.54418392			
S0 LOCATION V10 VOLUME	454173.38	4614858.04	178.19				
S0 SRCPARAM V10	2.53129742E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION V11 VOLUME	454170.92	4614872.75	178.19				
S0 SRCPARAM V11	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V12 VOLUME	454179.64	4614840.61	178.19				
S0 SRCPARAM V12	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V13 VOLUME	454094.65	4614815.89	177.72				
S0 SRCPARAM V13	5.954659835E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION VN1 VOLUME	454294.913	4614781.55	178.19				
S0 SRCPARAM VN1	2.286861532E-04	6.096	7.08836784	5.67071256			
S0 LOCATION VN2 VOLUME	454328.547	4614797.57	178.19				
S0 SRCPARAM VN2	6.349033201E-05	6.096	7.08836784	5.67071256			
S0 LOCATION VN3 VOLUME	454345.365	4614834.4	178.19				
S0 SRCPARAM VN3	1.300298127E-04	3.81	7.08836784	3.54418392			
S0 LOCATION VN4 VOLUME	454300.519	4614814.38	178.19				
S0 SRCPARAM VN4	5.601865769E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN5 VOLUME	454338.158	4614842.41	178.19				
S0 SRCPARAM VN5	3.682918049E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN6 VOLUME	454383.003	4614853.62	178.19				
S0 SRCPARAM VN6	5.184812785E-05	3.81	2.83534104	3.54418392			
S0 LOCATION DC1 POINT	454378.438	4614823.04	178.19				
S0 SRCPARAM DC1	6.052938182E-05	14.3256	295.37	19.404171	0.6096		
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDWID DC1		66.64	68.61	68.49	66.29	62.07	55.97
S0 BUILDWID DC1		60.44	65.23	68.04	68.78	67.44	64.04

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SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDWID DC1	66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1	60.44	65.23	68.04	68.78	67.44	64.04
SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO XBADJ DC1	-55.37	-56.48	-55.86	-53.55	-49.61	-44.17
SO XBADJ DC1	-45.52	-46.90	-46.86	-45.39	-42.55	-38.41
SO XBADJ DC1	-33.11	-26.80	-19.67	-18.08	-17.02	-15.45
SO XBADJ DC1	-13.41	-10.96	-8.18	-5.15	-1.96	1.29
SO XBADJ DC1	-3.62	-9.86	-15.79	-21.25	-26.06	-30.08
SO XBADJ DC1	-33.18	-35.28	-36.30	-42.36	-48.21	-52.59
SO YBADJ DC1	12.07	8.24	4.17	-0.04	-4.24	-8.32
SO YBADJ DC1	-12.14	-15.59	-18.57	-20.98	-22.76	-23.84
SO YBADJ DC1	-24.20	-23.83	-22.73	-20.95	-18.52	-15.53
SO YBADJ DC1	-12.07	-8.24	-4.17	0.04	4.24	8.32
SO YBADJ DC1	12.14	15.59	18.57	20.98	22.76	23.84
SO YBADJ DC1	24.20	23.83	22.73	20.95	18.52	15.53
SO LOCATION AB_0001 VOLUME	454569.7	4615033.84	178.19			
SO SRCPARAM AB_0001	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0002 VOLUME	454557.7	4615033.84	178.19			
SO SRCPARAM AB_0002	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0003 VOLUME	454545.7	4615033.84	178.19			
SO SRCPARAM AB_0003	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0004 VOLUME	454533.7	4615033.84	178.19			
SO SRCPARAM AB_0004	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0005 VOLUME	454521.7	4615033.84	178.19			
SO SRCPARAM AB_0005	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0006 VOLUME	454509.7	4615033.84	178.19			
SO SRCPARAM AB_0006	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0007 VOLUME	454497.7	4615033.84	178.19			
SO SRCPARAM AB_0007	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0008 VOLUME	454485.7	4615033.84	178.19			
SO SRCPARAM AB_0008	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0009 VOLUME	454473.7	4615033.84	178.19			
SO SRCPARAM AB_0009	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0010 VOLUME	454461.7	4615033.84	178.19			
SO SRCPARAM AB_0010	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION CDE_0001 VOLUME	454449.996	4615030.05	178.19			
SO SRCPARAM CDE_0001	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0002 VOLUME	454440.148	4615023.19	178.19			
SO SRCPARAM CDE_0002	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0003 VOLUME	454430.299	4615016.34	178.19			
SO SRCPARAM CDE_0003	1.272326598E-06	2.59	5.58	2.41		

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SO	LOCATION	CDE_0004	VOLUME	454420.675	4615009.19	178.19
SO	SRCPARAM	CDE_0004	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0005	VOLUME	454411.484	4615001.47	178.19
SO	SRCPARAM	CDE_0005	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0006	VOLUME	454402.292	4614993.76	178.19
SO	SRCPARAM	CDE_0006	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0007	VOLUME	454394.404	4614984.73	178.19
SO	SRCPARAM	CDE_0007	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0008	VOLUME	454386.594	4614975.62	178.19
SO	SRCPARAM	CDE_0008	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0009	VOLUME	454380.888	4614965.12	178.19
SO	SRCPARAM	CDE_0009	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0010	VOLUME	454375.67	4614954.32	178.19
SO	SRCPARAM	CDE_0010	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0011	VOLUME	454370.542	4614943.47	178.19
SO	SRCPARAM	CDE_0011	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0012	VOLUME	454366.572	4614932.28	178.19
SO	SRCPARAM	CDE_0012	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0013	VOLUME	454364.926	4614920.39	178.19
SO	SRCPARAM	CDE_0013	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0014	VOLUME	454361.686	4614909.6	178.19
SO	SRCPARAM	CDE_0014	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0015	VOLUME	454351.165	4614903.83	178.19
SO	SRCPARAM	CDE_0015	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0016	VOLUME	454340.644	4614898.06	178.19
SO	SRCPARAM	CDE_0016	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0017	VOLUME	454330.123	4614892.29	178.19
SO	SRCPARAM	CDE_0017	1.272326598E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0018	VOLUME	454319.602	4614886.52	178.19
SO	SRCPARAM	CDE_0018	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0019	VOLUME	454309.08	4614880.75	178.19
SO	SRCPARAM	CDE_0019	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0020	VOLUME	454298.559	4614874.97	178.19
SO	SRCPARAM	CDE_0020	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0021	VOLUME	454288.038	4614869.2	178.19
SO	SRCPARAM	CDE_0021	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0022	VOLUME	454277.517	4614863.43	178.19
SO	SRCPARAM	CDE_0022	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0023	VOLUME	454266.996	4614857.66	178.19
SO	SRCPARAM	CDE_0023	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0024	VOLUME	454256.475	4614851.89	178.19
SO	SRCPARAM	CDE_0024	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0025	VOLUME	454245.953	4614846.12	178.19
SO	SRCPARAM	CDE_0025	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0026	VOLUME	454235.432	4614840.35	178.19
SO	SRCPARAM	CDE_0026	2.643561532E-06	2.59	5.58	2.41
SO	LOCATION	CDE_0027	VOLUME	454224.911	4614834.58	178.19
SO	SRCPARAM	CDE_0027	2.643561532E-06	2.59	5.58	2.41

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SO LOCATION CDE_0028 VOLUME 454214.39 4614828.81 178.19
SO SRCPARAM CDE_0028 2.643561532E-06 2.59 5.58 2.41
SO LOCATION CDE_0029 VOLUME 454203.869 4614823.03 178.19
SO SRCPARAM CDE_0029 2.643561532E-06 2.59 5.58 2.41
SO LOCATION I_0001 VOLUME 454452.749 4615028.45 178.19
SO SRCPARAM I_0001 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0002 VOLUME 454447.62 4615017.6 178.19
SO SRCPARAM I_0002 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0003 VOLUME 454442.491 4615006.75 178.19
SO SRCPARAM I_0003 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0004 VOLUME 454437.363 4614995.9 178.19
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SO LOCATION I_0005 VOLUME 454432.234 4614985.05 178.19
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SO LOCATION I_0006 VOLUME 454427.105 4614974.21 178.19
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SO LOCATION I_0007 VOLUME 454421.976 4614963.36 178.19
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SO LOCATION I_0008 VOLUME 454416.847 4614952.51 178.19
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SO LOCATION I_0009 VOLUME 454411.718 4614941.66 178.19
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SO LOCATION I_0010 VOLUME 454406.589 4614930.81 178.19
SO SRCPARAM I_0010 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0011 VOLUME 454401.46 4614919.96 178.19
SO SRCPARAM I_0011 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0012 VOLUME 454396.332 4614909.11 178.19
SO SRCPARAM I_0012 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0013 VOLUME 454391.203 4614898.26 178.19
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SO LOCATION I_0014 VOLUME 454386.074 4614887.42 178.19
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SO LOCATION I_0015 VOLUME 454380.945 4614876.57 178.19
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SO LOCATION I_0016 VOLUME 454375.816 4614865.72 178.19
SO SRCPARAM I_0016 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0017 VOLUME 454370.687 4614854.87 178.19
SO SRCPARAM I_0017 2.763889508E-07 2.59 5.58 2.41
SO LOCATION H_0001 VOLUME 454569.74 4615048.61 178.19
SO SRCPARAM H_0001 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0002 VOLUME 454557.74 4615048.58 178.19
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SO LOCATION H_0003 VOLUME 454545.74 4615048.55 178.19
SO SRCPARAM H_0003 1.777830095E-06 2.59 5.58 2.41
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SO SRCPARAM H_0004 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0005 VOLUME 454521.74 4615048.48 178.19
SO SRCPARAM H_0005 1.777830095E-06 2.59 5.58 2.41

Phosphorus_2014_OTHER.DTA

SO LOCATION H_0006 VOLUME 454509.74 4615048.45 178.19
SO SRCPARAM H_0006 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0007 VOLUME 454497.74 4615048.41 178.19
SO SRCPARAM H_0007 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0008 VOLUME 454485.74 4615048.38 178.19
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SO LOCATION H_0009 VOLUME 454473.826 4615049.52 178.19
SO SRCPARAM H_0009 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0010 VOLUME 454462.408 4615052.96 178.19
SO SRCPARAM H_0010 1.777830095E-06 2.59 5.58 2.41
SO LOCATION FG_0001 VOLUME 454450.378 4615031.43 178.19
SO SRCPARAM FG_0001 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0002 VOLUME 454439.841 4615025.69 178.19
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SO LOCATION FG_0003 VOLUME 454429.304 4615019.95 178.19
SO SRCPARAM FG_0003 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0004 VOLUME 454418.767 4615014.21 178.19
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SO LOCATION FG_0005 VOLUME 454408.23 4615008.46 178.19
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SO LOCATION FG_0006 VOLUME 454397.693 4615002.72 178.19
SO SRCPARAM FG_0006 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0007 VOLUME 454387.156 4614996.98 178.19
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SO LOCATION FG_0008 VOLUME 454376.619 4614991.24 178.19
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SO SRCPARAM FG_0011 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0012 VOLUME 454334.471 4614968.27 178.19
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SO SRCPARAM FG_0015 2.674557011E-06 2.59 5.58 2.41
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SO LOCATION FG_0017 VOLUME 454277.714 4614954.82 178.19
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SO LOCATION FG_0018 VOLUME 454266.978 4614949.96 178.19
SO SRCPARAM FG_0018 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0019 VOLUME 454256.532 4614944.06 178.19
SO SRCPARAM FG_0019 2.674557011E-06 2.59 5.58 2.41

Phosphorus_2014_OTHER.DTA

SO LOCATION FG_0020 VOLUME 454246.087 4614938.15 178.19
 SO SRCPARAM FG_0020 2.674557011E-06 2.59 5.58 2.41
 SO LOCATION FG_0021 VOLUME 454235.642 4614932.24 178.19
 SO SRCPARAM FG_0021 2.674557011E-06 2.59 5.58 2.41
 SO LOCATION FG_0022 VOLUME 454225.196 4614926.34 178.19
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 SO LOCATION FG_0023 VOLUME 454214.751 4614920.43 178.19
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 SO LOCATION FG_0024 VOLUME 454204.305 4614914.52 178.19
 SO SRCPARAM FG_0024 2.674557011E-06 2.59 5.58 2.41
 SO LOCATION FG_0025 VOLUME 454193.86 4614908.61 178.19
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SO EMISFACT	FG_0006	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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SO EMISFACT	FG_0007	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0008	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0008	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0009	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0009	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0010	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0010	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0011	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0011	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0012	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0012	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0013	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0013	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0014	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0014	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0015	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0015	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0016	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0016	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0017	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0017	HRDOW	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO EMISFACT	FG_0018	HRDOW	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0

Phosphorus_2014_OTHER.DTA

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SO EMISFACT FG_0018 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0019 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0019 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0020 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0020 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0021 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0021 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0022 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0022 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0023 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0023 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0024 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0024 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT FG_0025 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0025 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
SO EMISFACT V6 HRDOW 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1
SO EMISFACT V6 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
SO EMISFACT V13 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1
SO EMISFACT V13 HRDOW 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V10 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1.7456 1.7456 1.7456 1.7456 0 0
0 0 0 0 0 0 0 0 1 1 1 1 1
SO EMISFACT V10 HRDOW 1 1 1 1.7456 1.7456 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
SO SRCGROUP ALL
SO FINISHED

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RE STARTING
RE ELEVUNIT METERS

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RE DISCCART	454084.4	4615065.4	176.19	178.19
RE DISCCART	454083.3	4615039.8	176.07	178.19
RE DISCCART	454082.2	4615014.1	175.94	178.19
RE DISCCART	454085.1	4614964.6	176.36	178.19
RE DISCCART	454088.0	4614915.0	176.78	176.78
RE DISCCART	454091.0	4614865.5	177.21	177.21
RE DISCCART	454093.9	4614816.0	177.63	177.63
RE DISCCART	454096.8	4614766.4	177.99	177.99
RE DISCCART	454099.7	4614716.9	178.2	178.2
RE DISCCART	454102.6	4614667.3	176.81	176.81
RE DISCCART	454105.5	4614617.8	176.3	178.19
RE DISCCART	454108.5	4614568.3	176.73	178.19
RE DISCCART	454111.4	4614518.7	177.14	177.14
RE DISCCART	454114.3	4614469.2	177.56	178.19
RE DISCCART	454107.8	4614425.2	176.75	176.75
RE DISCCART	454101.3	4614381.1	178.05	178.05
RE DISCCART	454094.7	4614337.1	177.87	177.87
RE DISCCART	454088.2	4614293.0	177.6	178.57
RE DISCCART	454081.7	4614249.0	176.52	178.19
RE DISCCART	454082.2	4614201.8	177.25	177.25
RE DISCCART	454082.8	4614154.7	177.44	177.44
RE DISCCART	454121.4	4614157.8	178.19	178.19
RE DISCCART	454160.0	4614160.9	178.19	178.19
RE DISCCART	454191.3	4614179.4	178.19	178.19
RE DISCCART	454222.7	4614198.0	178.19	178.19
RE DISCCART	454254.0	4614216.5	178.19	178.19
RE DISCCART	454253.2	4614226.3	178.19	178.19
RE DISCCART	454296.0	4614249.3	178.19	178.19
RE DISCCART	454338.8	4614272.3	178.19	178.19
RE DISCCART	454381.7	4614295.3	178.19	178.19
RE DISCCART	454424.5	4614318.3	178.19	178.19
RE DISCCART	454467.3	4614341.4	178.19	178.19
RE DISCCART	454510.2	4614364.4	178.19	178.19
RE DISCCART	454553.0	4614387.4	178.19	178.19
RE DISCCART	454595.8	4614410.4	178.19	178.19
RE DISCCART	454595.8	4614459.2	178.19	178.19
RE DISCCART	454595.8	4614507.9	178.19	178.19
RE DISCCART	454595.8	4614556.7	178.19	178.19
RE DISCCART	454595.8	4614605.5	178.19	178.19
RE DISCCART	454595.8	4614654.3	178.19	178.19
RE DISCCART	454595.8	4614703.0	178.19	178.19
RE DISCCART	454595.8	4614751.8	178.19	178.19
RE DISCCART	454595.8	4614800.6	178.19	178.19
RE DISCCART	454595.8	4614849.3	178.19	178.19
RE DISCCART	454595.8	4614898.1	178.19	178.19
RE DISCCART	454595.8	4614946.9	178.19	178.19
RE DISCCART	454595.8	4614995.6	178.19	178.19
RE DISCCART	454595.8	4615044.4	178.19	178.19

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RE DISCCART	454595.8	4615093.2	178.19	178.19
RE DISCCART	454595.8	4615142.0	178.19	178.19
RE DISCCART	454595.8	4615190.7	178.19	178.19
RE DISCCART	454595.8	4615239.5	178.19	178.19
RE DISCCART	454551.9	4615219.2	178.19	178.19
RE DISCCART	454508.0	4615199.0	178.19	178.19
RE DISCCART	454484.5	4615239.5	178.19	178.19
RE DISCCART	454461.1	4615279.9	178.19	178.19
RE DISCCART	454413.6	4615286.6	178.19	178.19
RE DISCCART	454376.8	4615266.9	178.19	178.19
RE DISCCART	454340.0	4615247.2	178.19	178.19
RE DISCCART	454303.1	4615227.5	178.19	178.19
RE DISCCART	454266.3	4615207.8	178.19	178.19
RE DISCCART	454229.5	4615188.1	178.19	178.19
RE DISCCART	454251.0	4615155.9	178.19	178.19
RE DISCCART	454209.3	4615133.3	178.19	178.19
RE DISCCART	454167.7	4615110.7	178.19	178.19
RE DISCCART	454126.1	4615088.0	178.19	178.19
RE DISCCART	452000.0	4612100.0	178.89	225.29
RE DISCCART	452100.0	4612100.0	179.74	225.23
RE DISCCART	452200.0	4612100.0	183.31	183.31
RE DISCCART	452300.0	4612100.0	175.19	186.65
RE DISCCART	452400.0	4612100.0	185.71	185.71
RE DISCCART	452500.0	4612100.0	181.89	181.89
RE DISCCART	452600.0	4612100.0	179.36	179.36
RE DISCCART	452700.0	4612100.0	178.43	178.43
RE DISCCART	452800.0	4612100.0	178.43	178.43
RE DISCCART	452900.0	4612100.0	178.42	178.42
RE DISCCART	453000.0	4612100.0	178.44	178.44
RE DISCCART	453100.0	4612100.0	178.62	178.62
RE DISCCART	453200.0	4612100.0	178.43	178.43
RE DISCCART	453300.0	4612100.0	178.39	178.39
RE DISCCART	453400.0	4612100.0	178.41	178.41
RE DISCCART	453500.0	4612100.0	178.39	178.39
RE DISCCART	453600.0	4612100.0	178.39	178.39
RE DISCCART	453700.0	4612100.0	178.39	178.39
RE DISCCART	453800.0	4612100.0	178.39	178.39
RE DISCCART	453900.0	4612100.0	178.53	178.53
RE DISCCART	454000.0	4612100.0	180.08	180.08
RE DISCCART	454100.0	4612100.0	179.12	179.12
RE DISCCART	454200.0	4612100.0	178.21	178.21
RE DISCCART	454300.0	4612100.0	178.19	178.19
RE DISCCART	454400.0	4612100.0	178.19	178.19
RE DISCCART	454500.0	4612100.0	178.19	178.19
RE DISCCART	454600.0	4612100.0	178.21	178.21
RE DISCCART	454700.0	4612100.0	181.09	181.09
RE DISCCART	454800.0	4612100.0	183.49	183.49
RE DISCCART	454900.0	4612100.0	178.44	178.44

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RE DISCCART	455000.0	4612100.0	178.19	178.19
RE DISCCART	455100.0	4612100.0	178.19	178.19
RE DISCCART	455200.0	4612100.0	178.22	178.22
RE DISCCART	455300.0	4612100.0	177.85	177.85
RE DISCCART	455400.0	4612100.0	177.59	177.59
RE DISCCART	455500.0	4612100.0	177.74	177.74
RE DISCCART	455600.0	4612100.0	178.34	178.34
RE DISCCART	455700.0	4612100.0	177.59	177.59
RE DISCCART	455800.0	4612100.0	177.6	177.6
RE DISCCART	455900.0	4612100.0	177.71	177.71
RE DISCCART	456000.0	4612100.0	178.24	178.24
RE DISCCART	456100.0	4612100.0	177.15	177.15
RE DISCCART	456200.0	4612100.0	177.15	177.15
RE DISCCART	456300.0	4612100.0	177.98	177.98
RE DISCCART	456400.0	4612100.0	178.57	178.57
RE DISCCART	456500.0	4612100.0	178.69	178.69
RE DISCCART	456600.0	4612100.0	178.42	178.42
RE DISCCART	452000.0	4612200.0	179.59	179.59
RE DISCCART	452100.0	4612200.0	180.09	180.09
RE DISCCART	452200.0	4612200.0	179.98	179.98
RE DISCCART	452300.0	4612200.0	175.2	185.77
RE DISCCART	452400.0	4612200.0	175.22	186.65
RE DISCCART	452500.0	4612200.0	178.35	178.35
RE DISCCART	452600.0	4612200.0	178.65	178.65
RE DISCCART	452700.0	4612200.0	178.69	178.69
RE DISCCART	452800.0	4612200.0	178.49	178.49
RE DISCCART	452900.0	4612200.0	178.39	178.39
RE DISCCART	453000.0	4612200.0	178.39	178.39
RE DISCCART	453100.0	4612200.0	178.39	178.39
RE DISCCART	453200.0	4612200.0	178.39	178.39
RE DISCCART	453300.0	4612200.0	178.39	178.39
RE DISCCART	453400.0	4612200.0	178.39	178.39
RE DISCCART	453500.0	4612200.0	178.4	178.4
RE DISCCART	453600.0	4612200.0	178.39	178.39
RE DISCCART	453700.0	4612200.0	178.39	178.39
RE DISCCART	453800.0	4612200.0	178.39	178.39
RE DISCCART	453900.0	4612200.0	178.69	178.69
RE DISCCART	454000.0	4612200.0	179.34	179.34
RE DISCCART	454100.0	4612200.0	179.1	179.1
RE DISCCART	454200.0	4612200.0	178.47	178.47
RE DISCCART	454300.0	4612200.0	178.19	178.19
RE DISCCART	454400.0	4612200.0	178.19	178.19
RE DISCCART	454500.0	4612200.0	178.19	178.19
RE DISCCART	454600.0	4612200.0	182.05	182.05
RE DISCCART	454700.0	4612200.0	183.94	183.94
RE DISCCART	454800.0	4612200.0	184.27	184.27
RE DISCCART	454900.0	4612200.0	180.97	180.97
RE DISCCART	455000.0	4612200.0	178.26	178.26

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RE DISCCART	455100.0	4612200.0	178.19	178.19
RE DISCCART	455200.0	4612200.0	177.87	177.87
RE DISCCART	455300.0	4612200.0	177.7	177.7
RE DISCCART	455400.0	4612200.0	177.59	177.59
RE DISCCART	455500.0	4612200.0	177.59	177.59
RE DISCCART	455600.0	4612200.0	177.59	177.59
RE DISCCART	455700.0	4612200.0	177.59	177.59
RE DISCCART	455800.0	4612200.0	177.59	177.59
RE DISCCART	455900.0	4612200.0	177.59	177.59
RE DISCCART	456000.0	4612200.0	177.59	177.59
RE DISCCART	456100.0	4612200.0	177.12	177.12
RE DISCCART	456200.0	4612200.0	177.38	177.38
RE DISCCART	456300.0	4612200.0	178.25	178.25
RE DISCCART	456400.0	4612200.0	178.12	178.12
RE DISCCART	456500.0	4612200.0	178.36	178.36
RE DISCCART	456600.0	4612200.0	178.45	178.45
RE DISCCART	452000.0	4612300.0	179.2	179.2
RE DISCCART	452100.0	4612300.0	179.09	179.09
RE DISCCART	452200.0	4612300.0	178.7	178.7
RE DISCCART	452300.0	4612300.0	175.19	175.19
RE DISCCART	452400.0	4612300.0	175.19	175.19
RE DISCCART	452500.0	4612300.0	175.98	175.98
RE DISCCART	452600.0	4612300.0	178.29	178.29
RE DISCCART	452700.0	4612300.0	178.63	178.63
RE DISCCART	452800.0	4612300.0	178.65	178.65
RE DISCCART	452900.0	4612300.0	178.42	178.42
RE DISCCART	453000.0	4612300.0	178.39	178.39
RE DISCCART	453100.0	4612300.0	178.39	178.39
RE DISCCART	453200.0	4612300.0	178.39	178.39
RE DISCCART	453300.0	4612300.0	178.39	178.39
RE DISCCART	453400.0	4612300.0	178.55	178.55
RE DISCCART	453500.0	4612300.0	178.49	178.49
RE DISCCART	453600.0	4612300.0	178.39	178.39
RE DISCCART	453700.0	4612300.0	178.39	178.39
RE DISCCART	453800.0	4612300.0	178.68	178.68
RE DISCCART	453900.0	4612300.0	178.86	178.86
RE DISCCART	454000.0	4612300.0	179.04	179.04
RE DISCCART	454100.0	4612300.0	178.92	178.92
RE DISCCART	454200.0	4612300.0	178.38	178.38
RE DISCCART	454300.0	4612300.0	178.19	178.19
RE DISCCART	454400.0	4612300.0	177.9	177.9
RE DISCCART	454500.0	4612300.0	178.19	178.19
RE DISCCART	454600.0	4612300.0	184.17	184.17
RE DISCCART	454700.0	4612300.0	182.35	182.35
RE DISCCART	454800.0	4612300.0	184.24	184.24
RE DISCCART	454900.0	4612300.0	182.36	182.36
RE DISCCART	455000.0	4612300.0	178.21	178.21
RE DISCCART	455100.0	4612300.0	178.19	178.19

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RE DISCCART	455200.0	4612300.0	177.59	177.59
RE DISCCART	455300.0	4612300.0	177.59	177.59
RE DISCCART	455400.0	4612300.0	177.59	177.59
RE DISCCART	455500.0	4612300.0	177.59	177.59
RE DISCCART	455600.0	4612300.0	177.59	177.59
RE DISCCART	455700.0	4612300.0	177.59	177.59
RE DISCCART	455800.0	4612300.0	177.59	177.59
RE DISCCART	455900.0	4612300.0	177.59	177.59
RE DISCCART	456000.0	4612300.0	177.55	177.55
RE DISCCART	456100.0	4612300.0	177.09	177.09
RE DISCCART	456200.0	4612300.0	177.09	177.09
RE DISCCART	456300.0	4612300.0	178.18	178.18
RE DISCCART	456400.0	4612300.0	182.91	182.91
RE DISCCART	456500.0	4612300.0	182.22	182.22
RE DISCCART	456600.0	4612300.0	177.65	177.65
RE DISCCART	452000.0	4612400.0	178.48	178.48
RE DISCCART	452100.0	4612400.0	177.93	177.93
RE DISCCART	452200.0	4612400.0	175.32	175.32
RE DISCCART	452300.0	4612400.0	175.19	175.19
RE DISCCART	452400.0	4612400.0	175.19	175.19
RE DISCCART	452500.0	4612400.0	175.19	175.19
RE DISCCART	452600.0	4612400.0	176.76	178.76
RE DISCCART	452700.0	4612400.0	178.33	178.33
RE DISCCART	452800.0	4612400.0	178.55	178.55
RE DISCCART	452900.0	4612400.0	178.65	178.65
RE DISCCART	453000.0	4612400.0	178.39	178.39
RE DISCCART	453100.0	4612400.0	178.39	178.39
RE DISCCART	453200.0	4612400.0	178.49	178.49
RE DISCCART	453300.0	4612400.0	178.66	178.66
RE DISCCART	453400.0	4612400.0	178.66	178.66
RE DISCCART	453500.0	4612400.0	178.69	178.69
RE DISCCART	453600.0	4612400.0	178.57	178.57
RE DISCCART	453700.0	4612400.0	178.53	178.53
RE DISCCART	453800.0	4612400.0	178.84	178.84
RE DISCCART	453900.0	4612400.0	178.89	178.89
RE DISCCART	454000.0	4612400.0	178.87	178.87
RE DISCCART	454100.0	4612400.0	178.84	178.84
RE DISCCART	454200.0	4612400.0	178.24	178.24
RE DISCCART	454300.0	4612400.0	178.19	178.19
RE DISCCART	454400.0	4612400.0	176.93	176.93
RE DISCCART	454500.0	4612400.0	178.19	178.19
RE DISCCART	454600.0	4612400.0	184.29	184.29
RE DISCCART	454700.0	4612400.0	182.42	182.42
RE DISCCART	454800.0	4612400.0	182.87	182.87
RE DISCCART	454900.0	4612400.0	182.44	182.44
RE DISCCART	455000.0	4612400.0	178.19	178.19
RE DISCCART	455100.0	4612400.0	178.2	178.2
RE DISCCART	455200.0	4612400.0	177.62	177.62

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RE DISCCART	455300.0	4612400.0	177.59	177.59
RE DISCCART	455400.0	4612400.0	177.59	177.59
RE DISCCART	455500.0	4612400.0	177.59	177.59
RE DISCCART	455600.0	4612400.0	177.59	177.59
RE DISCCART	455700.0	4612400.0	177.59	177.59
RE DISCCART	455800.0	4612400.0	178.04	178.04
RE DISCCART	455900.0	4612400.0	177.59	177.59
RE DISCCART	456000.0	4612400.0	177.59	177.59
RE DISCCART	456100.0	4612400.0	177.09	177.09
RE DISCCART	456200.0	4612400.0	177.09	177.09
RE DISCCART	456300.0	4612400.0	177.21	177.21
RE DISCCART	456400.0	4612400.0	179.08	179.08
RE DISCCART	456500.0	4612400.0	177.09	184.88
RE DISCCART	456600.0	4612400.0	177.09	177.09
RE DISCCART	452000.0	4612500.0	175.19	175.19
RE DISCCART	452100.0	4612500.0	175.19	175.19
RE DISCCART	452200.0	4612500.0	175.19	175.19
RE DISCCART	452300.0	4612500.0	175.19	175.19
RE DISCCART	452400.0	4612500.0	175.19	175.19
RE DISCCART	452500.0	4612500.0	175.19	175.19
RE DISCCART	452600.0	4612500.0	175.19	175.19
RE DISCCART	452700.0	4612500.0	175.19	175.19
RE DISCCART	452800.0	4612500.0	176.4	176.4
RE DISCCART	452900.0	4612500.0	178.81	178.81
RE DISCCART	453000.0	4612500.0	178.41	178.41
RE DISCCART	453100.0	4612500.0	178.43	178.43
RE DISCCART	453200.0	4612500.0	178.78	178.78
RE DISCCART	453300.0	4612500.0	178.88	178.88
RE DISCCART	453400.0	4612500.0	178.89	178.89
RE DISCCART	453500.0	4612500.0	178.88	178.88
RE DISCCART	453600.0	4612500.0	178.83	178.83
RE DISCCART	453700.0	4612500.0	178.86	178.86
RE DISCCART	453800.0	4612500.0	178.89	178.89
RE DISCCART	453900.0	4612500.0	178.79	178.79
RE DISCCART	454000.0	4612500.0	179.09	179.09
RE DISCCART	454100.0	4612500.0	179.7	179.7
RE DISCCART	454200.0	4612500.0	178.44	178.44
RE DISCCART	454300.0	4612500.0	178.19	178.19
RE DISCCART	454400.0	4612500.0	177.42	177.42
RE DISCCART	454500.0	4612500.0	178.2	178.2
RE DISCCART	454600.0	4612500.0	184.46	184.46
RE DISCCART	454700.0	4612500.0	182.06	182.06
RE DISCCART	454800.0	4612500.0	183.02	183.02
RE DISCCART	454900.0	4612500.0	182.32	182.32
RE DISCCART	455000.0	4612500.0	178.19	178.19
RE DISCCART	455100.0	4612500.0	178.29	178.29
RE DISCCART	455200.0	4612500.0	177.58	177.58
RE DISCCART	455300.0	4612500.0	178.1	178.1

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RE DISCCART	455400.0	4612500.0	177.59	177.59
RE DISCCART	455500.0	4612500.0	177.59	177.59
RE DISCCART	455600.0	4612500.0	177.59	177.59
RE DISCCART	455700.0	4612500.0	177.59	177.59
RE DISCCART	455800.0	4612500.0	177.62	177.62
RE DISCCART	455900.0	4612500.0	177.59	177.59
RE DISCCART	456000.0	4612500.0	177.59	177.59
RE DISCCART	456100.0	4612500.0	177.09	177.09
RE DISCCART	456200.0	4612500.0	177.09	177.09
RE DISCCART	456300.0	4612500.0	177.23	177.23
RE DISCCART	456400.0	4612500.0	178.44	178.44
RE DISCCART	456500.0	4612500.0	177.09	177.09
RE DISCCART	456600.0	4612500.0	177.09	177.09
RE DISCCART	452000.0	4612600.0	177.13	177.75
RE DISCCART	452100.0	4612600.0	177.92	177.92
RE DISCCART	452200.0	4612600.0	177.98	177.98
RE DISCCART	452300.0	4612600.0	178.16	178.16
RE DISCCART	452400.0	4612600.0	178.18	178.18
RE DISCCART	452500.0	4612600.0	178.22	178.22
RE DISCCART	452600.0	4612600.0	177.25	177.25
RE DISCCART	452700.0	4612600.0	175.19	175.19
RE DISCCART	452800.0	4612600.0	175.19	175.19
RE DISCCART	452900.0	4612600.0	178.65	178.65
RE DISCCART	453000.0	4612600.0	179.49	179.49
RE DISCCART	453100.0	4612600.0	179.28	179.28
RE DISCCART	453200.0	4612600.0	179.18	179.18
RE DISCCART	453300.0	4612600.0	179.19	179.19
RE DISCCART	453400.0	4612600.0	179.08	179.08
RE DISCCART	453500.0	4612600.0	179.09	179.09
RE DISCCART	453600.0	4612600.0	179.	179.
RE DISCCART	453700.0	4612600.0	179.09	179.09
RE DISCCART	453800.0	4612600.0	179.1	179.1
RE DISCCART	453900.0	4612600.0	178.79	178.79
RE DISCCART	454000.0	4612600.0	179.62	179.62
RE DISCCART	454100.0	4612600.0	178.55	178.55
RE DISCCART	454200.0	4612600.0	178.36	178.36
RE DISCCART	454300.0	4612600.0	178.19	178.19
RE DISCCART	454400.0	4612600.0	177.52	177.52
RE DISCCART	454500.0	4612600.0	178.16	178.16
RE DISCCART	454600.0	4612600.0	182.04	182.04
RE DISCCART	454700.0	4612600.0	182.15	193.99
RE DISCCART	454800.0	4612600.0	183.89	193.99
RE DISCCART	454900.0	4612600.0	183.7	183.7
RE DISCCART	455000.0	4612600.0	178.38	178.38
RE DISCCART	455100.0	4612600.0	178.19	178.19
RE DISCCART	455200.0	4612600.0	178.05	178.05
RE DISCCART	455300.0	4612600.0	177.6	177.6
RE DISCCART	455400.0	4612600.0	177.59	177.59

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RE DISCCART	455500.0	4612600.0	177.89	177.89
RE DISCCART	455600.0	4612600.0	178.04	178.04
RE DISCCART	455700.0	4612600.0	177.59	177.59
RE DISCCART	455800.0	4612600.0	177.59	177.59
RE DISCCART	455900.0	4612600.0	177.59	177.59
RE DISCCART	456000.0	4612600.0	177.59	177.59
RE DISCCART	456100.0	4612600.0	177.09	177.09
RE DISCCART	456200.0	4612600.0	177.09	177.09
RE DISCCART	456300.0	4612600.0	177.25	177.25
RE DISCCART	456400.0	4612600.0	177.62	177.62
RE DISCCART	456500.0	4612600.0	177.09	177.09
RE DISCCART	456600.0	4612600.0	177.09	177.09
RE DISCCART	452000.0	4612700.0	178.29	178.29
RE DISCCART	452100.0	4612700.0	178.29	178.29
RE DISCCART	452200.0	4612700.0	178.29	178.29
RE DISCCART	452300.0	4612700.0	178.45	178.45
RE DISCCART	452400.0	4612700.0	178.29	178.29
RE DISCCART	452500.0	4612700.0	178.29	178.29
RE DISCCART	452600.0	4612700.0	178.29	178.29
RE DISCCART	452700.0	4612700.0	178.3	178.3
RE DISCCART	452800.0	4612700.0	175.19	175.19
RE DISCCART	452900.0	4612700.0	175.9	175.9
RE DISCCART	453000.0	4612700.0	179.11	179.11
RE DISCCART	453100.0	4612700.0	179.52	179.52
RE DISCCART	453200.0	4612700.0	179.43	179.43
RE DISCCART	453300.0	4612700.0	179.39	179.39
RE DISCCART	453400.0	4612700.0	179.06	179.06
RE DISCCART	453500.0	4612700.0	178.99	178.99
RE DISCCART	453600.0	4612700.0	179.	179.
RE DISCCART	453700.0	4612700.0	179.26	179.26
RE DISCCART	453800.0	4612700.0	179.35	179.35
RE DISCCART	453900.0	4612700.0	179.43	179.43
RE DISCCART	454000.0	4612700.0	179.34	179.34
RE DISCCART	454100.0	4612700.0	177.85	177.85
RE DISCCART	454200.0	4612700.0	178.41	178.41
RE DISCCART	454300.0	4612700.0	177.68	177.68
RE DISCCART	454400.0	4612700.0	176.14	176.14
RE DISCCART	454500.0	4612700.0	178.19	192.89
RE DISCCART	454600.0	4612700.0	187.71	192.89
RE DISCCART	454700.0	4612700.0	192.76	192.76
RE DISCCART	454800.0	4612700.0	188.65	193.99
RE DISCCART	454900.0	4612700.0	184.34	185.68
RE DISCCART	455000.0	4612700.0	178.37	178.37
RE DISCCART	455100.0	4612700.0	178.19	178.19
RE DISCCART	455200.0	4612700.0	178.36	178.36
RE DISCCART	455300.0	4612700.0	177.63	177.63
RE DISCCART	455400.0	4612700.0	177.59	177.59
RE DISCCART	455500.0	4612700.0	177.59	177.59

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RE DISCCART	455600.0	4612700.0	177.59	177.59
RE DISCCART	455700.0	4612700.0	177.59	177.59
RE DISCCART	455800.0	4612700.0	177.59	177.59
RE DISCCART	455900.0	4612700.0	177.59	177.59
RE DISCCART	456000.0	4612700.0	177.59	177.59
RE DISCCART	456100.0	4612700.0	177.09	177.09
RE DISCCART	456200.0	4612700.0	177.09	177.09
RE DISCCART	456300.0	4612700.0	177.25	177.25
RE DISCCART	456400.0	4612700.0	177.49	177.49
RE DISCCART	456500.0	4612700.0	177.09	177.09
RE DISCCART	456600.0	4612700.0	177.09	177.09
RE DISCCART	452000.0	4612800.0	178.29	178.29
RE DISCCART	452100.0	4612800.0	178.29	178.29
RE DISCCART	452200.0	4612800.0	178.03	178.03
RE DISCCART	452300.0	4612800.0	178.29	178.29
RE DISCCART	452400.0	4612800.0	178.63	178.63
RE DISCCART	452500.0	4612800.0	178.45	178.45
RE DISCCART	452600.0	4612800.0	178.29	178.29
RE DISCCART	452700.0	4612800.0	178.86	178.86
RE DISCCART	452800.0	4612800.0	175.19	178.87
RE DISCCART	452900.0	4612800.0	175.19	175.19
RE DISCCART	453000.0	4612800.0	175.51	178.75
RE DISCCART	453100.0	4612800.0	179.66	179.66
RE DISCCART	453200.0	4612800.0	179.52	179.52
RE DISCCART	453300.0	4612800.0	179.24	179.24
RE DISCCART	453400.0	4612800.0	178.99	178.99
RE DISCCART	453500.0	4612800.0	178.99	178.99
RE DISCCART	453600.0	4612800.0	178.99	178.99
RE DISCCART	453700.0	4612800.0	179.25	179.25
RE DISCCART	453800.0	4612800.0	179.47	179.47
RE DISCCART	453900.0	4612800.0	179.75	179.75
RE DISCCART	454000.0	4612800.0	178.34	178.34
RE DISCCART	454100.0	4612800.0	177.22	177.22
RE DISCCART	454200.0	4612800.0	178.1	178.1
RE DISCCART	454300.0	4612800.0	177.88	177.88
RE DISCCART	454400.0	4612800.0	177.56	177.56
RE DISCCART	454500.0	4612800.0	178.14	178.14
RE DISCCART	454600.0	4612800.0	178.26	193.05
RE DISCCART	454700.0	4612800.0	178.63	193.99
RE DISCCART	454800.0	4612800.0	179.17	193.99
RE DISCCART	454900.0	4612800.0	179.2	179.2
RE DISCCART	455000.0	4612800.0	178.92	178.92
RE DISCCART	455100.0	4612800.0	178.19	178.19
RE DISCCART	455200.0	4612800.0	178.4	178.4
RE DISCCART	455300.0	4612800.0	177.59	177.59
RE DISCCART	455400.0	4612800.0	177.59	177.59
RE DISCCART	455500.0	4612800.0	177.59	177.59
RE DISCCART	455600.0	4612800.0	177.59	177.59

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RE DISCCART	455700.0	4612800.0	177.59	177.59
RE DISCCART	455800.0	4612800.0	177.59	177.59
RE DISCCART	455900.0	4612800.0	177.59	177.59
RE DISCCART	456000.0	4612800.0	177.59	177.59
RE DISCCART	456100.0	4612800.0	177.09	177.09
RE DISCCART	456200.0	4612800.0	177.09	177.09
RE DISCCART	456300.0	4612800.0	177.3	177.3
RE DISCCART	456400.0	4612800.0	177.76	177.76
RE DISCCART	456500.0	4612800.0	177.09	177.09
RE DISCCART	456600.0	4612800.0	177.09	177.09
RE DISCCART	452000.0	4612900.0	178.29	178.29
RE DISCCART	452100.0	4612900.0	178.29	178.29
RE DISCCART	452200.0	4612900.0	176.09	176.09
RE DISCCART	452300.0	4612900.0	177.89	177.89
RE DISCCART	452400.0	4612900.0	178.61	178.61
RE DISCCART	452500.0	4612900.0	178.95	178.95
RE DISCCART	452600.0	4612900.0	179.06	179.06
RE DISCCART	452700.0	4612900.0	179.65	179.65
RE DISCCART	452800.0	4612900.0	179.72	179.72
RE DISCCART	452900.0	4612900.0	175.47	179.73
RE DISCCART	453000.0	4612900.0	178.19	178.94
RE DISCCART	453100.0	4612900.0	175.19	175.19
RE DISCCART	453200.0	4612900.0	175.71	179.62
RE DISCCART	453300.0	4612900.0	179.48	179.48
RE DISCCART	453400.0	4612900.0	178.99	178.99
RE DISCCART	453500.0	4612900.0	178.99	178.99
RE DISCCART	453600.0	4612900.0	178.99	178.99
RE DISCCART	453700.0	4612900.0	179.22	179.22
RE DISCCART	453800.0	4612900.0	179.59	179.59
RE DISCCART	453900.0	4612900.0	178.72	178.72
RE DISCCART	454000.0	4612900.0	178.21	178.21
RE DISCCART	454100.0	4612900.0	177.14	177.14
RE DISCCART	454200.0	4612900.0	178.23	178.23
RE DISCCART	454300.0	4612900.0	178.19	178.19
RE DISCCART	454400.0	4612900.0	178.31	178.31
RE DISCCART	454500.0	4612900.0	178.21	178.21
RE DISCCART	454600.0	4612900.0	178.34	178.34
RE DISCCART	454700.0	4612900.0	179.22	179.22
RE DISCCART	454800.0	4612900.0	180.02	180.02
RE DISCCART	454900.0	4612900.0	180.38	180.38
RE DISCCART	455000.0	4612900.0	180.38	180.38
RE DISCCART	455100.0	4612900.0	178.19	178.19
RE DISCCART	455200.0	4612900.0	178.21	178.21
RE DISCCART	455300.0	4612900.0	177.59	177.59
RE DISCCART	455400.0	4612900.0	177.59	177.59
RE DISCCART	455500.0	4612900.0	177.59	177.59
RE DISCCART	455600.0	4612900.0	177.59	177.59
RE DISCCART	455700.0	4612900.0	177.59	177.59

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RE DISCCART	455800.0	4612900.0	177.59	177.59
RE DISCCART	455900.0	4612900.0	177.86	177.86
RE DISCCART	456000.0	4612900.0	177.59	177.59
RE DISCCART	456100.0	4612900.0	177.09	177.09
RE DISCCART	456200.0	4612900.0	177.09	177.09
RE DISCCART	456300.0	4612900.0	177.22	177.22
RE DISCCART	456400.0	4612900.0	177.09	177.09
RE DISCCART	456500.0	4612900.0	177.09	177.09
RE DISCCART	456600.0	4612900.0	177.09	177.09
RE DISCCART	452000.0	4613000.0	178.29	178.29
RE DISCCART	452100.0	4613000.0	178.29	178.29
RE DISCCART	452200.0	4613000.0	176.09	176.09
RE DISCCART	452300.0	4613000.0	177.92	177.92
RE DISCCART	452400.0	4613000.0	178.88	178.88
RE DISCCART	452500.0	4613000.0	179.22	179.22
RE DISCCART	452600.0	4613000.0	179.66	179.66
RE DISCCART	452700.0	4613000.0	179.69	179.69
RE DISCCART	452800.0	4613000.0	179.69	179.69
RE DISCCART	452900.0	4613000.0	179.69	179.69
RE DISCCART	453000.0	4613000.0	178.45	178.45
RE DISCCART	453100.0	4613000.0	176.93	176.93
RE DISCCART	453200.0	4613000.0	175.19	175.19
RE DISCCART	453300.0	4613000.0	176.43	179.6
RE DISCCART	453400.0	4613000.0	179.04	179.04
RE DISCCART	453500.0	4613000.0	178.99	178.99
RE DISCCART	453600.0	4613000.0	178.99	178.99
RE DISCCART	453700.0	4613000.0	179.33	179.33
RE DISCCART	453800.0	4613000.0	179.76	179.76
RE DISCCART	453900.0	4613000.0	178.57	178.57
RE DISCCART	454000.0	4613000.0	178.35	178.35
RE DISCCART	454100.0	4613000.0	177.29	177.29
RE DISCCART	454200.0	4613000.0	178.21	178.21
RE DISCCART	454300.0	4613000.0	178.37	178.37
RE DISCCART	454400.0	4613000.0	178.77	178.77
RE DISCCART	454500.0	4613000.0	178.2	178.2
RE DISCCART	454600.0	4613000.0	178.31	178.31
RE DISCCART	454700.0	4613000.0	179.07	179.07
RE DISCCART	454800.0	4613000.0	179.61	179.61
RE DISCCART	454900.0	4613000.0	179.86	179.86
RE DISCCART	455000.0	4613000.0	180.28	180.28
RE DISCCART	455100.0	4613000.0	178.19	178.19
RE DISCCART	455200.0	4613000.0	178.19	178.19
RE DISCCART	455300.0	4613000.0	178.45	178.45
RE DISCCART	455400.0	4613000.0	177.59	177.59
RE DISCCART	455500.0	4613000.0	177.59	177.59
RE DISCCART	455600.0	4613000.0	177.59	177.59
RE DISCCART	455700.0	4613000.0	177.59	177.59
RE DISCCART	455800.0	4613000.0	177.59	177.59

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RE DISCCART	455900.0	4613000.0	179.1	179.1
RE DISCCART	456000.0	4613000.0	177.59	177.59
RE DISCCART	456100.0	4613000.0	177.09	177.09
RE DISCCART	456200.0	4613000.0	177.09	177.09
RE DISCCART	456300.0	4613000.0	177.65	177.65
RE DISCCART	456400.0	4613000.0	177.83	177.83
RE DISCCART	456500.0	4613000.0	177.91	177.91
RE DISCCART	456600.0	4613000.0	177.9	177.9
RE DISCCART	452000.0	4613100.0	178.29	178.29
RE DISCCART	452100.0	4613100.0	178.29	178.29
RE DISCCART	452200.0	4613100.0	176.09	176.09
RE DISCCART	452300.0	4613100.0	178.55	178.55
RE DISCCART	452400.0	4613100.0	179.71	179.71
RE DISCCART	452500.0	4613100.0	179.47	179.47
RE DISCCART	452600.0	4613100.0	179.69	179.69
RE DISCCART	452700.0	4613100.0	179.69	179.69
RE DISCCART	452800.0	4613100.0	179.69	179.69
RE DISCCART	452900.0	4613100.0	179.66	179.66
RE DISCCART	453000.0	4613100.0	178.53	178.53
RE DISCCART	453100.0	4613100.0	179.09	179.09
RE DISCCART	453200.0	4613100.0	177.43	177.43
RE DISCCART	453300.0	4613100.0	175.19	175.19
RE DISCCART	453400.0	4613100.0	178.89	183.39
RE DISCCART	453500.0	4613100.0	178.99	178.99
RE DISCCART	453600.0	4613100.0	179.21	179.21
RE DISCCART	453700.0	4613100.0	179.55	179.55
RE DISCCART	453800.0	4613100.0	179.59	179.59
RE DISCCART	453900.0	4613100.0	178.96	178.96
RE DISCCART	454000.0	4613100.0	178.29	178.29
RE DISCCART	454100.0	4613100.0	178.57	178.57
RE DISCCART	454200.0	4613100.0	178.19	178.19
RE DISCCART	454300.0	4613100.0	178.24	189.25
RE DISCCART	454400.0	4613100.0	178.75	178.75
RE DISCCART	454500.0	4613100.0	178.2	178.2
RE DISCCART	454600.0	4613100.0	178.3	178.3
RE DISCCART	454700.0	4613100.0	178.96	178.96
RE DISCCART	454800.0	4613100.0	179.34	179.34
RE DISCCART	454900.0	4613100.0	179.71	179.71
RE DISCCART	455000.0	4613100.0	179.65	179.65
RE DISCCART	455100.0	4613100.0	178.19	178.19
RE DISCCART	455200.0	4613100.0	178.27	178.27
RE DISCCART	455300.0	4613100.0	178.46	178.46
RE DISCCART	455400.0	4613100.0	177.59	177.59
RE DISCCART	455500.0	4613100.0	177.59	177.59
RE DISCCART	455600.0	4613100.0	177.59	177.59
RE DISCCART	455700.0	4613100.0	179.44	179.44
RE DISCCART	455800.0	4613100.0	177.65	177.65
RE DISCCART	455900.0	4613100.0	177.64	177.64

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RE DISCCART	456000.0	4613100.0	177.59	177.59
RE DISCCART	456100.0	4613100.0	177.09	177.09
RE DISCCART	456200.0	4613100.0	177.09	177.09
RE DISCCART	456300.0	4613100.0	177.42	177.42
RE DISCCART	456400.0	4613100.0	177.09	177.09
RE DISCCART	456500.0	4613100.0	177.09	177.09
RE DISCCART	456600.0	4613100.0	177.09	177.09
RE DISCCART	452000.0	4613200.0	178.29	178.29
RE DISCCART	452100.0	4613200.0	178.29	178.29
RE DISCCART	452200.0	4613200.0	176.09	176.09
RE DISCCART	452300.0	4613200.0	178.5	178.5
RE DISCCART	452400.0	4613200.0	179.43	179.43
RE DISCCART	452500.0	4613200.0	179.7	179.7
RE DISCCART	452600.0	4613200.0	179.69	179.69
RE DISCCART	452700.0	4613200.0	179.69	179.69
RE DISCCART	452800.0	4613200.0	179.7	179.7
RE DISCCART	452900.0	4613200.0	179.23	179.23
RE DISCCART	453000.0	4613200.0	178.52	178.52
RE DISCCART	453100.0	4613200.0	179.09	179.09
RE DISCCART	453200.0	4613200.0	179.09	179.09
RE DISCCART	453300.0	4613200.0	177.61	179.09
RE DISCCART	453400.0	4613200.0	175.19	183.84
RE DISCCART	453500.0	4613200.0	175.31	183.84
RE DISCCART	453600.0	4613200.0	179.52	179.52
RE DISCCART	453700.0	4613200.0	178.94	178.94
RE DISCCART	453800.0	4613200.0	179.31	179.31
RE DISCCART	453900.0	4613200.0	178.82	178.82
RE DISCCART	454000.0	4613200.0	178.28	178.28
RE DISCCART	454100.0	4613200.0	179.66	179.66
RE DISCCART	454200.0	4613200.0	178.19	191.48
RE DISCCART	454300.0	4613200.0	186.33	191.48
RE DISCCART	454400.0	4613200.0	183.86	183.86
RE DISCCART	454500.0	4613200.0	178.41	178.41
RE DISCCART	454600.0	4613200.0	178.24	178.24
RE DISCCART	454700.0	4613200.0	179.33	179.33
RE DISCCART	454800.0	4613200.0	180.56	180.56
RE DISCCART	454900.0	4613200.0	179.49	179.49
RE DISCCART	455000.0	4613200.0	178.61	178.61
RE DISCCART	455100.0	4613200.0	178.2	178.2
RE DISCCART	455200.0	4613200.0	178.3	178.3
RE DISCCART	455300.0	4613200.0	178.58	178.58
RE DISCCART	455400.0	4613200.0	178.14	178.14
RE DISCCART	455500.0	4613200.0	177.59	177.59
RE DISCCART	455600.0	4613200.0	177.59	177.59
RE DISCCART	455700.0	4613200.0	177.59	177.59
RE DISCCART	455800.0	4613200.0	177.59	177.59
RE DISCCART	455900.0	4613200.0	177.59	177.59
RE DISCCART	456000.0	4613200.0	178.33	178.33

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RE DISCCART	456100.0	4613200.0	177.09	177.09
RE DISCCART	456200.0	4613200.0	177.09	177.09
RE DISCCART	456300.0	4613200.0	177.4	177.4
RE DISCCART	456400.0	4613200.0	177.09	177.09
RE DISCCART	456500.0	4613200.0	177.09	177.09
RE DISCCART	456600.0	4613200.0	177.09	177.09
RE DISCCART	452000.0	4613300.0	178.29	178.29
RE DISCCART	452100.0	4613300.0	178.29	178.29
RE DISCCART	452200.0	4613300.0	176.09	176.09
RE DISCCART	452300.0	4613300.0	178.57	178.57
RE DISCCART	452400.0	4613300.0	179.64	179.64
RE DISCCART	452500.0	4613300.0	179.72	179.72
RE DISCCART	452600.0	4613300.0	179.69	179.69
RE DISCCART	452700.0	4613300.0	179.68	179.68
RE DISCCART	452800.0	4613300.0	179.37	179.37
RE DISCCART	452900.0	4613300.0	178.92	178.92
RE DISCCART	453000.0	4613300.0	179.63	179.63
RE DISCCART	453100.0	4613300.0	179.09	179.09
RE DISCCART	453200.0	4613300.0	179.09	179.09
RE DISCCART	453300.0	4613300.0	179.09	179.09
RE DISCCART	453400.0	4613300.0	180.54	180.54
RE DISCCART	453500.0	4613300.0	176.44	182.98
RE DISCCART	453600.0	4613300.0	175.19	175.19
RE DISCCART	453700.0	4613300.0	178.89	178.89
RE DISCCART	453800.0	4613300.0	178.51	178.51
RE DISCCART	453900.0	4613300.0	178.67	178.67
RE DISCCART	454000.0	4613300.0	178.17	178.17
RE DISCCART	454100.0	4613300.0	178.61	178.61
RE DISCCART	454200.0	4613300.0	178.19	191.67
RE DISCCART	454300.0	4613300.0	191.01	191.01
RE DISCCART	454400.0	4613300.0	185.06	191.11
RE DISCCART	454500.0	4613300.0	178.57	178.57
RE DISCCART	454600.0	4613300.0	178.21	178.21
RE DISCCART	454700.0	4613300.0	179.35	179.35
RE DISCCART	454800.0	4613300.0	179.96	179.96
RE DISCCART	454900.0	4613300.0	178.57	178.57
RE DISCCART	455000.0	4613300.0	178.19	178.19
RE DISCCART	455100.0	4613300.0	178.19	178.19
RE DISCCART	455200.0	4613300.0	178.4	178.4
RE DISCCART	455300.0	4613300.0	178.62	178.62
RE DISCCART	455400.0	4613300.0	179.12	179.12
RE DISCCART	455500.0	4613300.0	177.59	177.59
RE DISCCART	455600.0	4613300.0	177.59	177.59
RE DISCCART	455700.0	4613300.0	177.59	177.59
RE DISCCART	455800.0	4613300.0	177.59	177.59
RE DISCCART	455900.0	4613300.0	177.59	177.59
RE DISCCART	456000.0	4613300.0	178.25	178.25
RE DISCCART	456100.0	4613300.0	177.09	177.09

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RE DISCCART	456200.0	4613300.0	177.09	177.09
RE DISCCART	456300.0	4613300.0	177.42	177.42
RE DISCCART	456400.0	4613300.0	177.09	177.09
RE DISCCART	456500.0	4613300.0	177.09	177.09
RE DISCCART	456600.0	4613300.0	177.09	181.45
RE DISCCART	452000.0	4613400.0	178.43	178.43
RE DISCCART	452100.0	4613400.0	178.29	178.29
RE DISCCART	452200.0	4613400.0	176.09	176.09
RE DISCCART	452300.0	4613400.0	178.61	178.61
RE DISCCART	452400.0	4613400.0	179.8	179.8
RE DISCCART	452500.0	4613400.0	179.79	179.79
RE DISCCART	452600.0	4613400.0	179.88	179.88
RE DISCCART	452700.0	4613400.0	179.69	179.69
RE DISCCART	452800.0	4613400.0	179.29	179.29
RE DISCCART	452900.0	4613400.0	179.31	179.31
RE DISCCART	453000.0	4613400.0	179.69	179.69
RE DISCCART	453100.0	4613400.0	179.41	179.41
RE DISCCART	453200.0	4613400.0	179.25	179.25
RE DISCCART	453300.0	4613400.0	179.22	179.22
RE DISCCART	453400.0	4613400.0	178.6	178.6
RE DISCCART	453500.0	4613400.0	178.32	178.32
RE DISCCART	453600.0	4613400.0	175.42	175.42
RE DISCCART	453700.0	4613400.0	175.19	175.19
RE DISCCART	453800.0	4613400.0	178.12	178.12
RE DISCCART	453900.0	4613400.0	178.19	178.19
RE DISCCART	454000.0	4613400.0	178.2	178.2
RE DISCCART	454100.0	4613400.0	178.27	178.27
RE DISCCART	454200.0	4613400.0	178.19	190.94
RE DISCCART	454300.0	4613400.0	183.33	191.37
RE DISCCART	454400.0	4613400.0	186.85	188.57
RE DISCCART	454500.0	4613400.0	178.75	189.85
RE DISCCART	454600.0	4613400.0	178.19	178.19
RE DISCCART	454700.0	4613400.0	178.19	178.19
RE DISCCART	454800.0	4613400.0	178.19	178.19
RE DISCCART	454900.0	4613400.0	178.19	178.19
RE DISCCART	455000.0	4613400.0	178.19	178.19
RE DISCCART	455100.0	4613400.0	178.19	178.19
RE DISCCART	455200.0	4613400.0	178.33	178.33
RE DISCCART	455300.0	4613400.0	178.84	178.84
RE DISCCART	455400.0	4613400.0	179.24	179.24
RE DISCCART	455500.0	4613400.0	177.59	177.59
RE DISCCART	455600.0	4613400.0	177.59	177.59
RE DISCCART	455700.0	4613400.0	177.59	177.59
RE DISCCART	455800.0	4613400.0	177.59	177.59
RE DISCCART	455900.0	4613400.0	177.59	177.59
RE DISCCART	456000.0	4613400.0	177.59	177.59
RE DISCCART	456100.0	4613400.0	177.12	177.12
RE DISCCART	456200.0	4613400.0	177.09	177.09

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RE DISCCART	456300.0	4613400.0	177.53	177.53
RE DISCCART	456400.0	4613400.0	177.09	177.09
RE DISCCART	456500.0	4613400.0	177.09	177.09
RE DISCCART	456600.0	4613400.0	179.72	181.72
RE DISCCART	452000.0	4613500.0	178.76	178.76
RE DISCCART	452100.0	4613500.0	178.29	178.29
RE DISCCART	452200.0	4613500.0	176.09	176.09
RE DISCCART	452300.0	4613500.0	178.51	178.51
RE DISCCART	452400.0	4613500.0	179.41	179.41
RE DISCCART	452500.0	4613500.0	179.7	179.7
RE DISCCART	452600.0	4613500.0	179.69	179.69
RE DISCCART	452700.0	4613500.0	179.61	179.61
RE DISCCART	452800.0	4613500.0	179.67	179.67
RE DISCCART	452900.0	4613500.0	179.68	179.68
RE DISCCART	453000.0	4613500.0	179.7	179.7
RE DISCCART	453100.0	4613500.0	179.39	179.39
RE DISCCART	453200.0	4613500.0	179.12	179.12
RE DISCCART	453300.0	4613500.0	178.77	178.77
RE DISCCART	453400.0	4613500.0	178.48	178.48
RE DISCCART	453500.0	4613500.0	178.29	178.29
RE DISCCART	453600.0	4613500.0	178.58	178.58
RE DISCCART	453700.0	4613500.0	176.66	178.79
RE DISCCART	453800.0	4613500.0	175.19	175.19
RE DISCCART	453900.0	4613500.0	175.19	179.57
RE DISCCART	454000.0	4613500.0	178.74	178.74
RE DISCCART	454100.0	4613500.0	178.19	178.19
RE DISCCART	454200.0	4613500.0	178.19	178.19
RE DISCCART	454300.0	4613500.0	179.63	190.05
RE DISCCART	454400.0	4613500.0	179.7	190.05
RE DISCCART	454500.0	4613500.0	178.75	189.85
RE DISCCART	454600.0	4613500.0	178.19	178.19
RE DISCCART	454700.0	4613500.0	178.19	178.19
RE DISCCART	454800.0	4613500.0	178.19	178.19
RE DISCCART	454900.0	4613500.0	178.19	178.19
RE DISCCART	455000.0	4613500.0	178.19	178.19
RE DISCCART	455100.0	4613500.0	178.19	178.19
RE DISCCART	455200.0	4613500.0	178.19	178.19
RE DISCCART	455300.0	4613500.0	178.7	178.7
RE DISCCART	455400.0	4613500.0	179.15	179.15
RE DISCCART	455500.0	4613500.0	177.59	177.59
RE DISCCART	455600.0	4613500.0	177.59	177.59
RE DISCCART	455700.0	4613500.0	177.59	177.59
RE DISCCART	455800.0	4613500.0	177.59	177.59
RE DISCCART	455900.0	4613500.0	177.59	177.59
RE DISCCART	456000.0	4613500.0	177.59	177.59
RE DISCCART	456100.0	4613500.0	177.27	177.27
RE DISCCART	456200.0	4613500.0	177.09	177.09
RE DISCCART	456300.0	4613500.0	177.21	177.21

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RE DISCCART	456400.0	4613500.0	177.09	177.09
RE DISCCART	456500.0	4613500.0	177.09	177.09
RE DISCCART	456600.0	4613500.0	182.03	182.03
RE DISCCART	452000.0	4613600.0	179.18	179.18
RE DISCCART	452100.0	4613600.0	178.34	178.34
RE DISCCART	452200.0	4613600.0	176.09	176.09
RE DISCCART	452300.0	4613600.0	176.35	176.35
RE DISCCART	452400.0	4613600.0	179.65	179.65
RE DISCCART	452500.0	4613600.0	179.75	179.75
RE DISCCART	452600.0	4613600.0	179.66	179.66
RE DISCCART	452700.0	4613600.0	179.94	179.94
RE DISCCART	452800.0	4613600.0	179.84	179.84
RE DISCCART	452900.0	4613600.0	179.69	179.69
RE DISCCART	453000.0	4613600.0	179.93	179.93
RE DISCCART	453100.0	4613600.0	179.42	179.42
RE DISCCART	453200.0	4613600.0	178.51	178.51
RE DISCCART	453300.0	4613600.0	178.49	178.49
RE DISCCART	453400.0	4613600.0	178.56	178.56
RE DISCCART	453500.0	4613600.0	178.29	178.29
RE DISCCART	453600.0	4613600.0	178.72	178.72
RE DISCCART	453700.0	4613600.0	178.61	178.61
RE DISCCART	453800.0	4613600.0	178.4	178.4
RE DISCCART	453900.0	4613600.0	175.19	175.19
RE DISCCART	454000.0	4613600.0	175.19	175.19
RE DISCCART	454100.0	4613600.0	178.19	178.19
RE DISCCART	454200.0	4613600.0	178.19	178.19
RE DISCCART	454300.0	4613600.0	178.34	178.34
RE DISCCART	454400.0	4613600.0	178.64	178.64
RE DISCCART	454500.0	4613600.0	178.2	178.2
RE DISCCART	454600.0	4613600.0	178.19	178.19
RE DISCCART	454700.0	4613600.0	178.19	178.19
RE DISCCART	454800.0	4613600.0	178.19	178.19
RE DISCCART	454900.0	4613600.0	178.19	178.19
RE DISCCART	455000.0	4613600.0	178.19	178.19
RE DISCCART	455100.0	4613600.0	178.19	178.19
RE DISCCART	455200.0	4613600.0	178.19	178.19
RE DISCCART	455300.0	4613600.0	178.39	178.39
RE DISCCART	455400.0	4613600.0	178.92	178.92
RE DISCCART	455500.0	4613600.0	179.5	179.5
RE DISCCART	455600.0	4613600.0	177.66	177.66
RE DISCCART	455700.0	4613600.0	177.59	177.59
RE DISCCART	455800.0	4613600.0	177.59	177.59
RE DISCCART	455900.0	4613600.0	177.59	177.59
RE DISCCART	456000.0	4613600.0	177.59	177.59
RE DISCCART	456100.0	4613600.0	177.12	177.12
RE DISCCART	456200.0	4613600.0	177.09	177.09
RE DISCCART	456300.0	4613600.0	177.1	177.1
RE DISCCART	456400.0	4613600.0	177.09	177.09

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RE DISCCART	456500.0	4613600.0	177.09	177.09
RE DISCCART	456600.0	4613600.0	179.31	182.02
RE DISCCART	452000.0	4613700.0	179.31	179.31
RE DISCCART	452100.0	4613700.0	179.45	179.45
RE DISCCART	452200.0	4613700.0	178.21	196.21
RE DISCCART	452300.0	4613700.0	178.54	195.02
RE DISCCART	452400.0	4613700.0	178.65	178.65
RE DISCCART	452500.0	4613700.0	179.75	179.75
RE DISCCART	452600.0	4613700.0	179.84	179.84
RE DISCCART	452700.0	4613700.0	180.18	180.18
RE DISCCART	452800.0	4613700.0	180.26	180.26
RE DISCCART	452900.0	4613700.0	180.07	180.07
RE DISCCART	453000.0	4613700.0	179.98	179.98
RE DISCCART	453100.0	4613700.0	179.36	179.36
RE DISCCART	453200.0	4613700.0	179.64	179.64
RE DISCCART	453300.0	4613700.0	179.68	179.68
RE DISCCART	453400.0	4613700.0	179.7	179.7
RE DISCCART	453500.0	4613700.0	179.03	179.03
RE DISCCART	453600.0	4613700.0	179.03	179.03
RE DISCCART	453700.0	4613700.0	178.77	178.77
RE DISCCART	453800.0	4613700.0	179.75	179.75
RE DISCCART	453900.0	4613700.0	178.59	178.59
RE DISCCART	454000.0	4613700.0	175.19	175.19
RE DISCCART	454100.0	4613700.0	178.19	178.19
RE DISCCART	454200.0	4613700.0	178.19	178.19
RE DISCCART	454300.0	4613700.0	178.19	178.19
RE DISCCART	454400.0	4613700.0	178.19	178.19
RE DISCCART	454500.0	4613700.0	178.19	178.19
RE DISCCART	454600.0	4613700.0	178.19	178.19
RE DISCCART	454700.0	4613700.0	178.19	178.19
RE DISCCART	454800.0	4613700.0	178.19	178.19
RE DISCCART	454900.0	4613700.0	178.19	178.19
RE DISCCART	455000.0	4613700.0	178.19	178.19
RE DISCCART	455100.0	4613700.0	178.19	178.19
RE DISCCART	455200.0	4613700.0	178.19	178.19
RE DISCCART	455300.0	4613700.0	178.19	178.19
RE DISCCART	455400.0	4613700.0	178.44	178.44
RE DISCCART	455500.0	4613700.0	178.92	178.92
RE DISCCART	455600.0	4613700.0	179.76	179.76
RE DISCCART	455700.0	4613700.0	177.59	177.59
RE DISCCART	455800.0	4613700.0	177.59	177.59
RE DISCCART	455900.0	4613700.0	177.59	177.59
RE DISCCART	456000.0	4613700.0	177.59	177.59
RE DISCCART	456100.0	4613700.0	177.13	177.13
RE DISCCART	456200.0	4613700.0	177.47	177.47
RE DISCCART	456300.0	4613700.0	178.48	178.48
RE DISCCART	456400.0	4613700.0	178.39	178.39
RE DISCCART	456500.0	4613700.0	177.26	177.26

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RE DISCCART	456600.0	4613700.0	178.33	178.33
RE DISCCART	452000.0	4613800.0	179.24	179.24
RE DISCCART	452100.0	4613800.0	179.59	197.62
RE DISCCART	452200.0	4613800.0	192.68	193.46
RE DISCCART	452300.0	4613800.0	182.29	197.62
RE DISCCART	452400.0	4613800.0	178.75	196.34
RE DISCCART	452500.0	4613800.0	179.83	179.83
RE DISCCART	452600.0	4613800.0	180.3	180.3
RE DISCCART	452700.0	4613800.0	180.72	180.72
RE DISCCART	452800.0	4613800.0	180.77	180.77
RE DISCCART	452900.0	4613800.0	180.42	180.42
RE DISCCART	453000.0	4613800.0	180.01	180.01
RE DISCCART	453100.0	4613800.0	179.43	179.43
RE DISCCART	453200.0	4613800.0	179.38	179.38
RE DISCCART	453300.0	4613800.0	179.37	179.37
RE DISCCART	453400.0	4613800.0	178.75	178.75
RE DISCCART	453500.0	4613800.0	179.08	179.08
RE DISCCART	453600.0	4613800.0	179.26	179.26
RE DISCCART	453700.0	4613800.0	179.01	179.01
RE DISCCART	453800.0	4613800.0	179.73	179.73
RE DISCCART	453900.0	4613800.0	180.57	180.57
RE DISCCART	454000.0	4613800.0	175.19	180.07
RE DISCCART	454100.0	4613800.0	175.19	179.63
RE DISCCART	454200.0	4613800.0	177.78	177.78
RE DISCCART	454300.0	4613800.0	178.19	178.19
RE DISCCART	454400.0	4613800.0	178.19	178.19
RE DISCCART	454500.0	4613800.0	178.19	178.19
RE DISCCART	454600.0	4613800.0	178.19	178.19
RE DISCCART	454700.0	4613800.0	178.19	178.19
RE DISCCART	454800.0	4613800.0	178.19	178.19
RE DISCCART	454900.0	4613800.0	178.19	178.19
RE DISCCART	455000.0	4613800.0	178.19	178.19
RE DISCCART	455100.0	4613800.0	178.19	178.19
RE DISCCART	455200.0	4613800.0	178.19	178.19
RE DISCCART	455300.0	4613800.0	178.19	178.19
RE DISCCART	455400.0	4613800.0	178.19	178.19
RE DISCCART	455500.0	4613800.0	178.75	178.75
RE DISCCART	455600.0	4613800.0	180.1	180.1
RE DISCCART	455700.0	4613800.0	178.83	180.77
RE DISCCART	455800.0	4613800.0	179.49	181.08
RE DISCCART	455900.0	4613800.0	179.64	181.13
RE DISCCART	456000.0	4613800.0	178.72	178.72
RE DISCCART	456100.0	4613800.0	177.15	177.15
RE DISCCART	456200.0	4613800.0	178.34	178.34
RE DISCCART	456300.0	4613800.0	178.72	178.72
RE DISCCART	456400.0	4613800.0	177.97	177.97
RE DISCCART	456500.0	4613800.0	177.89	181.4
RE DISCCART	456600.0	4613800.0	178.99	178.99

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RE DISCCART	452000.0	4613900.0	179.25	179.25
RE DISCCART	452100.0	4613900.0	179.59	198.85
RE DISCCART	452200.0	4613900.0	196.69	196.69
RE DISCCART	452300.0	4613900.0	191.98	196.34
RE DISCCART	452400.0	4613900.0	179.12	198.85
RE DISCCART	452500.0	4613900.0	179.92	179.92
RE DISCCART	452600.0	4613900.0	180.6	180.6
RE DISCCART	452700.0	4613900.0	183.05	183.05
RE DISCCART	452800.0	4613900.0	181.06	181.06
RE DISCCART	452900.0	4613900.0	180.64	180.64
RE DISCCART	453000.0	4613900.0	179.97	179.97
RE DISCCART	453100.0	4613900.0	178.84	178.84
RE DISCCART	453200.0	4613900.0	179.13	179.13
RE DISCCART	453300.0	4613900.0	179.09	179.09
RE DISCCART	453400.0	4613900.0	178.54	178.54
RE DISCCART	453500.0	4613900.0	179.84	179.84
RE DISCCART	453600.0	4613900.0	179.39	179.39
RE DISCCART	453700.0	4613900.0	179.23	179.23
RE DISCCART	453800.0	4613900.0	179.7	179.7
RE DISCCART	453900.0	4613900.0	179.51	179.51
RE DISCCART	454000.0	4613900.0	175.19	179.27
RE DISCCART	454100.0	4613900.0	175.19	175.19
RE DISCCART	454200.0	4613900.0	175.19	175.19
RE DISCCART	454300.0	4613900.0	178.19	178.19
RE DISCCART	454400.0	4613900.0	178.19	178.19
RE DISCCART	454500.0	4613900.0	178.19	178.19
RE DISCCART	454600.0	4613900.0	178.19	178.19
RE DISCCART	454700.0	4613900.0	178.19	178.19
RE DISCCART	454800.0	4613900.0	178.19	178.19
RE DISCCART	454900.0	4613900.0	178.19	178.19
RE DISCCART	455000.0	4613900.0	178.19	178.19
RE DISCCART	455100.0	4613900.0	178.19	178.19
RE DISCCART	455200.0	4613900.0	178.19	178.19
RE DISCCART	455300.0	4613900.0	178.19	178.19
RE DISCCART	455400.0	4613900.0	178.2	178.2
RE DISCCART	455500.0	4613900.0	178.38	178.38
RE DISCCART	455600.0	4613900.0	179.68	179.68
RE DISCCART	455700.0	4613900.0	181.27	181.27
RE DISCCART	455800.0	4613900.0	181.27	181.27
RE DISCCART	455900.0	4613900.0	181.27	181.27
RE DISCCART	456000.0	4613900.0	181.27	181.27
RE DISCCART	456100.0	4613900.0	180.2	180.2
RE DISCCART	456200.0	4613900.0	178.78	178.78
RE DISCCART	456300.0	4613900.0	178.37	178.37
RE DISCCART	456400.0	4613900.0	177.99	177.99
RE DISCCART	456500.0	4613900.0	181.15	181.15
RE DISCCART	456600.0	4613900.0	178.66	178.66
RE DISCCART	452000.0	4614000.0	179.2	179.2

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RE DISCCART	452100.0	4614000.0	179.63	198.85
RE DISCCART	452200.0	4614000.0	196.94	196.94
RE DISCCART	452300.0	4614000.0	194.23	198.85
RE DISCCART	452400.0	4614000.0	179.09	198.85
RE DISCCART	452500.0	4614000.0	180.1	180.1
RE DISCCART	452600.0	4614000.0	180.84	180.84
RE DISCCART	452700.0	4614000.0	182.49	182.49
RE DISCCART	452800.0	4614000.0	181.47	181.47
RE DISCCART	452900.0	4614000.0	180.99	180.99
RE DISCCART	453000.0	4614000.0	180.16	180.16
RE DISCCART	453100.0	4614000.0	178.4	178.4
RE DISCCART	453200.0	4614000.0	179.05	179.05
RE DISCCART	453300.0	4614000.0	178.92	178.92
RE DISCCART	453400.0	4614000.0	178.47	178.47
RE DISCCART	453500.0	4614000.0	179.84	179.84
RE DISCCART	453600.0	4614000.0	179.44	179.44
RE DISCCART	453700.0	4614000.0	179.24	179.24
RE DISCCART	453800.0	4614000.0	179.72	179.72
RE DISCCART	453900.0	4614000.0	179.09	179.09
RE DISCCART	454000.0	4614000.0	175.29	179.09
RE DISCCART	454100.0	4614000.0	175.33	175.33
RE DISCCART	454200.0	4614000.0	178.28	178.28
RE DISCCART	454300.0	4614000.0	178.19	178.19
RE DISCCART	454400.0	4614000.0	178.19	178.19
RE DISCCART	454500.0	4614000.0	178.19	178.19
RE DISCCART	454600.0	4614000.0	178.19	178.19
RE DISCCART	454700.0	4614000.0	178.19	178.19
RE DISCCART	454800.0	4614000.0	178.19	178.19
RE DISCCART	454900.0	4614000.0	178.19	178.19
RE DISCCART	455000.0	4614000.0	178.19	178.19
RE DISCCART	455100.0	4614000.0	178.19	178.19
RE DISCCART	455200.0	4614000.0	178.19	178.19
RE DISCCART	455300.0	4614000.0	178.19	178.19
RE DISCCART	455400.0	4614000.0	178.19	178.19
RE DISCCART	455500.0	4614000.0	178.89	178.89
RE DISCCART	455600.0	4614000.0	180.23	180.23
RE DISCCART	455700.0	4614000.0	181.25	181.25
RE DISCCART	455800.0	4614000.0	181.47	181.47
RE DISCCART	455900.0	4614000.0	181.39	181.39
RE DISCCART	456000.0	4614000.0	181.38	181.38
RE DISCCART	456100.0	4614000.0	181.32	181.32
RE DISCCART	456200.0	4614000.0	180.69	180.69
RE DISCCART	456300.0	4614000.0	178.43	178.43
RE DISCCART	456400.0	4614000.0	178.32	178.32
RE DISCCART	456500.0	4614000.0	182.4	182.4
RE DISCCART	456600.0	4614000.0	178.72	178.72
RE DISCCART	452000.0	4614100.0	179.07	179.07
RE DISCCART	452100.0	4614100.0	179.58	198.84

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RE DISCCART	452200.0	4614100.0	197.09	197.09
RE DISCCART	452300.0	4614100.0	195.23	198.22
RE DISCCART	452400.0	4614100.0	179.09	198.85
RE DISCCART	452500.0	4614100.0	180.38	180.38
RE DISCCART	452600.0	4614100.0	181.7	181.7
RE DISCCART	452700.0	4614100.0	180.89	180.89
RE DISCCART	452800.0	4614100.0	180.99	180.99
RE DISCCART	452900.0	4614100.0	182.92	182.92
RE DISCCART	453000.0	4614100.0	180.41	180.41
RE DISCCART	453100.0	4614100.0	178.33	178.33
RE DISCCART	453200.0	4614100.0	178.88	178.88
RE DISCCART	453300.0	4614100.0	178.83	178.83
RE DISCCART	453400.0	4614100.0	178.47	178.47
RE DISCCART	453500.0	4614100.0	179.73	179.73
RE DISCCART	453600.0	4614100.0	179.39	179.39
RE DISCCART	453700.0	4614100.0	179.04	179.04
RE DISCCART	453800.0	4614100.0	179.72	179.72
RE DISCCART	453900.0	4614100.0	179.09	179.09
RE DISCCART	454000.0	4614100.0	175.19	175.19
RE DISCCART	454100.0	4614100.0	178.19	178.19
RE DISCCART	454200.0	4614100.0	178.19	178.19
RE DISCCART	454300.0	4614100.0	178.19	178.19
RE DISCCART	454400.0	4614100.0	178.19	178.19
RE DISCCART	454500.0	4614100.0	178.19	178.19
RE DISCCART	454600.0	4614100.0	178.19	178.19
RE DISCCART	454700.0	4614100.0	178.19	178.19
RE DISCCART	454800.0	4614100.0	178.19	178.19
RE DISCCART	454900.0	4614100.0	178.19	178.19
RE DISCCART	455000.0	4614100.0	178.19	178.19
RE DISCCART	455100.0	4614100.0	178.19	178.19
RE DISCCART	455200.0	4614100.0	178.19	178.19
RE DISCCART	455300.0	4614100.0	178.19	178.19
RE DISCCART	455400.0	4614100.0	178.19	178.19
RE DISCCART	455500.0	4614100.0	178.19	178.19
RE DISCCART	455600.0	4614100.0	179.6	179.6
RE DISCCART	455700.0	4614100.0	180.56	180.56
RE DISCCART	455800.0	4614100.0	181.09	181.09
RE DISCCART	455900.0	4614100.0	181.05	181.05
RE DISCCART	456000.0	4614100.0	181.04	181.04
RE DISCCART	456100.0	4614100.0	181.04	181.04
RE DISCCART	456200.0	4614100.0	180.17	180.17
RE DISCCART	456300.0	4614100.0	178.77	178.77
RE DISCCART	456400.0	4614100.0	178.5	178.5
RE DISCCART	456500.0	4614100.0	184.04	184.04
RE DISCCART	456600.0	4614100.0	179.04	179.04
RE DISCCART	452000.0	4614200.0	178.93	178.93
RE DISCCART	452100.0	4614200.0	179.54	198.06
RE DISCCART	452200.0	4614200.0	197.13	197.13

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RE DISCCART	452300.0	4614200.0	190.9	197.91
RE DISCCART	452400.0	4614200.0	179.36	198.45
RE DISCCART	452500.0	4614200.0	183.24	183.24
RE DISCCART	452600.0	4614200.0	181.18	181.18
RE DISCCART	452700.0	4614200.0	180.83	180.83
RE DISCCART	452800.0	4614200.0	180.61	180.61
RE DISCCART	452900.0	4614200.0	180.79	180.79
RE DISCCART	453000.0	4614200.0	180.07	180.07
RE DISCCART	453100.0	4614200.0	178.31	178.31
RE DISCCART	453200.0	4614200.0	178.73	178.73
RE DISCCART	453300.0	4614200.0	178.8	178.8
RE DISCCART	453400.0	4614200.0	178.39	178.39
RE DISCCART	453500.0	4614200.0	179.6	179.6
RE DISCCART	453600.0	4614200.0	178.69	178.69
RE DISCCART	453700.0	4614200.0	179.02	179.02
RE DISCCART	453800.0	4614200.0	179.71	179.71
RE DISCCART	453900.0	4614200.0	179.09	179.09
RE DISCCART	454000.0	4614200.0	175.42	178.
RE DISCCART	454300.0	4614200.0	178.19	178.19
RE DISCCART	454400.0	4614200.0	178.19	178.19
RE DISCCART	454500.0	4614200.0	178.19	178.19
RE DISCCART	454600.0	4614200.0	178.19	178.19
RE DISCCART	454700.0	4614200.0	178.19	178.19
RE DISCCART	454800.0	4614200.0	178.19	178.19
RE DISCCART	454900.0	4614200.0	178.19	178.19
RE DISCCART	455000.0	4614200.0	178.19	178.19
RE DISCCART	455100.0	4614200.0	178.19	178.19
RE DISCCART	455200.0	4614200.0	178.19	178.19
RE DISCCART	455300.0	4614200.0	178.19	178.19
RE DISCCART	455400.0	4614200.0	178.19	178.19
RE DISCCART	455500.0	4614200.0	178.19	178.19
RE DISCCART	455600.0	4614200.0	178.63	178.63
RE DISCCART	455700.0	4614200.0	179.95	179.95
RE DISCCART	455800.0	4614200.0	180.45	180.45
RE DISCCART	455900.0	4614200.0	180.74	180.74
RE DISCCART	456000.0	4614200.0	180.81	180.81
RE DISCCART	456100.0	4614200.0	180.77	180.77
RE DISCCART	456200.0	4614200.0	179.77	179.77
RE DISCCART	456300.0	4614200.0	179.16	179.16
RE DISCCART	456400.0	4614200.0	178.38	178.38
RE DISCCART	456500.0	4614200.0	185.68	185.68
RE DISCCART	456600.0	4614200.0	178.92	178.92
RE DISCCART	452000.0	4614300.0	178.79	178.79
RE DISCCART	452100.0	4614300.0	179.54	198.44
RE DISCCART	452200.0	4614300.0	196.96	196.96
RE DISCCART	452300.0	4614300.0	195.32	197.99
RE DISCCART	452400.0	4614300.0	179.88	207.67
RE DISCCART	452500.0	4614300.0	180.64	180.64

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RE DISCCART	452600.0	4614300.0	181.19	181.19
RE DISCCART	452700.0	4614300.0	180.86	180.86
RE DISCCART	452800.0	4614300.0	180.67	180.67
RE DISCCART	452900.0	4614300.0	180.33	180.33
RE DISCCART	453000.0	4614300.0	179.92	179.92
RE DISCCART	453100.0	4614300.0	178.28	178.28
RE DISCCART	453200.0	4614300.0	178.62	178.62
RE DISCCART	453300.0	4614300.0	178.72	178.72
RE DISCCART	453400.0	4614300.0	178.4	178.4
RE DISCCART	453500.0	4614300.0	179.56	179.56
RE DISCCART	453600.0	4614300.0	178.57	178.57
RE DISCCART	453700.0	4614300.0	179.36	179.36
RE DISCCART	453800.0	4614300.0	179.09	179.09
RE DISCCART	453900.0	4614300.0	179.09	179.09
RE DISCCART	454000.0	4614300.0	175.57	179.43
RE DISCCART	454400.0	4614300.0	178.19	178.19
RE DISCCART	454500.0	4614300.0	178.19	178.19
RE DISCCART	454600.0	4614300.0	178.19	178.19
RE DISCCART	454700.0	4614300.0	178.19	178.19
RE DISCCART	454800.0	4614300.0	178.19	178.19
RE DISCCART	454900.0	4614300.0	178.19	178.19
RE DISCCART	455000.0	4614300.0	178.19	178.19
RE DISCCART	455100.0	4614300.0	178.19	178.19
RE DISCCART	455200.0	4614300.0	178.19	178.19
RE DISCCART	455300.0	4614300.0	178.19	178.19
RE DISCCART	455400.0	4614300.0	178.19	178.19
RE DISCCART	455500.0	4614300.0	178.19	178.19
RE DISCCART	455600.0	4614300.0	178.2	178.2
RE DISCCART	455700.0	4614300.0	179.16	179.16
RE DISCCART	455800.0	4614300.0	180.06	180.06
RE DISCCART	455900.0	4614300.0	180.42	180.42
RE DISCCART	456000.0	4614300.0	180.52	180.52
RE DISCCART	456100.0	4614300.0	180.76	180.76
RE DISCCART	456200.0	4614300.0	180.53	180.53
RE DISCCART	456300.0	4614300.0	179.71	179.71
RE DISCCART	456400.0	4614300.0	178.79	178.79
RE DISCCART	456500.0	4614300.0	186.67	186.67
RE DISCCART	456600.0	4614300.0	178.51	178.51
RE DISCCART	452000.0	4614400.0	178.88	178.88
RE DISCCART	452100.0	4614400.0	179.64	209.4
RE DISCCART	452200.0	4614400.0	189.91	197.97
RE DISCCART	452300.0	4614400.0	182.14	209.86
RE DISCCART	452400.0	4614400.0	180.84	209.89
RE DISCCART	452500.0	4614400.0	181.52	209.73
RE DISCCART	452600.0	4614400.0	182.58	209.73
RE DISCCART	452700.0	4614400.0	183.21	207.94
RE DISCCART	452800.0	4614400.0	180.86	180.86
RE DISCCART	452900.0	4614400.0	180.43	180.43

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RE DISCCART	453000.0	4614400.0	179.93	179.93
RE DISCCART	453100.0	4614400.0	178.28	178.28
RE DISCCART	453200.0	4614400.0	178.57	178.57
RE DISCCART	453300.0	4614400.0	178.59	178.59
RE DISCCART	453400.0	4614400.0	178.36	178.36
RE DISCCART	453500.0	4614400.0	179.53	179.53
RE DISCCART	453600.0	4614400.0	178.42	178.42
RE DISCCART	453700.0	4614400.0	178.26	178.26
RE DISCCART	453800.0	4614400.0	179.25	179.25
RE DISCCART	453900.0	4614400.0	179.09	179.09
RE DISCCART	454000.0	4614400.0	175.74	179.36
RE DISCCART	454100.0	4614400.0	176.57	176.57
RE DISCCART	454600.0	4614400.0	178.19	178.19
RE DISCCART	454700.0	4614400.0	178.19	178.19
RE DISCCART	454800.0	4614400.0	178.19	178.19
RE DISCCART	454900.0	4614400.0	178.19	178.19
RE DISCCART	455000.0	4614400.0	178.19	178.19
RE DISCCART	455100.0	4614400.0	178.19	178.19
RE DISCCART	455200.0	4614400.0	178.19	178.19
RE DISCCART	455300.0	4614400.0	178.19	178.19
RE DISCCART	455400.0	4614400.0	178.19	178.19
RE DISCCART	455500.0	4614400.0	178.19	178.19
RE DISCCART	455600.0	4614400.0	178.19	178.19
RE DISCCART	455700.0	4614400.0	178.49	178.49
RE DISCCART	455800.0	4614400.0	179.75	179.75
RE DISCCART	455900.0	4614400.0	179.98	179.98
RE DISCCART	456000.0	4614400.0	180.08	180.08
RE DISCCART	456100.0	4614400.0	180.33	180.33
RE DISCCART	456200.0	4614400.0	180.14	180.14
RE DISCCART	456300.0	4614400.0	180.1	180.1
RE DISCCART	456400.0	4614400.0	179.18	179.18
RE DISCCART	456500.0	4614400.0	183.97	187.29
RE DISCCART	456600.0	4614400.0	178.1	187.29
RE DISCCART	452000.0	4614500.0	178.92	209.34
RE DISCCART	452100.0	4614500.0	179.63	209.73
RE DISCCART	452200.0	4614500.0	181.94	209.9
RE DISCCART	452300.0	4614500.0	184.57	209.9
RE DISCCART	452400.0	4614500.0	185.99	209.9
RE DISCCART	452500.0	4614500.0	186.21	209.89
RE DISCCART	452600.0	4614500.0	187.94	209.73
RE DISCCART	452700.0	4614500.0	183.09	209.73
RE DISCCART	452800.0	4614500.0	181.1	207.94
RE DISCCART	452900.0	4614500.0	180.76	180.76
RE DISCCART	453000.0	4614500.0	179.97	179.97
RE DISCCART	453100.0	4614500.0	177.09	177.09
RE DISCCART	453200.0	4614500.0	178.51	178.51
RE DISCCART	453300.0	4614500.0	178.6	178.6
RE DISCCART	453400.0	4614500.0	178.4	178.4

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RE DISCCART 453500.0 4614500.0 178.3 178.3
RE DISCCART 453600.0 4614500.0 178.45 178.45
RE DISCCART 453700.0 4614500.0 178.29 178.29
RE DISCCART 453800.0 4614500.0 178.72 178.72
RE DISCCART 453900.0 4614500.0 179. 179.
RE DISCCART 454000.0 4614500.0 175.88 179.42
RE DISCCART 454100.0 4614500.0 175.68 178.19
RE DISCCART 454600.0 4614500.0 178.19 178.19
RE DISCCART 454700.0 4614500.0 178.19 178.19
RE DISCCART 454800.0 4614500.0 178.19 178.19
RE DISCCART 454900.0 4614500.0 178.19 178.19
RE DISCCART 455000.0 4614500.0 178.19 178.19
RE DISCCART 455100.0 4614500.0 178.19 178.19
RE DISCCART 455200.0 4614500.0 178.19 178.19
RE DISCCART 455300.0 4614500.0 178.19 178.19
RE DISCCART 455400.0 4614500.0 178.19 178.19
RE DISCCART 455500.0 4614500.0 178.19 178.19
RE DISCCART 455600.0 4614500.0 178.19 178.19
RE DISCCART 455700.0 4614500.0 178.19 178.19
RE DISCCART 455800.0 4614500.0 178.31 178.31
RE DISCCART 455900.0 4614500.0 178.95 178.95
RE DISCCART 456000.0 4614500.0 178.19 178.19
RE DISCCART 456100.0 4614500.0 177.84 177.84
RE DISCCART 456200.0 4614500.0 177.96 177.96
RE DISCCART 456300.0 4614500.0 177.94 177.94
RE DISCCART 456400.0 4614500.0 179.71 179.71
RE DISCCART 456500.0 4614500.0 178.56 186.45
RE DISCCART 456600.0 4614500.0 178.36 178.36
RE DISCCART 452000.0 4614600.0 178.9 209.55
RE DISCCART 452100.0 4614600.0 180.26 209.9
RE DISCCART 452200.0 4614600.0 203.8 208.92
RE DISCCART 452300.0 4614600.0 208.72 208.72
RE DISCCART 452400.0 4614600.0 209.12 209.12
RE DISCCART 452500.0 4614600.0 209.2 209.2
RE DISCCART 452600.0 4614600.0 196.42 209.73
RE DISCCART 452700.0 4614600.0 183.46 209.73
RE DISCCART 452800.0 4614600.0 182.18 207.94
RE DISCCART 452900.0 4614600.0 181.41 181.41
RE DISCCART 453000.0 4614600.0 180.16 180.16
RE DISCCART 453100.0 4614600.0 177.17 177.17
RE DISCCART 453200.0 4614600.0 177.04 177.04
RE DISCCART 453300.0 4614600.0 178.49 178.49
RE DISCCART 453400.0 4614600.0 178.39 178.39
RE DISCCART 453500.0 4614600.0 178.29 178.29
RE DISCCART 453600.0 4614600.0 178.33 178.33
RE DISCCART 453700.0 4614600.0 178.35 178.35
RE DISCCART 453800.0 4614600.0 178.61 178.61
RE DISCCART 453900.0 4614600.0 178.92 178.92

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RE DISCCART	454000.0	4614600.0	175.99	179.37
RE DISCCART	454100.0	4614600.0	175.6	178.19
RE DISCCART	454600.0	4614600.0	178.19	178.19
RE DISCCART	454700.0	4614600.0	178.19	178.19
RE DISCCART	454800.0	4614600.0	178.19	178.19
RE DISCCART	454900.0	4614600.0	178.19	178.19
RE DISCCART	455000.0	4614600.0	178.19	178.19
RE DISCCART	455100.0	4614600.0	178.19	178.19
RE DISCCART	455200.0	4614600.0	178.19	178.19
RE DISCCART	455300.0	4614600.0	178.19	178.19
RE DISCCART	455400.0	4614600.0	178.19	178.19
RE DISCCART	455500.0	4614600.0	178.19	178.19
RE DISCCART	455600.0	4614600.0	178.19	178.19
RE DISCCART	455700.0	4614600.0	178.19	178.19
RE DISCCART	455800.0	4614600.0	178.19	178.19
RE DISCCART	455900.0	4614600.0	178.69	178.69
RE DISCCART	456000.0	4614600.0	178.19	178.19
RE DISCCART	456100.0	4614600.0	177.59	177.59
RE DISCCART	456200.0	4614600.0	177.82	177.82
RE DISCCART	456300.0	4614600.0	178.03	178.03
RE DISCCART	456400.0	4614600.0	180.27	180.27
RE DISCCART	456500.0	4614600.0	182.16	184.29
RE DISCCART	456600.0	4614600.0	178.17	178.17
RE DISCCART	452000.0	4614700.0	178.61	209.55
RE DISCCART	452100.0	4614700.0	182.05	209.9
RE DISCCART	452200.0	4614700.0	204.96	205.33
RE DISCCART	452300.0	4614700.0	209.03	209.03
RE DISCCART	452400.0	4614700.0	209.72	209.72
RE DISCCART	452500.0	4614700.0	206.37	206.67
RE DISCCART	452600.0	4614700.0	189.84	209.73
RE DISCCART	452700.0	4614700.0	181.74	209.73
RE DISCCART	452800.0	4614700.0	181.84	181.84
RE DISCCART	452900.0	4614700.0	179.74	179.74
RE DISCCART	453000.0	4614700.0	179.51	179.51
RE DISCCART	453100.0	4614700.0	177.25	177.25
RE DISCCART	453200.0	4614700.0	178.39	178.39
RE DISCCART	453300.0	4614700.0	178.39	178.39
RE DISCCART	453400.0	4614700.0	178.29	178.29
RE DISCCART	453500.0	4614700.0	178.29	178.29
RE DISCCART	453600.0	4614700.0	178.29	178.29
RE DISCCART	453700.0	4614700.0	178.49	178.49
RE DISCCART	453800.0	4614700.0	178.54	178.54
RE DISCCART	453900.0	4614700.0	178.7	178.7
RE DISCCART	454000.0	4614700.0	175.65	175.65
RE DISCCART	454100.0	4614700.0	178.51	178.51
RE DISCCART	454600.0	4614700.0	178.19	178.19
RE DISCCART	454700.0	4614700.0	178.19	178.19
RE DISCCART	454800.0	4614700.0	178.19	178.19

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RE DISCCART	454900.0	4614700.0	178.19	178.19
RE DISCCART	455000.0	4614700.0	178.19	178.19
RE DISCCART	455100.0	4614700.0	178.19	178.19
RE DISCCART	455200.0	4614700.0	178.19	178.19
RE DISCCART	455300.0	4614700.0	178.19	178.19
RE DISCCART	455400.0	4614700.0	178.19	178.19
RE DISCCART	455500.0	4614700.0	178.19	178.19
RE DISCCART	455600.0	4614700.0	178.19	178.19
RE DISCCART	455700.0	4614700.0	178.19	178.19
RE DISCCART	455800.0	4614700.0	178.19	178.19
RE DISCCART	455900.0	4614700.0	178.26	178.26
RE DISCCART	456000.0	4614700.0	178.19	178.19
RE DISCCART	456100.0	4614700.0	177.49	177.49
RE DISCCART	456200.0	4614700.0	177.74	177.74
RE DISCCART	456300.0	4614700.0	177.8	177.8
RE DISCCART	456400.0	4614700.0	180.18	180.18
RE DISCCART	456500.0	4614700.0	181.96	186.77
RE DISCCART	456600.0	4614700.0	178.38	186.77
RE DISCCART	452000.0	4614800.0	178.29	208.98
RE DISCCART	452100.0	4614800.0	180.94	209.9
RE DISCCART	452200.0	4614800.0	183.21	209.9
RE DISCCART	452300.0	4614800.0	200.55	209.75
RE DISCCART	452400.0	4614800.0	201.	209.89
RE DISCCART	452500.0	4614800.0	200.47	206.65
RE DISCCART	452600.0	4614800.0	187.78	209.75
RE DISCCART	452700.0	4614800.0	179.32	209.75
RE DISCCART	452800.0	4614800.0	183.44	183.44
RE DISCCART	452900.0	4614800.0	180.	180.
RE DISCCART	453000.0	4614800.0	178.29	178.29
RE DISCCART	453100.0	4614800.0	178.3	178.3
RE DISCCART	453200.0	4614800.0	178.29	178.29
RE DISCCART	453300.0	4614800.0	178.29	178.29
RE DISCCART	453400.0	4614800.0	178.29	178.29
RE DISCCART	453500.0	4614800.0	178.29	178.29
RE DISCCART	453600.0	4614800.0	178.29	178.29
RE DISCCART	453700.0	4614800.0	178.48	178.48
RE DISCCART	453800.0	4614800.0	178.49	178.49
RE DISCCART	453900.0	4614800.0	178.71	178.71
RE DISCCART	454000.0	4614800.0	175.37	175.37
RE DISCCART	454600.0	4614800.0	178.19	178.19
RE DISCCART	454700.0	4614800.0	178.19	178.19
RE DISCCART	454800.0	4614800.0	178.19	178.19
RE DISCCART	454900.0	4614800.0	178.19	178.19
RE DISCCART	455000.0	4614800.0	178.19	178.19
RE DISCCART	455100.0	4614800.0	178.19	178.19
RE DISCCART	455200.0	4614800.0	178.19	178.19
RE DISCCART	455300.0	4614800.0	178.19	178.19
RE DISCCART	455400.0	4614800.0	178.19	178.19

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RE DISCCART	455500.0	4614800.0	178.19	178.19
RE DISCCART	455600.0	4614800.0	178.19	178.19
RE DISCCART	455700.0	4614800.0	178.19	178.19
RE DISCCART	455800.0	4614800.0	178.19	178.19
RE DISCCART	455900.0	4614800.0	178.19	178.19
RE DISCCART	456000.0	4614800.0	178.23	178.23
RE DISCCART	456100.0	4614800.0	177.61	177.61
RE DISCCART	456200.0	4614800.0	177.43	177.43
RE DISCCART	456300.0	4614800.0	177.7	177.7
RE DISCCART	456400.0	4614800.0	180.12	180.12
RE DISCCART	456500.0	4614800.0	180.3	186.14
RE DISCCART	456600.0	4614800.0	178.78	186.03
RE DISCCART	452000.0	4614900.0	178.29	178.29
RE DISCCART	452100.0	4614900.0	178.31	209.84
RE DISCCART	452200.0	4614900.0	178.29	209.9
RE DISCCART	452300.0	4614900.0	178.3	209.9
RE DISCCART	452400.0	4614900.0	178.35	209.9
RE DISCCART	452500.0	4614900.0	178.44	209.9
RE DISCCART	452600.0	4614900.0	178.52	209.9
RE DISCCART	452700.0	4614900.0	178.29	206.67
RE DISCCART	452800.0	4614900.0	178.3	178.3
RE DISCCART	452900.0	4614900.0	178.32	178.32
RE DISCCART	453000.0	4614900.0	178.29	178.29
RE DISCCART	453100.0	4614900.0	178.29	178.29
RE DISCCART	453200.0	4614900.0	178.29	178.29
RE DISCCART	453300.0	4614900.0	178.29	178.29
RE DISCCART	453400.0	4614900.0	178.29	178.29
RE DISCCART	453500.0	4614900.0	178.29	178.29
RE DISCCART	453600.0	4614900.0	178.29	178.29
RE DISCCART	453700.0	4614900.0	178.49	178.49
RE DISCCART	453800.0	4614900.0	178.53	178.53
RE DISCCART	453900.0	4614900.0	178.34	178.34
RE DISCCART	454000.0	4614900.0	175.19	175.19
RE DISCCART	454600.0	4614900.0	178.19	178.19
RE DISCCART	454700.0	4614900.0	178.19	178.19
RE DISCCART	454800.0	4614900.0	178.19	178.19
RE DISCCART	454900.0	4614900.0	178.19	178.19
RE DISCCART	455000.0	4614900.0	178.19	178.19
RE DISCCART	455100.0	4614900.0	178.19	178.19
RE DISCCART	455200.0	4614900.0	178.19	178.19
RE DISCCART	455300.0	4614900.0	178.19	178.19
RE DISCCART	455400.0	4614900.0	178.19	178.19
RE DISCCART	455500.0	4614900.0	178.19	178.19
RE DISCCART	455600.0	4614900.0	178.19	178.19
RE DISCCART	455700.0	4614900.0	178.19	178.19
RE DISCCART	455800.0	4614900.0	178.19	178.19
RE DISCCART	455900.0	4614900.0	178.19	178.19
RE DISCCART	456000.0	4614900.0	178.19	178.19

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RE DISCCART	456100.0	4614900.0	178.65	178.65
RE DISCCART	456200.0	4614900.0	177.43	177.43
RE DISCCART	456300.0	4614900.0	177.7	177.7
RE DISCCART	456400.0	4614900.0	179.63	179.63
RE DISCCART	456500.0	4614900.0	179.68	184.84
RE DISCCART	456600.0	4614900.0	178.98	184.25
RE DISCCART	452000.0	4615000.0	178.29	178.29
RE DISCCART	452100.0	4615000.0	178.29	178.29
RE DISCCART	452200.0	4615000.0	178.29	209.75
RE DISCCART	452300.0	4615000.0	178.29	209.9
RE DISCCART	452400.0	4615000.0	178.29	209.9
RE DISCCART	452500.0	4615000.0	178.29	209.89
RE DISCCART	452600.0	4615000.0	178.29	209.75
RE DISCCART	452700.0	4615000.0	178.29	178.29
RE DISCCART	452800.0	4615000.0	178.29	178.29
RE DISCCART	452900.0	4615000.0	178.29	178.29
RE DISCCART	453000.0	4615000.0	178.29	178.29
RE DISCCART	453100.0	4615000.0	178.29	178.29
RE DISCCART	453200.0	4615000.0	178.29	178.29
RE DISCCART	453300.0	4615000.0	178.29	178.29
RE DISCCART	453400.0	4615000.0	178.29	178.29
RE DISCCART	453500.0	4615000.0	178.29	178.29
RE DISCCART	453600.0	4615000.0	178.29	178.29
RE DISCCART	453700.0	4615000.0	178.39	178.39
RE DISCCART	453800.0	4615000.0	178.39	178.39
RE DISCCART	453900.0	4615000.0	178.42	178.42
RE DISCCART	454000.0	4615000.0	175.19	175.19
RE DISCCART	454600.0	4615000.0	178.19	178.19
RE DISCCART	454700.0	4615000.0	178.19	178.19
RE DISCCART	454800.0	4615000.0	178.27	178.27
RE DISCCART	454900.0	4615000.0	178.19	178.19
RE DISCCART	455000.0	4615000.0	178.19	178.19
RE DISCCART	455100.0	4615000.0	178.19	178.19
RE DISCCART	455200.0	4615000.0	178.19	178.19
RE DISCCART	455300.0	4615000.0	178.19	178.19
RE DISCCART	455400.0	4615000.0	178.19	178.19
RE DISCCART	455500.0	4615000.0	178.19	178.19
RE DISCCART	455600.0	4615000.0	178.19	178.19
RE DISCCART	455700.0	4615000.0	178.19	178.19
RE DISCCART	455800.0	4615000.0	178.19	178.19
RE DISCCART	455900.0	4615000.0	178.19	178.19
RE DISCCART	456000.0	4615000.0	178.19	178.19
RE DISCCART	456100.0	4615000.0	178.05	178.05
RE DISCCART	456200.0	4615000.0	178.26	178.26
RE DISCCART	456300.0	4615000.0	177.64	177.64
RE DISCCART	456400.0	4615000.0	179.49	179.49
RE DISCCART	456500.0	4615000.0	179.26	182.74
RE DISCCART	456600.0	4615000.0	179.42	182.36

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RE DISCCART	452000.0	4615100.0	178.29	178.29
RE DISCCART	452100.0	4615100.0	177.98	177.98
RE DISCCART	452200.0	4615100.0	177.62	177.62
RE DISCCART	452300.0	4615100.0	178.29	178.29
RE DISCCART	452400.0	4615100.0	178.29	178.29
RE DISCCART	452500.0	4615100.0	178.29	178.29
RE DISCCART	452600.0	4615100.0	178.29	178.29
RE DISCCART	452700.0	4615100.0	178.29	178.29
RE DISCCART	452800.0	4615100.0	178.29	178.29
RE DISCCART	452900.0	4615100.0	178.29	178.29
RE DISCCART	453000.0	4615100.0	178.29	178.29
RE DISCCART	453100.0	4615100.0	178.34	178.34
RE DISCCART	453200.0	4615100.0	178.39	178.39
RE DISCCART	453300.0	4615100.0	178.29	178.29
RE DISCCART	453400.0	4615100.0	178.29	178.29
RE DISCCART	453500.0	4615100.0	178.29	178.29
RE DISCCART	453600.0	4615100.0	178.29	178.29
RE DISCCART	453700.0	4615100.0	178.29	178.29
RE DISCCART	453800.0	4615100.0	178.29	178.29
RE DISCCART	453900.0	4615100.0	178.29	178.29
RE DISCCART	454000.0	4615100.0	175.19	175.19
RE DISCCART	454100.0	4615100.0	178.18	178.18
RE DISCCART	454600.0	4615100.0	178.19	178.19
RE DISCCART	454700.0	4615100.0	178.19	178.19
RE DISCCART	454800.0	4615100.0	178.19	178.19
RE DISCCART	454900.0	4615100.0	178.19	178.19
RE DISCCART	455000.0	4615100.0	178.19	178.19
RE DISCCART	455100.0	4615100.0	178.19	178.19
RE DISCCART	455200.0	4615100.0	178.19	178.19
RE DISCCART	455300.0	4615100.0	178.19	178.19
RE DISCCART	455400.0	4615100.0	178.19	178.19
RE DISCCART	455500.0	4615100.0	178.19	178.19
RE DISCCART	455600.0	4615100.0	178.19	178.19
RE DISCCART	455700.0	4615100.0	178.19	178.19
RE DISCCART	455800.0	4615100.0	178.19	178.19
RE DISCCART	455900.0	4615100.0	178.19	178.19
RE DISCCART	456000.0	4615100.0	178.19	178.19
RE DISCCART	456100.0	4615100.0	177.83	177.83
RE DISCCART	456200.0	4615100.0	177.91	177.91
RE DISCCART	456300.0	4615100.0	177.88	177.88
RE DISCCART	456400.0	4615100.0	179.68	179.68
RE DISCCART	456500.0	4615100.0	179.97	179.97
RE DISCCART	456600.0	4615100.0	179.97	179.97
RE DISCCART	452000.0	4615200.0	178.29	178.29
RE DISCCART	452100.0	4615200.0	177.59	177.59
RE DISCCART	452200.0	4615200.0	178.28	178.28
RE DISCCART	452300.0	4615200.0	178.29	178.29
RE DISCCART	452400.0	4615200.0	178.29	178.29

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RE DISCCART	452500.0	4615200.0	178.29	178.29
RE DISCCART	452600.0	4615200.0	178.29	178.29
RE DISCCART	452700.0	4615200.0	178.29	178.29
RE DISCCART	452800.0	4615200.0	178.29	178.29
RE DISCCART	452900.0	4615200.0	178.29	178.29
RE DISCCART	453000.0	4615200.0	178.29	178.29
RE DISCCART	453100.0	4615200.0	178.33	178.33
RE DISCCART	453200.0	4615200.0	178.49	178.49
RE DISCCART	453300.0	4615200.0	178.29	178.29
RE DISCCART	453400.0	4615200.0	178.29	178.29
RE DISCCART	453500.0	4615200.0	178.29	178.29
RE DISCCART	453600.0	4615200.0	178.29	178.29
RE DISCCART	453700.0	4615200.0	178.29	178.29
RE DISCCART	453800.0	4615200.0	178.29	178.29
RE DISCCART	453900.0	4615200.0	178.32	178.32
RE DISCCART	454000.0	4615200.0	175.53	175.53
RE DISCCART	454100.0	4615200.0	178.1	178.1
RE DISCCART	454200.0	4615200.0	178.19	178.19
RE DISCCART	454600.0	4615200.0	178.19	178.19
RE DISCCART	454700.0	4615200.0	178.19	178.19
RE DISCCART	454800.0	4615200.0	178.19	178.19
RE DISCCART	454900.0	4615200.0	178.19	178.19
RE DISCCART	455000.0	4615200.0	178.19	178.19
RE DISCCART	455100.0	4615200.0	178.19	178.19
RE DISCCART	455200.0	4615200.0	178.19	178.19
RE DISCCART	455300.0	4615200.0	178.19	178.19
RE DISCCART	455400.0	4615200.0	178.19	178.19
RE DISCCART	455500.0	4615200.0	178.19	178.19
RE DISCCART	455600.0	4615200.0	178.19	178.19
RE DISCCART	455700.0	4615200.0	178.19	178.19
RE DISCCART	455800.0	4615200.0	178.19	178.19
RE DISCCART	455900.0	4615200.0	178.19	178.19
RE DISCCART	456000.0	4615200.0	178.19	178.19
RE DISCCART	456100.0	4615200.0	178.08	178.08
RE DISCCART	456200.0	4615200.0	178.2	178.2
RE DISCCART	456300.0	4615200.0	177.94	177.94
RE DISCCART	456400.0	4615200.0	179.33	179.33
RE DISCCART	456500.0	4615200.0	181.3	181.3
RE DISCCART	456600.0	4615200.0	181.38	181.38
RE DISCCART	452000.0	4615300.0	178.29	178.29
RE DISCCART	452100.0	4615300.0	177.34	177.34
RE DISCCART	452200.0	4615300.0	178.29	178.29
RE DISCCART	452300.0	4615300.0	177.69	177.69
RE DISCCART	452400.0	4615300.0	177.71	177.71
RE DISCCART	452500.0	4615300.0	177.73	177.73
RE DISCCART	452600.0	4615300.0	177.75	177.75
RE DISCCART	452700.0	4615300.0	178.29	178.29
RE DISCCART	452800.0	4615300.0	178.29	178.29

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RE DISCCART	452900.0	4615300.0	178.29	178.29
RE DISCCART	453000.0	4615300.0	178.29	178.29
RE DISCCART	453100.0	4615300.0	178.36	178.36
RE DISCCART	453200.0	4615300.0	178.6	178.6
RE DISCCART	453300.0	4615300.0	178.46	178.46
RE DISCCART	453400.0	4615300.0	178.29	178.29
RE DISCCART	453500.0	4615300.0	178.29	178.29
RE DISCCART	453600.0	4615300.0	178.29	178.29
RE DISCCART	453700.0	4615300.0	178.29	178.29
RE DISCCART	453800.0	4615300.0	178.29	178.29
RE DISCCART	453900.0	4615300.0	178.42	178.42
RE DISCCART	454000.0	4615300.0	175.46	175.46
RE DISCCART	454100.0	4615300.0	178.41	178.41
RE DISCCART	454200.0	4615300.0	178.19	178.19
RE DISCCART	454300.0	4615300.0	178.19	178.19
RE DISCCART	454400.0	4615300.0	178.19	178.19
RE DISCCART	454500.0	4615300.0	178.19	178.19
RE DISCCART	454600.0	4615300.0	178.19	178.19
RE DISCCART	454700.0	4615300.0	178.19	178.19
RE DISCCART	454800.0	4615300.0	178.19	178.19
RE DISCCART	454900.0	4615300.0	178.19	178.19
RE DISCCART	455000.0	4615300.0	178.19	178.19
RE DISCCART	455100.0	4615300.0	178.19	178.19
RE DISCCART	455200.0	4615300.0	178.19	178.19
RE DISCCART	455300.0	4615300.0	178.19	178.19
RE DISCCART	455400.0	4615300.0	178.19	178.19
RE DISCCART	455500.0	4615300.0	178.19	178.19
RE DISCCART	455600.0	4615300.0	178.19	178.19
RE DISCCART	455700.0	4615300.0	178.19	178.19
RE DISCCART	455800.0	4615300.0	178.19	178.19
RE DISCCART	455900.0	4615300.0	178.19	178.19
RE DISCCART	456000.0	4615300.0	178.19	178.19
RE DISCCART	456100.0	4615300.0	178.26	178.26
RE DISCCART	456200.0	4615300.0	178.21	178.21
RE DISCCART	456300.0	4615300.0	177.86	177.86
RE DISCCART	456400.0	4615300.0	179.55	179.55
RE DISCCART	456500.0	4615300.0	182.27	182.27
RE DISCCART	456600.0	4615300.0	181.83	181.83
RE DISCCART	452000.0	4615400.0	178.29	178.29
RE DISCCART	452100.0	4615400.0	178.16	178.16
RE DISCCART	452200.0	4615400.0	177.99	177.99
RE DISCCART	452300.0	4615400.0	176.99	176.99
RE DISCCART	452400.0	4615400.0	176.99	176.99
RE DISCCART	452500.0	4615400.0	176.99	176.99
RE DISCCART	452600.0	4615400.0	177.01	177.01
RE DISCCART	452700.0	4615400.0	177.09	177.09
RE DISCCART	452800.0	4615400.0	176.99	176.99
RE DISCCART	452900.0	4615400.0	178.29	178.29

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RE DISCCART	453000.0	4615400.0	178.29	178.29
RE DISCCART	453100.0	4615400.0	178.38	178.38
RE DISCCART	453200.0	4615400.0	178.54	178.54
RE DISCCART	453300.0	4615400.0	178.63	178.63
RE DISCCART	453400.0	4615400.0	178.29	178.29
RE DISCCART	453500.0	4615400.0	178.29	178.29
RE DISCCART	453600.0	4615400.0	178.34	178.34
RE DISCCART	453700.0	4615400.0	178.29	178.29
RE DISCCART	453800.0	4615400.0	178.39	178.39
RE DISCCART	453900.0	4615400.0	178.44	178.44
RE DISCCART	454000.0	4615400.0	175.42	175.42
RE DISCCART	454100.0	4615400.0	178.56	178.56
RE DISCCART	454200.0	4615400.0	178.19	178.19
RE DISCCART	454300.0	4615400.0	178.19	178.19
RE DISCCART	454400.0	4615400.0	178.19	178.19
RE DISCCART	454500.0	4615400.0	178.19	178.19
RE DISCCART	454600.0	4615400.0	178.19	178.19
RE DISCCART	454700.0	4615400.0	178.19	178.19
RE DISCCART	454800.0	4615400.0	178.19	178.19
RE DISCCART	454900.0	4615400.0	178.19	178.19
RE DISCCART	455000.0	4615400.0	178.19	178.19
RE DISCCART	455100.0	4615400.0	178.19	178.19
RE DISCCART	455200.0	4615400.0	178.19	178.19
RE DISCCART	455300.0	4615400.0	178.19	178.19
RE DISCCART	455400.0	4615400.0	178.19	178.19
RE DISCCART	455500.0	4615400.0	178.19	178.19
RE DISCCART	455600.0	4615400.0	178.19	178.19
RE DISCCART	455700.0	4615400.0	178.19	178.19
RE DISCCART	455800.0	4615400.0	178.19	178.19
RE DISCCART	455900.0	4615400.0	178.19	178.19
RE DISCCART	456000.0	4615400.0	178.19	178.19
RE DISCCART	456100.0	4615400.0	178.21	178.21
RE DISCCART	456200.0	4615400.0	178.22	178.22
RE DISCCART	456300.0	4615400.0	177.8	177.8
RE DISCCART	456400.0	4615400.0	179.57	179.57
RE DISCCART	456500.0	4615400.0	181.06	181.06
RE DISCCART	456600.0	4615400.0	182.26	182.26
RE DISCCART	452000.0	4615500.0	178.29	178.29
RE DISCCART	452100.0	4615500.0	178.29	178.29
RE DISCCART	452200.0	4615500.0	178.29	178.29
RE DISCCART	452300.0	4615500.0	176.99	176.99
RE DISCCART	452400.0	4615500.0	176.99	176.99
RE DISCCART	452500.0	4615500.0	176.99	176.99
RE DISCCART	452600.0	4615500.0	178.29	178.29
RE DISCCART	452700.0	4615500.0	176.99	176.99
RE DISCCART	452800.0	4615500.0	176.99	176.99
RE DISCCART	452900.0	4615500.0	178.29	178.29
RE DISCCART	453000.0	4615500.0	178.29	178.29

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RE DISCCART	453100.0	4615500.0	178.39	178.39
RE DISCCART	453200.0	4615500.0	178.6	178.6
RE DISCCART	453300.0	4615500.0	178.68	178.68
RE DISCCART	453400.0	4615500.0	178.35	178.35
RE DISCCART	453500.0	4615500.0	178.29	178.29
RE DISCCART	453600.0	4615500.0	178.58	178.58
RE DISCCART	453700.0	4615500.0	178.42	178.42
RE DISCCART	453800.0	4615500.0	178.58	178.58
RE DISCCART	453900.0	4615500.0	178.31	178.31
RE DISCCART	454000.0	4615500.0	175.62	178.29
RE DISCCART	454100.0	4615500.0	176.8	176.8
RE DISCCART	454200.0	4615500.0	178.19	178.19
RE DISCCART	454300.0	4615500.0	178.19	178.19
RE DISCCART	454400.0	4615500.0	178.19	178.19
RE DISCCART	454500.0	4615500.0	178.19	178.19
RE DISCCART	454600.0	4615500.0	178.19	178.19
RE DISCCART	454700.0	4615500.0	178.19	178.19
RE DISCCART	454800.0	4615500.0	178.19	178.19
RE DISCCART	454900.0	4615500.0	178.19	178.19
RE DISCCART	455000.0	4615500.0	178.19	178.19
RE DISCCART	455100.0	4615500.0	178.19	178.19
RE DISCCART	455200.0	4615500.0	178.19	178.19
RE DISCCART	455300.0	4615500.0	178.19	178.19
RE DISCCART	455400.0	4615500.0	178.19	178.19
RE DISCCART	455500.0	4615500.0	178.19	178.19
RE DISCCART	455600.0	4615500.0	178.19	178.19
RE DISCCART	455700.0	4615500.0	178.19	178.19
RE DISCCART	455800.0	4615500.0	178.19	178.19
RE DISCCART	455900.0	4615500.0	178.19	178.19
RE DISCCART	456000.0	4615500.0	178.19	178.19
RE DISCCART	456100.0	4615500.0	177.86	177.86
RE DISCCART	456200.0	4615500.0	178.22	178.22
RE DISCCART	456300.0	4615500.0	177.49	177.49
RE DISCCART	456400.0	4615500.0	178.8	178.8
RE DISCCART	456500.0	4615500.0	179.85	183.18
RE DISCCART	456600.0	4615500.0	179.81	183.26
RE DISCCART	452000.0	4615600.0	178.29	178.29
RE DISCCART	452100.0	4615600.0	178.29	178.29
RE DISCCART	452200.0	4615600.0	178.29	178.29
RE DISCCART	452300.0	4615600.0	176.99	176.99
RE DISCCART	452400.0	4615600.0	177.84	177.84
RE DISCCART	452500.0	4615600.0	176.99	176.99
RE DISCCART	452600.0	4615600.0	176.99	176.99
RE DISCCART	452700.0	4615600.0	177.97	177.97
RE DISCCART	452800.0	4615600.0	177.89	177.89
RE DISCCART	452900.0	4615600.0	178.29	178.29
RE DISCCART	453000.0	4615600.0	178.29	178.29
RE DISCCART	453100.0	4615600.0	178.45	178.45

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RE DISCCART	453200.0	4615600.0	178.69	178.69
RE DISCCART	453300.0	4615600.0	178.82	178.82
RE DISCCART	453400.0	4615600.0	178.85	178.85
RE DISCCART	453500.0	4615600.0	178.71	178.71
RE DISCCART	453600.0	4615600.0	178.84	178.84
RE DISCCART	453700.0	4615600.0	178.84	178.84
RE DISCCART	453800.0	4615600.0	178.72	178.72
RE DISCCART	453900.0	4615600.0	178.45	178.45
RE DISCCART	454000.0	4615600.0	176.58	176.58
RE DISCCART	454100.0	4615600.0	177.2	177.2
RE DISCCART	454200.0	4615600.0	178.19	178.19
RE DISCCART	454300.0	4615600.0	178.19	178.19
RE DISCCART	454400.0	4615600.0	178.19	178.19
RE DISCCART	454500.0	4615600.0	178.19	178.19
RE DISCCART	454600.0	4615600.0	178.19	178.19
RE DISCCART	454700.0	4615600.0	178.19	178.19
RE DISCCART	454800.0	4615600.0	178.19	178.19
RE DISCCART	454900.0	4615600.0	178.19	178.19
RE DISCCART	455000.0	4615600.0	178.19	178.19
RE DISCCART	455100.0	4615600.0	178.19	178.19
RE DISCCART	455200.0	4615600.0	178.19	178.19
RE DISCCART	455300.0	4615600.0	178.19	178.19
RE DISCCART	455400.0	4615600.0	178.19	178.19
RE DISCCART	455500.0	4615600.0	178.19	178.19
RE DISCCART	455600.0	4615600.0	178.19	178.19
RE DISCCART	455700.0	4615600.0	178.19	178.19
RE DISCCART	455800.0	4615600.0	178.19	178.19
RE DISCCART	455900.0	4615600.0	178.19	178.19
RE DISCCART	456000.0	4615600.0	178.19	178.19
RE DISCCART	456100.0	4615600.0	177.52	177.52
RE DISCCART	456200.0	4615600.0	178.02	178.02
RE DISCCART	456300.0	4615600.0	178.38	178.38
RE DISCCART	456400.0	4615600.0	178.77	178.77
RE DISCCART	456500.0	4615600.0	179.03	183.54
RE DISCCART	456600.0	4615600.0	178.87	183.7
RE DISCCART	452000.0	4615700.0	178.29	178.29
RE DISCCART	452100.0	4615700.0	178.29	178.29
RE DISCCART	452200.0	4615700.0	178.29	178.29
RE DISCCART	452300.0	4615700.0	177.57	177.57
RE DISCCART	452400.0	4615700.0	177.7	177.7
RE DISCCART	452500.0	4615700.0	176.99	176.99
RE DISCCART	452600.0	4615700.0	176.99	176.99
RE DISCCART	452700.0	4615700.0	176.99	176.99
RE DISCCART	452800.0	4615700.0	177.16	177.16
RE DISCCART	452900.0	4615700.0	176.99	176.99
RE DISCCART	453000.0	4615700.0	178.29	178.29
RE DISCCART	453100.0	4615700.0	178.45	178.45
RE DISCCART	453200.0	4615700.0	178.79	178.79

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RE DISCCART	453300.0	4615700.0	179.01	179.01
RE DISCCART	453400.0	4615700.0	179.16	179.16
RE DISCCART	453500.0	4615700.0	179.17	179.17
RE DISCCART	453600.0	4615700.0	179.14	179.14
RE DISCCART	453700.0	4615700.0	179.07	179.07
RE DISCCART	453800.0	4615700.0	178.8	178.8
RE DISCCART	453900.0	4615700.0	178.39	178.39
RE DISCCART	454000.0	4615700.0	177.6	177.6
RE DISCCART	454100.0	4615700.0	175.19	178.41
RE DISCCART	454200.0	4615700.0	178.19	178.19
RE DISCCART	454300.0	4615700.0	178.19	178.19
RE DISCCART	454400.0	4615700.0	178.19	178.19
RE DISCCART	454500.0	4615700.0	178.19	178.19
RE DISCCART	454600.0	4615700.0	178.19	178.19
RE DISCCART	454700.0	4615700.0	178.19	178.19
RE DISCCART	454800.0	4615700.0	178.19	178.19
RE DISCCART	454900.0	4615700.0	178.19	178.19
RE DISCCART	455000.0	4615700.0	178.19	178.19
RE DISCCART	455100.0	4615700.0	178.19	178.19
RE DISCCART	455200.0	4615700.0	178.19	178.19
RE DISCCART	455300.0	4615700.0	178.19	178.19
RE DISCCART	455400.0	4615700.0	178.19	178.19
RE DISCCART	455500.0	4615700.0	178.19	178.19
RE DISCCART	455600.0	4615700.0	178.19	178.19
RE DISCCART	455700.0	4615700.0	178.19	178.19
RE DISCCART	455800.0	4615700.0	178.19	178.19
RE DISCCART	455900.0	4615700.0	178.19	178.19
RE DISCCART	456000.0	4615700.0	178.19	178.19
RE DISCCART	456100.0	4615700.0	178.5	178.5
RE DISCCART	456200.0	4615700.0	178.59	178.59
RE DISCCART	456300.0	4615700.0	178.59	178.59
RE DISCCART	456400.0	4615700.0	178.48	178.48
RE DISCCART	456500.0	4615700.0	178.32	183.58
RE DISCCART	456600.0	4615700.0	178.79	183.72
RE DISCCART	452000.0	4615800.0	178.29	178.29
RE DISCCART	452100.0	4615800.0	178.29	178.29
RE DISCCART	452200.0	4615800.0	178.29	178.29
RE DISCCART	452300.0	4615800.0	176.99	176.99
RE DISCCART	452400.0	4615800.0	178.29	178.29
RE DISCCART	452500.0	4615800.0	178.29	178.29
RE DISCCART	452600.0	4615800.0	178.29	178.29
RE DISCCART	452700.0	4615800.0	176.99	176.99
RE DISCCART	452800.0	4615800.0	177.73	177.73
RE DISCCART	452900.0	4615800.0	178.29	178.29
RE DISCCART	453000.0	4615800.0	178.29	178.29
RE DISCCART	453100.0	4615800.0	178.45	178.45
RE DISCCART	453200.0	4615800.0	178.78	178.78
RE DISCCART	453300.0	4615800.0	179.01	179.01

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RE DISCCART 453400.0 4615800.0 179. 179.
RE DISCCART 453500.0 4615800.0 179.4 179.4
RE DISCCART 453600.0 4615800.0 179.39 179.39
RE DISCCART 453700.0 4615800.0 179.25 179.25
RE DISCCART 453800.0 4615800.0 178.55 178.55
RE DISCCART 453900.0 4615800.0 178.36 178.36
RE DISCCART 454000.0 4615800.0 176.8 178.29
RE DISCCART 454100.0 4615800.0 175.19 178.09
RE DISCCART 454200.0 4615800.0 178.19 178.19
RE DISCCART 454300.0 4615800.0 178.19 178.19
RE DISCCART 454400.0 4615800.0 178.19 178.19
RE DISCCART 454500.0 4615800.0 178.19 178.19
RE DISCCART 454600.0 4615800.0 178.19 178.19
RE DISCCART 454700.0 4615800.0 178.19 178.19
RE DISCCART 454800.0 4615800.0 178.19 178.19
RE DISCCART 454900.0 4615800.0 178.19 178.19
RE DISCCART 455000.0 4615800.0 178.19 178.19
RE DISCCART 455100.0 4615800.0 178.19 178.19
RE DISCCART 455200.0 4615800.0 178.19 178.19
RE DISCCART 455300.0 4615800.0 178.19 178.19
RE DISCCART 455400.0 4615800.0 178.19 178.19
RE DISCCART 455500.0 4615800.0 178.19 178.19
RE DISCCART 455600.0 4615800.0 178.19 178.19
RE DISCCART 455700.0 4615800.0 178.19 178.19
RE DISCCART 455800.0 4615800.0 178.19 178.19
RE DISCCART 455900.0 4615800.0 178.19 178.19
RE DISCCART 456000.0 4615800.0 178.19 178.19
RE DISCCART 456100.0 4615800.0 178.01 178.01
RE DISCCART 456200.0 4615800.0 178.28 178.28
RE DISCCART 456300.0 4615800.0 178.36 178.36
RE DISCCART 456400.0 4615800.0 178.53 178.53
RE DISCCART 456500.0 4615800.0 178.37 183.37
RE DISCCART 456600.0 4615800.0 179.34 183.68
RE DISCCART 452000.0 4615900.0 178.29 178.29
RE DISCCART 452100.0 4615900.0 178.29 178.29
RE DISCCART 452200.0 4615900.0 178.29 178.29
RE DISCCART 452300.0 4615900.0 178.29 178.29
RE DISCCART 452400.0 4615900.0 178.29 178.29
RE DISCCART 452500.0 4615900.0 178.29 178.29
RE DISCCART 452600.0 4615900.0 177.89 177.89
RE DISCCART 452700.0 4615900.0 176.99 176.99
RE DISCCART 452800.0 4615900.0 178.24 178.24
RE DISCCART 452900.0 4615900.0 178.29 178.29
RE DISCCART 453000.0 4615900.0 178.29 178.29
RE DISCCART 453100.0 4615900.0 178.45 178.45
RE DISCCART 453200.0 4615900.0 178.78 178.78
RE DISCCART 453300.0 4615900.0 179.08 179.08
RE DISCCART 453400.0 4615900.0 179.03 179.03

Phosphorus_2014_OTHER.DTA

RE DISCCART	453500.0	4615900.0	179.3	179.3
RE DISCCART	453600.0	4615900.0	179.59	179.59
RE DISCCART	453700.0	4615900.0	177.94	177.94
RE DISCCART	453800.0	4615900.0	177.79	177.79
RE DISCCART	453900.0	4615900.0	177.81	177.81
RE DISCCART	454000.0	4615900.0	175.38	175.38
RE DISCCART	454100.0	4615900.0	175.19	178.66
RE DISCCART	454200.0	4615900.0	178.22	178.22
RE DISCCART	454300.0	4615900.0	178.19	178.19
RE DISCCART	454400.0	4615900.0	178.19	178.19
RE DISCCART	454500.0	4615900.0	178.19	178.19
RE DISCCART	454600.0	4615900.0	178.19	178.19
RE DISCCART	454700.0	4615900.0	178.19	178.19
RE DISCCART	454800.0	4615900.0	178.19	178.19
RE DISCCART	454900.0	4615900.0	178.19	178.19
RE DISCCART	455000.0	4615900.0	178.19	178.19
RE DISCCART	455100.0	4615900.0	178.19	178.19
RE DISCCART	455200.0	4615900.0	178.19	178.19
RE DISCCART	455300.0	4615900.0	178.19	178.19
RE DISCCART	455400.0	4615900.0	178.19	178.19
RE DISCCART	455500.0	4615900.0	178.19	178.19
RE DISCCART	455600.0	4615900.0	178.19	178.19
RE DISCCART	455700.0	4615900.0	178.19	178.19
RE DISCCART	455800.0	4615900.0	178.19	178.19
RE DISCCART	455900.0	4615900.0	178.19	178.19
RE DISCCART	456000.0	4615900.0	178.19	178.19
RE DISCCART	456100.0	4615900.0	178.02	178.02
RE DISCCART	456200.0	4615900.0	178.19	178.19
RE DISCCART	456300.0	4615900.0	178.28	178.28
RE DISCCART	456400.0	4615900.0	178.33	178.33
RE DISCCART	456500.0	4615900.0	179.93	179.93
RE DISCCART	456600.0	4615900.0	179.18	183.16
RE DISCCART	452000.0	4616000.0	178.44	178.44
RE DISCCART	452100.0	4616000.0	178.29	178.29
RE DISCCART	452200.0	4616000.0	178.29	178.29
RE DISCCART	452300.0	4616000.0	178.29	178.29
RE DISCCART	452400.0	4616000.0	178.29	178.29
RE DISCCART	452500.0	4616000.0	178.29	178.29
RE DISCCART	452600.0	4616000.0	176.99	176.99
RE DISCCART	452700.0	4616000.0	176.99	176.99
RE DISCCART	452800.0	4616000.0	177.95	177.95
RE DISCCART	452900.0	4616000.0	177.18	177.18
RE DISCCART	453000.0	4616000.0	178.29	178.29
RE DISCCART	453100.0	4616000.0	178.45	178.45
RE DISCCART	453200.0	4616000.0	178.78	178.78
RE DISCCART	453300.0	4616000.0	179.1	179.1
RE DISCCART	453400.0	4616000.0	179.4	179.4
RE DISCCART	453500.0	4616000.0	179.68	179.68

Phosphorus_2014_OTHER.DTA

RE DISCCART	453600.0	4616000.0	179.95	179.95
RE DISCCART	453700.0	4616000.0	178.75	178.75
RE DISCCART	453800.0	4616000.0	178.76	178.76
RE DISCCART	453900.0	4616000.0	178.78	178.78
RE DISCCART	454000.0	4616000.0	175.19	175.19
RE DISCCART	454100.0	4616000.0	177.71	177.71
RE DISCCART	454200.0	4616000.0	178.25	178.25
RE DISCCART	454300.0	4616000.0	178.19	178.19
RE DISCCART	454400.0	4616000.0	178.19	178.19
RE DISCCART	454500.0	4616000.0	178.19	178.19
RE DISCCART	454600.0	4616000.0	178.19	178.19
RE DISCCART	454700.0	4616000.0	178.19	178.19
RE DISCCART	454800.0	4616000.0	178.19	178.19
RE DISCCART	454900.0	4616000.0	178.19	178.19
RE DISCCART	455000.0	4616000.0	178.19	178.19
RE DISCCART	455100.0	4616000.0	178.19	178.19
RE DISCCART	455200.0	4616000.0	178.19	178.19
RE DISCCART	455300.0	4616000.0	178.19	178.19
RE DISCCART	455400.0	4616000.0	178.19	178.19
RE DISCCART	455500.0	4616000.0	178.19	178.19
RE DISCCART	455600.0	4616000.0	178.19	178.19
RE DISCCART	455700.0	4616000.0	178.19	178.19
RE DISCCART	455800.0	4616000.0	178.19	178.19
RE DISCCART	455900.0	4616000.0	178.19	178.19
RE DISCCART	456000.0	4616000.0	178.19	178.19
RE DISCCART	456100.0	4616000.0	178.04	178.04
RE DISCCART	456200.0	4616000.0	178.2	178.2
RE DISCCART	456300.0	4616000.0	178.58	178.58
RE DISCCART	456400.0	4616000.0	178.22	178.22
RE DISCCART	456500.0	4616000.0	179.4	179.4
RE DISCCART	456600.0	4616000.0	179.78	182.42
RE DISCCART	452000.0	4616100.0	179.38	179.38
RE DISCCART	452100.0	4616100.0	178.29	178.29
RE DISCCART	452200.0	4616100.0	178.29	178.29
RE DISCCART	452300.0	4616100.0	178.29	178.29
RE DISCCART	452400.0	4616100.0	177.72	177.72
RE DISCCART	452500.0	4616100.0	177.71	177.71
RE DISCCART	452600.0	4616100.0	176.99	176.99
RE DISCCART	452700.0	4616100.0	177.57	177.57
RE DISCCART	452800.0	4616100.0	177.92	177.92
RE DISCCART	452900.0	4616100.0	178.1	178.1
RE DISCCART	453000.0	4616100.0	178.29	178.29
RE DISCCART	453100.0	4616100.0	178.35	178.35
RE DISCCART	453200.0	4616100.0	178.39	178.39
RE DISCCART	453300.0	4616100.0	178.46	178.46
RE DISCCART	453400.0	4616100.0	178.57	178.57
RE DISCCART	453500.0	4616100.0	179.71	179.71
RE DISCCART	453600.0	4616100.0	180.22	180.22

Phosphorus_2014_OTHER.DTA

RE DISCCART	453700.0	4616100.0	180.5	180.5
RE DISCCART	453800.0	4616100.0	180.33	180.33
RE DISCCART	453900.0	4616100.0	180.15	180.15
RE DISCCART	454000.0	4616100.0	175.19	175.19
RE DISCCART	454100.0	4616100.0	178.19	178.19
RE DISCCART	454200.0	4616100.0	178.19	178.19
RE DISCCART	454300.0	4616100.0	178.29	178.29
RE DISCCART	454400.0	4616100.0	178.19	178.19
RE DISCCART	454500.0	4616100.0	178.19	178.19
RE DISCCART	454600.0	4616100.0	178.19	178.19
RE DISCCART	454700.0	4616100.0	178.19	178.19
RE DISCCART	454800.0	4616100.0	178.19	178.19
RE DISCCART	454900.0	4616100.0	178.19	178.19
RE DISCCART	455000.0	4616100.0	178.19	178.19
RE DISCCART	455100.0	4616100.0	178.19	178.19
RE DISCCART	455200.0	4616100.0	178.19	178.19
RE DISCCART	455300.0	4616100.0	178.19	178.19
RE DISCCART	455400.0	4616100.0	178.38	178.38
RE DISCCART	455500.0	4616100.0	178.19	178.19
RE DISCCART	455600.0	4616100.0	178.19	178.19
RE DISCCART	455700.0	4616100.0	178.19	178.19
RE DISCCART	455800.0	4616100.0	178.19	178.19
RE DISCCART	455900.0	4616100.0	178.19	178.19
RE DISCCART	456000.0	4616100.0	178.19	178.19
RE DISCCART	456100.0	4616100.0	178.09	178.09
RE DISCCART	456200.0	4616100.0	178.27	178.27
RE DISCCART	456300.0	4616100.0	178.45	178.45
RE DISCCART	456400.0	4616100.0	178.37	178.37
RE DISCCART	456500.0	4616100.0	178.99	178.99
RE DISCCART	456600.0	4616100.0	180.69	180.69
RE DISCCART	452000.0	4616200.0	179.62	179.62
RE DISCCART	452100.0	4616200.0	178.64	178.64
RE DISCCART	452200.0	4616200.0	178.38	178.38
RE DISCCART	452300.0	4616200.0	178.29	178.29
RE DISCCART	452400.0	4616200.0	178.29	178.29
RE DISCCART	452500.0	4616200.0	178.31	178.31
RE DISCCART	452600.0	4616200.0	178.37	178.37
RE DISCCART	452700.0	4616200.0	178.31	178.31
RE DISCCART	452800.0	4616200.0	178.29	178.29
RE DISCCART	452900.0	4616200.0	178.29	178.29
RE DISCCART	453000.0	4616200.0	178.29	178.29
RE DISCCART	453100.0	4616200.0	178.29	178.29
RE DISCCART	453200.0	4616200.0	178.29	178.29
RE DISCCART	453300.0	4616200.0	178.29	178.29
RE DISCCART	453400.0	4616200.0	178.29	178.29
RE DISCCART	453500.0	4616200.0	179.7	179.7
RE DISCCART	453600.0	4616200.0	180.18	180.18
RE DISCCART	453700.0	4616200.0	180.09	180.09

Phosphorus_2014_OTHER.DTA

RE DISCCART 453800.0 4616200.0 178.5 178.5
RE DISCCART 453900.0 4616200.0 177.6 177.6
RE DISCCART 454000.0 4616200.0 176.12 177.72
RE DISCCART 454100.0 4616200.0 178.19 178.19
RE DISCCART 454200.0 4616200.0 178.19 178.19
RE DISCCART 454300.0 4616200.0 178.2 178.2
RE DISCCART 454400.0 4616200.0 178.3 178.3
RE DISCCART 454500.0 4616200.0 178.19 178.19
RE DISCCART 454600.0 4616200.0 178.19 178.19
RE DISCCART 454700.0 4616200.0 178.19 178.19
RE DISCCART 454800.0 4616200.0 178.19 178.19
RE DISCCART 454900.0 4616200.0 178.19 178.19
RE DISCCART 455000.0 4616200.0 178.19 178.19
RE DISCCART 455100.0 4616200.0 178.19 178.19
RE DISCCART 455200.0 4616200.0 178.19 178.19
RE DISCCART 455300.0 4616200.0 178.19 178.19
RE DISCCART 455400.0 4616200.0 178.33 178.33
RE DISCCART 455500.0 4616200.0 178.31 178.31
RE DISCCART 455600.0 4616200.0 178.19 178.19
RE DISCCART 455700.0 4616200.0 178.19 178.19
RE DISCCART 455800.0 4616200.0 178.19 178.19
RE DISCCART 455900.0 4616200.0 178.19 178.19
RE DISCCART 456000.0 4616200.0 178.19 178.19
RE DISCCART 456100.0 4616200.0 178.11 178.11
RE DISCCART 456200.0 4616200.0 178.29 178.29
RE DISCCART 456300.0 4616200.0 178.48 178.48
RE DISCCART 456400.0 4616200.0 178.18 178.18
RE DISCCART 456500.0 4616200.0 178.91 178.91
RE DISCCART 456600.0 4616200.0 180.62 180.62
RE DISCCART 452000.0 4616300.0 179.43 179.43
RE DISCCART 452100.0 4616300.0 178.91 178.91
RE DISCCART 452200.0 4616300.0 178.5 178.5
RE DISCCART 452300.0 4616300.0 178.29 178.29
RE DISCCART 452400.0 4616300.0 178.48 178.48
RE DISCCART 452500.0 4616300.0 178.59 178.59
RE DISCCART 452600.0 4616300.0 178.69 178.69
RE DISCCART 452700.0 4616300.0 178.54 178.54
RE DISCCART 452800.0 4616300.0 178.49 178.49
RE DISCCART 452900.0 4616300.0 178.46 178.46
RE DISCCART 453000.0 4616300.0 178.29 178.29
RE DISCCART 453100.0 4616300.0 178.29 178.29
RE DISCCART 453200.0 4616300.0 178.29 178.29
RE DISCCART 453300.0 4616300.0 178.31 178.31
RE DISCCART 453400.0 4616300.0 178.32 178.32
RE DISCCART 453500.0 4616300.0 179.75 179.75
RE DISCCART 453600.0 4616300.0 178.46 178.46
RE DISCCART 453700.0 4616300.0 178.42 178.42
RE DISCCART 453800.0 4616300.0 178.36 178.36

Phosphorus_2014_OTHER.DTA

RE DISCCART	453900.0	4616300.0	178.37	178.37
RE DISCCART	454000.0	4616300.0	176.29	178.49
RE DISCCART	454100.0	4616300.0	178.19	178.19
RE DISCCART	454200.0	4616300.0	178.19	178.19
RE DISCCART	454300.0	4616300.0	178.19	178.19
RE DISCCART	454400.0	4616300.0	178.41	178.41
RE DISCCART	454500.0	4616300.0	178.22	178.22
RE DISCCART	454600.0	4616300.0	178.19	178.19
RE DISCCART	454700.0	4616300.0	178.19	178.19
RE DISCCART	454800.0	4616300.0	178.19	178.19
RE DISCCART	454900.0	4616300.0	178.19	178.19
RE DISCCART	455000.0	4616300.0	178.19	178.19
RE DISCCART	455100.0	4616300.0	178.19	178.19
RE DISCCART	455200.0	4616300.0	178.19	178.19
RE DISCCART	455300.0	4616300.0	178.19	178.19
RE DISCCART	455400.0	4616300.0	178.39	178.39
RE DISCCART	455500.0	4616300.0	178.45	178.45
RE DISCCART	455600.0	4616300.0	178.28	178.28
RE DISCCART	455700.0	4616300.0	178.19	178.19
RE DISCCART	455800.0	4616300.0	178.19	178.19
RE DISCCART	455900.0	4616300.0	178.19	178.19
RE DISCCART	456000.0	4616300.0	178.19	178.19
RE DISCCART	456100.0	4616300.0	178.27	178.27
RE DISCCART	456200.0	4616300.0	178.26	178.26
RE DISCCART	456300.0	4616300.0	178.36	178.36
RE DISCCART	456400.0	4616300.0	178.16	178.16
RE DISCCART	456500.0	4616300.0	179.46	179.46
RE DISCCART	456600.0	4616300.0	178.6	183.08
RE DISCCART	452000.0	4616400.0	179.2	179.2
RE DISCCART	452100.0	4616400.0	178.87	178.87
RE DISCCART	452200.0	4616400.0	178.45	178.45
RE DISCCART	452300.0	4616400.0	178.29	178.29
RE DISCCART	452400.0	4616400.0	178.59	178.59
RE DISCCART	452500.0	4616400.0	178.8	178.8
RE DISCCART	452600.0	4616400.0	178.84	178.84
RE DISCCART	452700.0	4616400.0	178.86	178.86
RE DISCCART	452800.0	4616400.0	178.91	178.91
RE DISCCART	452900.0	4616400.0	178.64	178.64
RE DISCCART	453000.0	4616400.0	178.29	178.29
RE DISCCART	453100.0	4616400.0	178.29	178.29
RE DISCCART	453200.0	4616400.0	178.5	178.5
RE DISCCART	453300.0	4616400.0	178.83	178.83
RE DISCCART	453400.0	4616400.0	179.19	179.19
RE DISCCART	453500.0	4616400.0	179.76	179.76
RE DISCCART	453600.0	4616400.0	179.88	179.88
RE DISCCART	453700.0	4616400.0	179.48	179.48
RE DISCCART	453800.0	4616400.0	179.42	179.42
RE DISCCART	453900.0	4616400.0	179.17	179.17

Phosphorus_2014_OTHER.DTA

RE DISCCART	454000.0	4616400.0	175.19	175.19
RE DISCCART	454100.0	4616400.0	178.19	178.19
RE DISCCART	454200.0	4616400.0	178.19	178.19
RE DISCCART	454300.0	4616400.0	178.19	178.19
RE DISCCART	454400.0	4616400.0	178.46	178.46
RE DISCCART	454500.0	4616400.0	178.37	178.37
RE DISCCART	454600.0	4616400.0	178.19	178.19
RE DISCCART	454700.0	4616400.0	178.19	178.19
RE DISCCART	454800.0	4616400.0	178.19	178.19
RE DISCCART	454900.0	4616400.0	178.19	178.19
RE DISCCART	455000.0	4616400.0	178.19	178.19
RE DISCCART	455100.0	4616400.0	178.19	178.19
RE DISCCART	455200.0	4616400.0	178.19	178.19
RE DISCCART	455300.0	4616400.0	178.19	178.19
RE DISCCART	455400.0	4616400.0	178.39	178.39
RE DISCCART	455500.0	4616400.0	178.61	178.61
RE DISCCART	455600.0	4616400.0	178.55	178.55
RE DISCCART	455700.0	4616400.0	178.28	178.28
RE DISCCART	455800.0	4616400.0	178.19	178.19
RE DISCCART	455900.0	4616400.0	178.19	178.19
RE DISCCART	456000.0	4616400.0	178.19	178.19
RE DISCCART	456100.0	4616400.0	178.5	178.5
RE DISCCART	456200.0	4616400.0	178.33	178.33
RE DISCCART	456300.0	4616400.0	178.41	178.41
RE DISCCART	456400.0	4616400.0	178.57	178.57
RE DISCCART	456500.0	4616400.0	179.95	179.95
RE DISCCART	456600.0	4616400.0	179.89	183.68
RE DISCCART	452000.0	4616500.0	178.59	178.59
RE DISCCART	452100.0	4616500.0	178.78	178.78
RE DISCCART	452200.0	4616500.0	178.36	178.36
RE DISCCART	452300.0	4616500.0	178.35	178.35
RE DISCCART	452400.0	4616500.0	178.64	178.64
RE DISCCART	452500.0	4616500.0	179.01	179.01
RE DISCCART	452600.0	4616500.0	179.02	179.02
RE DISCCART	452700.0	4616500.0	179.19	179.19
RE DISCCART	452800.0	4616500.0	179.33	179.33
RE DISCCART	452900.0	4616500.0	179.1	179.1
RE DISCCART	453000.0	4616500.0	178.47	178.47
RE DISCCART	453100.0	4616500.0	178.31	178.31
RE DISCCART	453200.0	4616500.0	178.49	178.49
RE DISCCART	453300.0	4616500.0	178.89	178.89
RE DISCCART	453400.0	4616500.0	179.31	179.31
RE DISCCART	453500.0	4616500.0	179.76	179.76
RE DISCCART	453600.0	4616500.0	180.08	180.08
RE DISCCART	453700.0	4616500.0	180.15	180.15
RE DISCCART	453800.0	4616500.0	180.13	180.13
RE DISCCART	453900.0	4616500.0	180.25	180.25
RE DISCCART	454000.0	4616500.0	178.75	179.84

Phosphorus_2014_OTHER.DTA

RE DISCCART 454100.0 4616500.0 176. 176.
RE DISCCART 454200.0 4616500.0 178.19 178.19
RE DISCCART 454300.0 4616500.0 178.19 178.19
RE DISCCART 454400.0 4616500.0 178.45 178.45
RE DISCCART 454500.0 4616500.0 178.5 178.5
RE DISCCART 454600.0 4616500.0 178.19 178.19
RE DISCCART 454700.0 4616500.0 178.19 178.19
RE DISCCART 454800.0 4616500.0 178.19 178.19
RE DISCCART 454900.0 4616500.0 178.19 178.19
RE DISCCART 455000.0 4616500.0 178.19 178.19
RE DISCCART 455100.0 4616500.0 178.19 178.19
RE DISCCART 455200.0 4616500.0 178.36 178.36
RE DISCCART 455300.0 4616500.0 178.29 178.29
RE DISCCART 455400.0 4616500.0 178.52 178.52
RE DISCCART 455500.0 4616500.0 178.78 178.78
RE DISCCART 455600.0 4616500.0 178.84 178.84
RE DISCCART 455700.0 4616500.0 178.52 178.52
RE DISCCART 455800.0 4616500.0 178.22 178.22
RE DISCCART 455900.0 4616500.0 178.23 178.23
RE DISCCART 456000.0 4616500.0 178.19 178.19
RE DISCCART 456100.0 4616500.0 178.33 178.33
RE DISCCART 456200.0 4616500.0 178.21 178.21
RE DISCCART 456300.0 4616500.0 178.06 178.06
RE DISCCART 456400.0 4616500.0 178.04 178.04
RE DISCCART 456500.0 4616500.0 180.46 183.14
RE DISCCART 456600.0 4616500.0 179.28 183.56
RE DISCCART 452000.0 4616600.0 178.2 178.2
RE DISCCART 452100.0 4616600.0 178.69 178.69
RE DISCCART 452200.0 4616600.0 178.31 178.31
RE DISCCART 452300.0 4616600.0 178.39 178.39
RE DISCCART 452400.0 4616600.0 178.7 178.7
RE DISCCART 452500.0 4616600.0 178.95 178.95
RE DISCCART 452600.0 4616600.0 179.15 179.15
RE DISCCART 452700.0 4616600.0 179.37 179.37
RE DISCCART 452800.0 4616600.0 179.58 179.58
RE DISCCART 452900.0 4616600.0 179.64 179.64
RE DISCCART 453000.0 4616600.0 178.79 178.79
RE DISCCART 453100.0 4616600.0 178.29 178.29
RE DISCCART 453200.0 4616600.0 178.46 178.46
RE DISCCART 453300.0 4616600.0 178.79 178.79
RE DISCCART 453400.0 4616600.0 179.29 179.29
RE DISCCART 453500.0 4616600.0 179.75 179.75
RE DISCCART 453600.0 4616600.0 180.04 180.04
RE DISCCART 453700.0 4616600.0 180.32 180.32
RE DISCCART 453800.0 4616600.0 180.02 180.02
RE DISCCART 453900.0 4616600.0 178.48 178.48
RE DISCCART 454000.0 4616600.0 178.27 178.27
RE DISCCART 454100.0 4616600.0 175.49 175.49

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RE DISCCART 454200.0 4616600.0 175.19 175.19
RE DISCCART 454300.0 4616600.0 178.06 178.06
RE DISCCART 454400.0 4616600.0 178.2 178.2
RE DISCCART 454500.0 4616600.0 178.55 178.55
RE DISCCART 454600.0 4616600.0 178.37 178.37
RE DISCCART 454700.0 4616600.0 178.19 178.19
RE DISCCART 454800.0 4616600.0 178.19 178.19
RE DISCCART 454900.0 4616600.0 178.21 178.21
RE DISCCART 455000.0 4616600.0 178.19 178.19
RE DISCCART 455100.0 4616600.0 178.19 178.19
RE DISCCART 455200.0 4616600.0 178.29 178.29
RE DISCCART 455300.0 4616600.0 178.61 178.61
RE DISCCART 455400.0 4616600.0 178.65 178.65
RE DISCCART 455500.0 4616600.0 178.82 178.82
RE DISCCART 455600.0 4616600.0 179. 179.
RE DISCCART 455700.0 4616600.0 178.7 178.7
RE DISCCART 455800.0 4616600.0 178.49 178.49
RE DISCCART 455900.0 4616600.0 178.44 178.44
RE DISCCART 456000.0 4616600.0 178.19 178.19
RE DISCCART 456100.0 4616600.0 178.32 178.32
RE DISCCART 456200.0 4616600.0 178.43 178.43
RE DISCCART 456300.0 4616600.0 178.27 178.27
RE DISCCART 456400.0 4616600.0 178.04 178.04
RE DISCCART 456500.0 4616600.0 180.61 184.67
RE DISCCART 456600.0 4616600.0 178.25 184.89
RE DISCCART 452000.0 4616700.0 178.97 178.97
RE DISCCART 452100.0 4616700.0 178.7 178.7
RE DISCCART 452200.0 4616700.0 178.29 178.29
RE DISCCART 452300.0 4616700.0 178.47 178.47
RE DISCCART 452400.0 4616700.0 178.81 178.81
RE DISCCART 452500.0 4616700.0 179.04 179.04
RE DISCCART 452600.0 4616700.0 179.27 179.27
RE DISCCART 452700.0 4616700.0 179.49 179.49
RE DISCCART 452800.0 4616700.0 179.69 179.69
RE DISCCART 452900.0 4616700.0 179.43 179.43
RE DISCCART 453000.0 4616700.0 178.76 178.76
RE DISCCART 453100.0 4616700.0 178.29 178.29
RE DISCCART 453200.0 4616700.0 178.39 178.39
RE DISCCART 453300.0 4616700.0 178.62 178.62
RE DISCCART 453400.0 4616700.0 179.12 179.12
RE DISCCART 453500.0 4616700.0 179.64 179.64
RE DISCCART 453600.0 4616700.0 179.88 179.88
RE DISCCART 453700.0 4616700.0 180.3 180.3
RE DISCCART 453800.0 4616700.0 180.02 180.02
RE DISCCART 453900.0 4616700.0 178.2 178.2
RE DISCCART 454000.0 4616700.0 178.19 178.19
RE DISCCART 454100.0 4616700.0 178.26 178.26
RE DISCCART 454200.0 4616700.0 178.71 178.71

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RE DISCCART	454300.0	4616700.0	175.55	175.55
RE DISCCART	454400.0	4616700.0	175.19	175.19
RE DISCCART	454500.0	4616700.0	178.32	178.32
RE DISCCART	454600.0	4616700.0	178.52	178.52
RE DISCCART	454700.0	4616700.0	178.31	178.31
RE DISCCART	454800.0	4616700.0	178.19	178.19
RE DISCCART	454900.0	4616700.0	178.37	178.37
RE DISCCART	455000.0	4616700.0	178.21	178.21
RE DISCCART	455100.0	4616700.0	178.19	178.19
RE DISCCART	455200.0	4616700.0	178.2	178.2
RE DISCCART	455300.0	4616700.0	178.65	178.65
RE DISCCART	455400.0	4616700.0	178.8	178.8
RE DISCCART	455500.0	4616700.0	179.04	179.04
RE DISCCART	455600.0	4616700.0	179.15	179.15
RE DISCCART	455700.0	4616700.0	178.93	178.93
RE DISCCART	455800.0	4616700.0	178.72	178.72
RE DISCCART	455900.0	4616700.0	178.29	178.29
RE DISCCART	456000.0	4616700.0	178.19	178.19
RE DISCCART	456100.0	4616700.0	178.18	178.18
RE DISCCART	456200.0	4616700.0	178.38	178.38
RE DISCCART	456300.0	4616700.0	178.24	178.24
RE DISCCART	456400.0	4616700.0	177.87	177.87
RE DISCCART	456500.0	4616700.0	178.37	178.37
RE DISCCART	456600.0	4616700.0	178.65	178.65
RE DISCCART	452000.0	4616800.0	179.14	179.14
RE DISCCART	452100.0	4616800.0	178.59	178.59
RE DISCCART	452200.0	4616800.0	178.29	178.29
RE DISCCART	452300.0	4616800.0	178.56	178.56
RE DISCCART	452400.0	4616800.0	178.89	178.89
RE DISCCART	452500.0	4616800.0	179.16	179.16
RE DISCCART	452600.0	4616800.0	179.41	179.41
RE DISCCART	452700.0	4616800.0	179.68	179.68
RE DISCCART	452800.0	4616800.0	179.63	179.63
RE DISCCART	452900.0	4616800.0	179.31	179.31
RE DISCCART	453000.0	4616800.0	178.79	178.79
RE DISCCART	453100.0	4616800.0	178.58	178.58
RE DISCCART	453200.0	4616800.0	178.29	178.29
RE DISCCART	453300.0	4616800.0	178.45	178.45
RE DISCCART	453400.0	4616800.0	178.89	178.89
RE DISCCART	453500.0	4616800.0	179.42	179.42
RE DISCCART	453600.0	4616800.0	179.82	179.82
RE DISCCART	453700.0	4616800.0	180.06	180.06
RE DISCCART	453800.0	4616800.0	178.96	178.96
RE DISCCART	453900.0	4616800.0	178.28	178.28
RE DISCCART	454000.0	4616800.0	178.17	178.17
RE DISCCART	454100.0	4616800.0	178.18	178.18
RE DISCCART	454200.0	4616800.0	178.22	178.22
RE DISCCART	454300.0	4616800.0	178.18	178.18

Phosphorus_2014_OTHER.DTA

RE DISCCART	454400.0	4616800.0	179.12	179.12
RE DISCCART	454500.0	4616800.0	175.19	178.46
RE DISCCART	454600.0	4616800.0	179.02	179.02
RE DISCCART	454700.0	4616800.0	179.08	179.08
RE DISCCART	454800.0	4616800.0	178.19	178.19
RE DISCCART	454900.0	4616800.0	178.35	178.35
RE DISCCART	455000.0	4616800.0	178.41	178.41
RE DISCCART	455100.0	4616800.0	178.19	178.19
RE DISCCART	455200.0	4616800.0	178.2	178.2
RE DISCCART	455300.0	4616800.0	178.54	178.54
RE DISCCART	455400.0	4616800.0	178.88	178.88
RE DISCCART	455500.0	4616800.0	179.11	179.11
RE DISCCART	455600.0	4616800.0	179.28	179.28
RE DISCCART	455700.0	4616800.0	179.11	179.11
RE DISCCART	455800.0	4616800.0	178.95	178.95
RE DISCCART	455900.0	4616800.0	178.45	178.45
RE DISCCART	456000.0	4616800.0	178.19	178.19
RE DISCCART	456100.0	4616800.0	178.26	178.26
RE DISCCART	456200.0	4616800.0	178.6	178.6
RE DISCCART	456300.0	4616800.0	178.44	178.44
RE DISCCART	456400.0	4616800.0	178.12	178.12
RE DISCCART	456500.0	4616800.0	178.7	178.7
RE DISCCART	456600.0	4616800.0	178.86	178.86
RE DISCCART	452000.0	4616900.0	178.85	178.85
RE DISCCART	452100.0	4616900.0	178.4	178.4
RE DISCCART	452200.0	4616900.0	178.32	178.32
RE DISCCART	452300.0	4616900.0	178.7	178.7
RE DISCCART	452400.0	4616900.0	179.	179.
RE DISCCART	452500.0	4616900.0	179.31	179.31
RE DISCCART	452600.0	4616900.0	179.58	179.58
RE DISCCART	452700.0	4616900.0	179.69	179.69
RE DISCCART	452800.0	4616900.0	179.48	179.48
RE DISCCART	452900.0	4616900.0	179.18	179.18
RE DISCCART	453000.0	4616900.0	179.08	179.08
RE DISCCART	453100.0	4616900.0	178.67	178.67
RE DISCCART	453200.0	4616900.0	178.34	178.34
RE DISCCART	453300.0	4616900.0	178.31	178.31
RE DISCCART	453400.0	4616900.0	178.67	178.67
RE DISCCART	453500.0	4616900.0	178.78	178.78
RE DISCCART	453600.0	4616900.0	179.27	179.27
RE DISCCART	453700.0	4616900.0	178.24	178.24
RE DISCCART	453800.0	4616900.0	178.19	178.19
RE DISCCART	453900.0	4616900.0	178.19	178.19
RE DISCCART	454000.0	4616900.0	178.2	178.2
RE DISCCART	454100.0	4616900.0	178.19	178.19
RE DISCCART	454200.0	4616900.0	178.19	178.19
RE DISCCART	454300.0	4616900.0	178.2	178.2
RE DISCCART	454400.0	4616900.0	178.35	178.35

Phosphorus_2014_OTHER.DTA

RE DISCCART 454500.0 4616900.0 180.77 182.17
RE DISCCART 454600.0 4616900.0 176.26 182.22
RE DISCCART 454700.0 4616900.0 179.53 179.53
RE DISCCART 454800.0 4616900.0 178.19 178.19
RE DISCCART 454900.0 4616900.0 178.19 178.19
RE DISCCART 455000.0 4616900.0 178.33 178.33
RE DISCCART 455100.0 4616900.0 178.22 178.22
RE DISCCART 455200.0 4616900.0 178.2 178.2
RE DISCCART 455300.0 4616900.0 178.61 178.61
RE DISCCART 455400.0 4616900.0 178.77 178.77
RE DISCCART 455500.0 4616900.0 179.2 179.2
RE DISCCART 455600.0 4616900.0 179.39 179.39
RE DISCCART 455700.0 4616900.0 179.21 179.21
RE DISCCART 455800.0 4616900.0 179.06 179.06
RE DISCCART 455900.0 4616900.0 178.52 178.52
RE DISCCART 456000.0 4616900.0 178.32 178.32
RE DISCCART 456100.0 4616900.0 178.86 178.86
RE DISCCART 456200.0 4616900.0 179.3 179.3
RE DISCCART 456300.0 4616900.0 179.34 179.34
RE DISCCART 456400.0 4616900.0 179.1 179.1
RE DISCCART 456500.0 4616900.0 179.26 179.26
RE DISCCART 456600.0 4616900.0 178.74 178.74
RE DISCCART 452000.0 4617000.0 178.3 178.3
RE DISCCART 452100.0 4617000.0 178.29 178.29
RE DISCCART 452200.0 4617000.0 178.56 178.56
RE DISCCART 452300.0 4617000.0 178.88 178.88
RE DISCCART 452400.0 4617000.0 179.19 179.19
RE DISCCART 452500.0 4617000.0 179.49 179.49
RE DISCCART 452600.0 4617000.0 179.69 179.69
RE DISCCART 452700.0 4617000.0 179.6 179.6
RE DISCCART 452800.0 4617000.0 179.39 179.39
RE DISCCART 452900.0 4617000.0 179.34 179.34
RE DISCCART 453000.0 4617000.0 179.02 179.02
RE DISCCART 453100.0 4617000.0 178.61 178.61
RE DISCCART 453200.0 4617000.0 178.37 178.37
RE DISCCART 453300.0 4617000.0 178.29 178.29
RE DISCCART 453400.0 4617000.0 178.56 178.56
RE DISCCART 453500.0 4617000.0 178.2 178.2
RE DISCCART 453600.0 4617000.0 178.91 178.91
RE DISCCART 453700.0 4617000.0 179.07 179.07
RE DISCCART 453800.0 4617000.0 178.51 178.51
RE DISCCART 453900.0 4617000.0 178.21 178.21
RE DISCCART 454000.0 4617000.0 178.2 178.2
RE DISCCART 454100.0 4617000.0 178.21 178.21
RE DISCCART 454200.0 4617000.0 178.22 178.22
RE DISCCART 454300.0 4617000.0 178.72 178.72
RE DISCCART 454400.0 4617000.0 179.7 179.7
RE DISCCART 454500.0 4617000.0 178.56 178.56

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RE DISCCART	454600.0	4617000.0	175.19	175.19
RE DISCCART	454700.0	4617000.0	178.58	178.58
RE DISCCART	454800.0	4617000.0	178.19	178.19
RE DISCCART	454900.0	4617000.0	178.19	178.19
RE DISCCART	455000.0	4617000.0	178.22	178.22
RE DISCCART	455100.0	4617000.0	178.41	178.41
RE DISCCART	455200.0	4617000.0	178.69	178.69
RE DISCCART	455300.0	4617000.0	178.7	178.7
RE DISCCART	455400.0	4617000.0	178.8	178.8
RE DISCCART	455500.0	4617000.0	179.11	179.11
RE DISCCART	455600.0	4617000.0	179.41	179.41
RE DISCCART	455700.0	4617000.0	179.34	179.34
RE DISCCART	455800.0	4617000.0	179.09	179.09
RE DISCCART	455900.0	4617000.0	178.72	178.72
RE DISCCART	456000.0	4617000.0	178.32	178.32
RE DISCCART	456100.0	4617000.0	178.64	178.64
RE DISCCART	456200.0	4617000.0	178.74	178.74
RE DISCCART	456300.0	4617000.0	179.47	186.69
RE DISCCART	456400.0	4617000.0	179.52	179.52
RE DISCCART	456500.0	4617000.0	179.55	179.55
RE DISCCART	456600.0	4617000.0	179.13	179.13
RE DISCCART	452000.0	4617100.0	178.87	178.87
RE DISCCART	452100.0	4617100.0	178.6	178.6
RE DISCCART	452200.0	4617100.0	178.95	178.95
RE DISCCART	452300.0	4617100.0	179.13	179.13
RE DISCCART	452400.0	4617100.0	179.38	179.38
RE DISCCART	452500.0	4617100.0	179.65	179.65
RE DISCCART	452600.0	4617100.0	179.68	179.68
RE DISCCART	452700.0	4617100.0	179.49	179.49
RE DISCCART	452800.0	4617100.0	179.39	179.39
RE DISCCART	452900.0	4617100.0	179.22	179.22
RE DISCCART	453000.0	4617100.0	178.81	178.81
RE DISCCART	453100.0	4617100.0	178.58	178.58
RE DISCCART	453200.0	4617100.0	178.54	178.54
RE DISCCART	453300.0	4617100.0	178.29	178.29
RE DISCCART	453400.0	4617100.0	178.45	178.45
RE DISCCART	453500.0	4617100.0	178.21	178.21
RE DISCCART	453600.0	4617100.0	178.49	178.49
RE DISCCART	453700.0	4617100.0	178.87	178.87
RE DISCCART	453800.0	4617100.0	178.7	178.7
RE DISCCART	453900.0	4617100.0	178.49	178.49
RE DISCCART	454000.0	4617100.0	178.19	178.19
RE DISCCART	454100.0	4617100.0	178.16	178.16
RE DISCCART	454200.0	4617100.0	178.42	178.42
RE DISCCART	454300.0	4617100.0	178.95	178.95
RE DISCCART	454400.0	4617100.0	179.13	179.13
RE DISCCART	454500.0	4617100.0	178.28	178.28
RE DISCCART	454600.0	4617100.0	175.19	175.19

Phosphorus_2014_OTHER.DTA

RE DISCCART 454700.0 4617100.0 178.19 178.19
RE DISCCART 454800.0 4617100.0 178.2 178.2
RE DISCCART 454900.0 4617100.0 178.19 178.19
RE DISCCART 455000.0 4617100.0 178.19 178.19
RE DISCCART 455100.0 4617100.0 178.37 178.37
RE DISCCART 455200.0 4617100.0 178.76 178.76
RE DISCCART 455300.0 4617100.0 179.04 179.04
RE DISCCART 455400.0 4617100.0 179.16 179.16
RE DISCCART 455500.0 4617100.0 179.29 179.29
RE DISCCART 455600.0 4617100.0 179.39 179.39
RE DISCCART 455700.0 4617100.0 179.4 179.4
RE DISCCART 455800.0 4617100.0 179.11 179.11
RE DISCCART 455900.0 4617100.0 178.95 178.95
RE DISCCART 456000.0 4617100.0 178.38 178.38
RE DISCCART 456100.0 4617100.0 178.58 178.58
RE DISCCART 456200.0 4617100.0 178.66 187.12
RE DISCCART 456300.0 4617100.0 181.14 187.12
RE DISCCART 456400.0 4617100.0 179.17 179.17
RE DISCCART 456500.0 4617100.0 179.64 179.64
RE DISCCART 456600.0 4617100.0 180.14 180.14
RE DISCCART 452000.0 4617200.0 179.33 179.33
RE DISCCART 452100.0 4617200.0 179.12 179.12
RE DISCCART 452200.0 4617200.0 179.3 179.3
RE DISCCART 452300.0 4617200.0 179.4 179.4
RE DISCCART 452400.0 4617200.0 179.55 179.55
RE DISCCART 452500.0 4617200.0 179.69 179.69
RE DISCCART 452600.0 4617200.0 179.59 179.59
RE DISCCART 452700.0 4617200.0 179.59 179.59
RE DISCCART 452800.0 4617200.0 179.36 179.36
RE DISCCART 452900.0 4617200.0 179.11 179.11
RE DISCCART 453000.0 4617200.0 179. 179.
RE DISCCART 453100.0 4617200.0 178.71 178.71
RE DISCCART 453200.0 4617200.0 178.37 178.37
RE DISCCART 453300.0 4617200.0 178.35 178.35
RE DISCCART 453400.0 4617200.0 178.77 178.77
RE DISCCART 453500.0 4617200.0 178.19 178.19
RE DISCCART 453600.0 4617200.0 178.35 178.35
RE DISCCART 453700.0 4617200.0 178.73 178.73
RE DISCCART 453800.0 4617200.0 178.73 178.73
RE DISCCART 453900.0 4617200.0 178.4 178.4
RE DISCCART 454000.0 4617200.0 176.92 176.92
RE DISCCART 454100.0 4617200.0 176.84 176.84
RE DISCCART 454200.0 4617200.0 176.92 176.92
RE DISCCART 454300.0 4617200.0 177.04 177.04
RE DISCCART 454400.0 4617200.0 177.07 177.07
RE DISCCART 454500.0 4617200.0 176.83 176.83
RE DISCCART 454600.0 4617200.0 175.19 175.19
RE DISCCART 454700.0 4617200.0 178.19 178.19

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RE DISCCART	454800.0	4617200.0	178.19	178.19
RE DISCCART	454900.0	4617200.0	178.19	178.19
RE DISCCART	455000.0	4617200.0	178.19	178.19
RE DISCCART	455100.0	4617200.0	178.21	178.21
RE DISCCART	455200.0	4617200.0	178.78	178.78
RE DISCCART	455300.0	4617200.0	179.17	179.17
RE DISCCART	455400.0	4617200.0	179.32	179.32
RE DISCCART	455500.0	4617200.0	179.55	179.55
RE DISCCART	455600.0	4617200.0	179.58	179.58
RE DISCCART	455700.0	4617200.0	179.5	179.5
RE DISCCART	455800.0	4617200.0	179.36	179.36
RE DISCCART	455900.0	4617200.0	179.13	179.13
RE DISCCART	456000.0	4617200.0	178.45	178.45
RE DISCCART	456100.0	4617200.0	178.67	186.29
RE DISCCART	456200.0	4617200.0	184.82	186.47
RE DISCCART	456300.0	4617200.0	180.47	180.47
RE DISCCART	456400.0	4617200.0	179.5	179.5
RE DISCCART	456500.0	4617200.0	180.65	180.65
RE DISCCART	456600.0	4617200.0	179.3	179.3
RE DISCCART	452000.0	4617300.0	180.38	180.38
RE DISCCART	452100.0	4617300.0	180.24	180.24
RE DISCCART	452200.0	4617300.0	179.66	179.66
RE DISCCART	452300.0	4617300.0	179.57	179.57
RE DISCCART	452400.0	4617300.0	179.69	179.69
RE DISCCART	452500.0	4617300.0	179.91	179.91
RE DISCCART	452600.0	4617300.0	179.99	179.99
RE DISCCART	452700.0	4617300.0	179.62	179.62
RE DISCCART	452800.0	4617300.0	179.49	179.49
RE DISCCART	452900.0	4617300.0	179.19	179.19
RE DISCCART	453000.0	4617300.0	178.8	178.8
RE DISCCART	453100.0	4617300.0	178.51	178.51
RE DISCCART	453200.0	4617300.0	178.34	178.34
RE DISCCART	453300.0	4617300.0	178.37	178.37
RE DISCCART	453400.0	4617300.0	179.31	179.31
RE DISCCART	453500.0	4617300.0	178.81	178.81
RE DISCCART	453600.0	4617300.0	178.62	178.62
RE DISCCART	453700.0	4617300.0	178.59	178.59
RE DISCCART	453800.0	4617300.0	178.29	178.29
RE DISCCART	453900.0	4617300.0	178.19	178.19
RE DISCCART	454000.0	4617300.0	178.28	178.28
RE DISCCART	454100.0	4617300.0	178.25	178.25
RE DISCCART	454200.0	4617300.0	178.19	178.19
RE DISCCART	454300.0	4617300.0	178.19	178.19
RE DISCCART	454400.0	4617300.0	178.19	178.19
RE DISCCART	454500.0	4617300.0	178.19	178.19
RE DISCCART	454600.0	4617300.0	175.19	175.19
RE DISCCART	454700.0	4617300.0	178.19	178.19
RE DISCCART	454800.0	4617300.0	178.19	178.19

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RE DISCCART	454900.0	4617300.0	178.19	178.19
RE DISCCART	455000.0	4617300.0	178.19	178.19
RE DISCCART	455100.0	4617300.0	178.19	178.19
RE DISCCART	455200.0	4617300.0	178.44	178.44
RE DISCCART	455300.0	4617300.0	178.92	178.92
RE DISCCART	455400.0	4617300.0	179.23	179.23
RE DISCCART	455500.0	4617300.0	179.49	179.49
RE DISCCART	455600.0	4617300.0	179.73	179.73
RE DISCCART	455700.0	4617300.0	179.7	179.7
RE DISCCART	455800.0	4617300.0	179.6	179.6
RE DISCCART	455900.0	4617300.0	179.35	179.35
RE DISCCART	456000.0	4617300.0	178.78	178.78
RE DISCCART	456100.0	4617300.0	182.07	182.07
RE DISCCART	456200.0	4617300.0	179.87	179.87
RE DISCCART	456300.0	4617300.0	179.81	179.81
RE DISCCART	456400.0	4617300.0	180.77	180.77
RE DISCCART	456500.0	4617300.0	179.43	179.43
RE DISCCART	456600.0	4617300.0	178.38	178.38
RE DISCCART	449000.0	4609000.0	183.39	183.39
RE DISCCART	449500.0	4609000.0	184.04	184.04
RE DISCCART	450000.0	4609000.0	184.29	184.29
RE DISCCART	450500.0	4609000.0	182.94	182.94
RE DISCCART	451000.0	4609000.0	180.31	180.31
RE DISCCART	451500.0	4609000.0	179.59	179.59
RE DISCCART	452000.0	4609000.0	179.19	179.19
RE DISCCART	452500.0	4609000.0	178.97	178.97
RE DISCCART	453000.0	4609000.0	178.38	178.38
RE DISCCART	453500.0	4609000.0	178.19	178.19
RE DISCCART	454000.0	4609000.0	178.19	178.19
RE DISCCART	454500.0	4609000.0	178.27	178.27
RE DISCCART	455000.0	4609000.0	178.85	178.85
RE DISCCART	455500.0	4609000.0	178.57	178.57
RE DISCCART	456000.0	4609000.0	178.11	178.11
RE DISCCART	456500.0	4609000.0	178.93	178.93
RE DISCCART	457000.0	4609000.0	179.27	179.27
RE DISCCART	457500.0	4609000.0	178.7	178.7
RE DISCCART	458000.0	4609000.0	178.44	178.44
RE DISCCART	458500.0	4609000.0	178.47	178.47
RE DISCCART	459000.0	4609000.0	178.65	178.65
RE DISCCART	459500.0	4609000.0	178.02	178.02
RE DISCCART	460000.0	4609000.0	178.48	178.48
RE DISCCART	449000.0	4609500.0	182.79	182.79
RE DISCCART	449500.0	4609500.0	183.99	183.99
RE DISCCART	450000.0	4609500.0	182.36	182.36
RE DISCCART	450500.0	4609500.0	179.44	179.44
RE DISCCART	451000.0	4609500.0	179.07	179.07
RE DISCCART	451500.0	4609500.0	178.52	178.52
RE DISCCART	452000.0	4609500.0	179.62	179.62

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RE DISCCART 452500.0 4609500.0 178.25 178.25
RE DISCCART 453000.0 4609500.0 178.19 178.19
RE DISCCART 453500.0 4609500.0 180.93 180.93
RE DISCCART 454000.0 4609500.0 178.19 178.19
RE DISCCART 454500.0 4609500.0 178.4 178.4
RE DISCCART 455000.0 4609500.0 178.19 178.19
RE DISCCART 455500.0 4609500.0 178.22 178.22
RE DISCCART 456000.0 4609500.0 178.42 178.42
RE DISCCART 456500.0 4609500.0 178.99 178.99
RE DISCCART 457000.0 4609500.0 178.92 178.92
RE DISCCART 457500.0 4609500.0 178.27 178.27
RE DISCCART 458000.0 4609500.0 179.36 179.36
RE DISCCART 458500.0 4609500.0 179.41 179.41
RE DISCCART 459000.0 4609500.0 179.02 179.02
RE DISCCART 459500.0 4609500.0 178.22 178.22
RE DISCCART 460000.0 4609500.0 178.54 178.54
RE DISCCART 449000.0 4610000.0 183.07 183.07
RE DISCCART 449500.0 4610000.0 181.97 181.97
RE DISCCART 450000.0 4610000.0 180.16 180.16
RE DISCCART 450500.0 4610000.0 179.64 179.64
RE DISCCART 451000.0 4610000.0 179. 179.
RE DISCCART 451500.0 4610000.0 179.29 179.29
RE DISCCART 452000.0 4610000.0 176.99 176.99
RE DISCCART 452500.0 4610000.0 180.55 221.91
RE DISCCART 453000.0 4610000.0 176.99 221.91
RE DISCCART 453500.0 4610000.0 178.72 178.72
RE DISCCART 454000.0 4610000.0 178.19 178.19
RE DISCCART 454500.0 4610000.0 178.19 178.19
RE DISCCART 455000.0 4610000.0 178.4 178.4
RE DISCCART 455500.0 4610000.0 178.19 178.19
RE DISCCART 456000.0 4610000.0 178.48 178.48
RE DISCCART 456500.0 4610000.0 178.53 178.53
RE DISCCART 457000.0 4610000.0 178.43 178.43
RE DISCCART 457500.0 4610000.0 177.87 177.87
RE DISCCART 458000.0 4610000.0 178.05 178.05
RE DISCCART 458500.0 4610000.0 178.35 178.35
RE DISCCART 459000.0 4610000.0 178.33 178.33
RE DISCCART 459500.0 4610000.0 179.39 179.39
RE DISCCART 460000.0 4610000.0 178.51 178.51
RE DISCCART 449000.0 4610500.0 182.7 182.7
RE DISCCART 449500.0 4610500.0 179.77 179.77
RE DISCCART 450000.0 4610500.0 178.81 183.91
RE DISCCART 450500.0 4610500.0 180.53 197.07
RE DISCCART 451000.0 4610500.0 178.61 178.61
RE DISCCART 451500.0 4610500.0 178.49 178.49
RE DISCCART 452000.0 4610500.0 180.65 180.65
RE DISCCART 452500.0 4610500.0 178.06 221.91
RE DISCCART 453000.0 4610500.0 178.46 221.91

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RE DISCCART	453500.0	4610500.0	178.48	178.48
RE DISCCART	454000.0	4610500.0	178.19	178.19
RE DISCCART	454500.0	4610500.0	178.28	178.28
RE DISCCART	455000.0	4610500.0	179.05	179.05
RE DISCCART	455500.0	4610500.0	178.19	178.19
RE DISCCART	456000.0	4610500.0	177.67	177.67
RE DISCCART	456500.0	4610500.0	178.31	178.31
RE DISCCART	457000.0	4610500.0	178.1	178.1
RE DISCCART	457500.0	4610500.0	179.27	179.27
RE DISCCART	458000.0	4610500.0	177.49	177.49
RE DISCCART	458500.0	4610500.0	178.63	178.63
RE DISCCART	459000.0	4610500.0	176.33	176.33
RE DISCCART	459500.0	4610500.0	178.92	178.92
RE DISCCART	460000.0	4610500.0	178.62	178.62
RE DISCCART	449000.0	4611000.0	180.32	180.32
RE DISCCART	449500.0	4611000.0	178.27	178.27
RE DISCCART	450000.0	4611000.0	176.99	176.99
RE DISCCART	450500.0	4611000.0	176.99	198.94
RE DISCCART	451000.0	4611000.0	182.81	185.06
RE DISCCART	451500.0	4611000.0	178.47	178.47
RE DISCCART	452000.0	4611000.0	195.12	196.88
RE DISCCART	452500.0	4611000.0	179.48	179.48
RE DISCCART	453000.0	4611000.0	176.99	176.99
RE DISCCART	453500.0	4611000.0	178.19	178.19
RE DISCCART	454000.0	4611000.0	178.19	178.19
RE DISCCART	454500.0	4611000.0	178.61	178.61
RE DISCCART	455000.0	4611000.0	178.19	178.19
RE DISCCART	455500.0	4611000.0	178.19	178.19
RE DISCCART	456000.0	4611000.0	178.7	178.7
RE DISCCART	456500.0	4611000.0	177.96	177.96
RE DISCCART	457000.0	4611000.0	178.59	178.59
RE DISCCART	457500.0	4611000.0	178.8	178.8
RE DISCCART	458000.0	4611000.0	178.78	178.78
RE DISCCART	458500.0	4611000.0	178.95	178.95
RE DISCCART	459000.0	4611000.0	178.27	178.27
RE DISCCART	459500.0	4611000.0	179.87	179.87
RE DISCCART	460000.0	4611000.0	178.26	178.26
RE DISCCART	449000.0	4611500.0	179.88	179.88
RE DISCCART	449500.0	4611500.0	179.05	179.05
RE DISCCART	450000.0	4611500.0	178.6	178.6
RE DISCCART	450500.0	4611500.0	178.39	178.39
RE DISCCART	451000.0	4611500.0	178.09	178.09
RE DISCCART	451500.0	4611500.0	180.6	225.36
RE DISCCART	452000.0	4611500.0	211.82	211.82
RE DISCCART	452500.0	4611500.0	179.	179.
RE DISCCART	453000.0	4611500.0	178.19	178.19
RE DISCCART	453500.0	4611500.0	178.19	178.19
RE DISCCART	454000.0	4611500.0	180.79	180.79

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RE DISCCART	454500.0	4611500.0	178.45	178.45
RE DISCCART	455000.0	4611500.0	178.19	178.19
RE DISCCART	455500.0	4611500.0	178.61	178.61
RE DISCCART	456000.0	4611500.0	179.87	179.87
RE DISCCART	456500.0	4611500.0	178.66	178.66
RE DISCCART	457000.0	4611500.0	178.36	178.36
RE DISCCART	457500.0	4611500.0	178.23	178.23
RE DISCCART	458000.0	4611500.0	179.4	179.4
RE DISCCART	458500.0	4611500.0	179.85	179.85
RE DISCCART	459000.0	4611500.0	179.46	179.46
RE DISCCART	459500.0	4611500.0	179.19	179.19
RE DISCCART	460000.0	4611500.0	179.52	183.95
RE DISCCART	449000.0	4612000.0	179.69	179.69
RE DISCCART	449500.0	4612000.0	179.49	179.49
RE DISCCART	450000.0	4612000.0	179.38	179.38
RE DISCCART	450500.0	4612000.0	178.34	178.34
RE DISCCART	451000.0	4612000.0	182.39	182.39
RE DISCCART	451500.0	4612000.0	182.37	225.05
RE DISCCART	452000.0	4612000.0	181.49	225.36
RE DISCCART	452500.0	4612000.0	184.12	184.12
RE DISCCART	453000.0	4612000.0	184.95	184.95
RE DISCCART	453500.0	4612000.0	178.57	178.57
RE DISCCART	454000.0	4612000.0	180.49	180.49
RE DISCCART	454500.0	4612000.0	178.19	178.19
RE DISCCART	455000.0	4612000.0	178.19	178.19
RE DISCCART	455500.0	4612000.0	178.54	178.54
RE DISCCART	456000.0	4612000.0	177.55	177.55
RE DISCCART	456500.0	4612000.0	178.45	178.45
RE DISCCART	457000.0	4612000.0	187.07	187.07
RE DISCCART	457500.0	4612000.0	178.9	178.9
RE DISCCART	458000.0	4612000.0	180.18	180.18
RE DISCCART	458500.0	4612000.0	181.27	181.27
RE DISCCART	459000.0	4612000.0	179.48	179.48
RE DISCCART	459500.0	4612000.0	179.18	179.18
RE DISCCART	460000.0	4612000.0	179.39	179.39
RE DISCCART	449000.0	4612500.0	179.7	179.7
RE DISCCART	449500.0	4612500.0	179.59	179.59
RE DISCCART	450000.0	4612500.0	179.77	179.77
RE DISCCART	450500.0	4612500.0	178.49	178.49
RE DISCCART	451000.0	4612500.0	179.71	179.71
RE DISCCART	451500.0	4612500.0	178.63	178.63
RE DISCCART	457000.0	4612500.0	179.	179.
RE DISCCART	457500.0	4612500.0	179.42	179.42
RE DISCCART	458000.0	4612500.0	188.17	188.17
RE DISCCART	458500.0	4612500.0	183.15	183.15
RE DISCCART	459000.0	4612500.0	178.08	178.08
RE DISCCART	459500.0	4612500.0	178.89	178.89
RE DISCCART	460000.0	4612500.0	180.61	180.61

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RE DISCCART	449000.0	4613000.0	179.78	179.78
RE DISCCART	449500.0	4613000.0	178.49	178.49
RE DISCCART	450000.0	4613000.0	179.65	179.65
RE DISCCART	450500.0	4613000.0	178.49	178.49
RE DISCCART	451000.0	4613000.0	175.19	175.19
RE DISCCART	451500.0	4613000.0	178.29	178.29
RE DISCCART	457000.0	4613000.0	177.09	177.09
RE DISCCART	457500.0	4613000.0	178.28	178.28
RE DISCCART	458000.0	4613000.0	176.93	176.93
RE DISCCART	458500.0	4613000.0	177.27	177.27
RE DISCCART	459000.0	4613000.0	178.45	178.45
RE DISCCART	459500.0	4613000.0	178.96	178.96
RE DISCCART	460000.0	4613000.0	179.67	179.67
RE DISCCART	449000.0	4613500.0	181.28	181.28
RE DISCCART	449500.0	4613500.0	179.69	179.69
RE DISCCART	450000.0	4613500.0	179.19	179.19
RE DISCCART	450500.0	4613500.0	178.29	178.29
RE DISCCART	451000.0	4613500.0	177.27	178.48
RE DISCCART	451500.0	4613500.0	178.39	178.39
RE DISCCART	457000.0	4613500.0	177.09	177.09
RE DISCCART	457500.0	4613500.0	177.09	177.09
RE DISCCART	458000.0	4613500.0	176.95	176.95
RE DISCCART	458500.0	4613500.0	180.9	180.9
RE DISCCART	459000.0	4613500.0	178.18	178.18
RE DISCCART	459500.0	4613500.0	179.99	179.99
RE DISCCART	460000.0	4613500.0	179.91	179.91
RE DISCCART	449000.0	4614000.0	182.54	182.54
RE DISCCART	449500.0	4614000.0	179.72	179.72
RE DISCCART	450000.0	4614000.0	178.74	178.74
RE DISCCART	450500.0	4614000.0	175.19	175.19
RE DISCCART	451000.0	4614000.0	175.19	175.19
RE DISCCART	451500.0	4614000.0	178.29	178.29
RE DISCCART	457000.0	4614000.0	177.09	177.09
RE DISCCART	457500.0	4614000.0	177.85	177.85
RE DISCCART	458000.0	4614000.0	177.94	177.94
RE DISCCART	458500.0	4614000.0	177.86	177.86
RE DISCCART	459000.0	4614000.0	178.75	178.75
RE DISCCART	459500.0	4614000.0	180.26	180.26
RE DISCCART	460000.0	4614000.0	179.27	179.27
RE DISCCART	449000.0	4614500.0	180.54	180.54
RE DISCCART	449500.0	4614500.0	179.65	179.65
RE DISCCART	450000.0	4614500.0	178.29	178.29
RE DISCCART	450500.0	4614500.0	175.19	175.19
RE DISCCART	451000.0	4614500.0	175.19	175.19
RE DISCCART	451500.0	4614500.0	177.32	177.32
RE DISCCART	457000.0	4614500.0	177.09	177.09
RE DISCCART	457500.0	4614500.0	177.65	177.65
RE DISCCART	458000.0	4614500.0	178.39	178.39

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RE DISCCART	458500.0	4614500.0	178.24	178.24
RE DISCCART	459000.0	4614500.0	179.16	179.16
RE DISCCART	459500.0	4614500.0	180.73	180.73
RE DISCCART	460000.0	4614500.0	175.54	175.54
RE DISCCART	449000.0	4615000.0	182.59	182.59
RE DISCCART	449500.0	4615000.0	179.69	179.69
RE DISCCART	450000.0	4615000.0	178.7	178.7
RE DISCCART	450500.0	4615000.0	178.29	178.29
RE DISCCART	451000.0	4615000.0	175.19	175.19
RE DISCCART	451500.0	4615000.0	175.19	175.19
RE DISCCART	457000.0	4615000.0	177.09	177.09
RE DISCCART	457500.0	4615000.0	177.74	177.74
RE DISCCART	458000.0	4615000.0	178.06	178.06
RE DISCCART	458500.0	4615000.0	178.77	178.77
RE DISCCART	459000.0	4615000.0	175.54	175.54
RE DISCCART	459500.0	4615000.0	175.54	175.54
RE DISCCART	460000.0	4615000.0	175.54	175.54
RE DISCCART	449000.0	4615500.0	181.36	181.36
RE DISCCART	449500.0	4615500.0	179.54	179.54
RE DISCCART	450000.0	4615500.0	178.59	178.59
RE DISCCART	450500.0	4615500.0	180.56	183.03
RE DISCCART	451000.0	4615500.0	178.29	178.29
RE DISCCART	451500.0	4615500.0	175.49	175.49
RE DISCCART	457000.0	4615500.0	178.48	178.48
RE DISCCART	457500.0	4615500.0	178.16	178.16
RE DISCCART	458000.0	4615500.0	179.33	179.33
RE DISCCART	458500.0	4615500.0	175.54	175.54
RE DISCCART	459000.0	4615500.0	175.54	175.54
RE DISCCART	459500.0	4615500.0	175.54	175.54
RE DISCCART	460000.0	4615500.0	175.23	175.23
RE DISCCART	449000.0	4616000.0	181.66	181.66
RE DISCCART	449500.0	4616000.0	180.79	180.79
RE DISCCART	450000.0	4616000.0	179.31	179.31
RE DISCCART	450500.0	4616000.0	184.68	184.68
RE DISCCART	451000.0	4616000.0	185.29	185.29
RE DISCCART	451500.0	4616000.0	176.55	178.43
RE DISCCART	457000.0	4616000.0	178.64	185.35
RE DISCCART	457500.0	4616000.0	179.75	179.75
RE DISCCART	458000.0	4616000.0	175.54	175.54
RE DISCCART	458500.0	4616000.0	175.54	175.54
RE DISCCART	459000.0	4616000.0	175.53	175.53
RE DISCCART	459500.0	4616000.0	175.19	175.19
RE DISCCART	460000.0	4616000.0	175.19	175.19
RE DISCCART	449000.0	4616500.0	182.19	182.19
RE DISCCART	449500.0	4616500.0	181.91	181.91
RE DISCCART	450000.0	4616500.0	179.29	179.29
RE DISCCART	450500.0	4616500.0	179.57	179.57
RE DISCCART	451000.0	4616500.0	191.5	191.5

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RE DISCCART 451500.0 4616500.0 194. 194.
RE DISCCART 457000.0 4616500.0 179.22 179.22
RE DISCCART 457500.0 4616500.0 175.54 175.54
RE DISCCART 458000.0 4616500.0 175.54 175.54
RE DISCCART 458500.0 4616500.0 175.4 175.4
RE DISCCART 459000.0 4616500.0 175.19 175.19
RE DISCCART 459500.0 4616500.0 175.19 175.19
RE DISCCART 460000.0 4616500.0 175.19 175.19
RE DISCCART 449000.0 4617000.0 182.05 182.05
RE DISCCART 449500.0 4617000.0 182.45 182.45
RE DISCCART 450000.0 4617000.0 179.91 179.91
RE DISCCART 450500.0 4617000.0 180.45 180.45
RE DISCCART 451000.0 4617000.0 184.01 185.93
RE DISCCART 451500.0 4617000.0 183.08 183.08
RE DISCCART 457000.0 4617000.0 178.93 178.93
RE DISCCART 457500.0 4617000.0 175.54 175.54
RE DISCCART 458000.0 4617000.0 175.29 175.29
RE DISCCART 458500.0 4617000.0 175.19 175.19
RE DISCCART 459000.0 4617000.0 175.19 175.19
RE DISCCART 459500.0 4617000.0 175.19 175.19
RE DISCCART 460000.0 4617000.0 175.19 175.19
RE DISCCART 449000.0 4617500.0 181.75 181.75
RE DISCCART 449500.0 4617500.0 182.79 182.79
RE DISCCART 450000.0 4617500.0 180.89 180.89
RE DISCCART 450500.0 4617500.0 179.74 179.74
RE DISCCART 451000.0 4617500.0 179.68 179.68
RE DISCCART 451500.0 4617500.0 178.94 178.94
RE DISCCART 452000.0 4617500.0 186.46 186.46
RE DISCCART 452500.0 4617500.0 183.11 183.11
RE DISCCART 453000.0 4617500.0 178.65 178.65
RE DISCCART 453500.0 4617500.0 180.31 180.31
RE DISCCART 454000.0 4617500.0 178.21 178.21
RE DISCCART 454500.0 4617500.0 178.23 178.23
RE DISCCART 455000.0 4617500.0 178.19 178.19
RE DISCCART 455500.0 4617500.0 179.82 179.82
RE DISCCART 456000.0 4617500.0 179.87 179.87
RE DISCCART 456500.0 4617500.0 178.43 178.43
RE DISCCART 457000.0 4617500.0 175.54 175.54
RE DISCCART 457500.0 4617500.0 175.54 175.54
RE DISCCART 458000.0 4617500.0 175.19 175.19
RE DISCCART 458500.0 4617500.0 175.19 175.19
RE DISCCART 459000.0 4617500.0 175.19 175.19
RE DISCCART 459500.0 4617500.0 175.19 175.19
RE DISCCART 460000.0 4617500.0 175.19 175.19
RE DISCCART 449000.0 4618000.0 181.45 181.45
RE DISCCART 449500.0 4618000.0 181.73 181.73
RE DISCCART 450000.0 4618000.0 182.15 182.15
RE DISCCART 450500.0 4618000.0 183.71 183.71

Phosphorus_2014_OTHER.DTA

RE DISCCART	451000.0	4618000.0	179.78	179.78
RE DISCCART	451500.0	4618000.0	180.32	180.32
RE DISCCART	452000.0	4618000.0	179.69	179.69
RE DISCCART	452500.0	4618000.0	178.58	178.58
RE DISCCART	453000.0	4618000.0	178.49	178.49
RE DISCCART	453500.0	4618000.0	181.2	181.2
RE DISCCART	454000.0	4618000.0	178.78	178.78
RE DISCCART	454500.0	4618000.0	178.88	178.88
RE DISCCART	455000.0	4618000.0	178.68	178.68
RE DISCCART	455500.0	4618000.0	180.34	180.34
RE DISCCART	456000.0	4618000.0	179.52	179.52
RE DISCCART	456500.0	4618000.0	175.54	175.54
RE DISCCART	457000.0	4618000.0	175.54	175.54
RE DISCCART	457500.0	4618000.0	175.36	175.36
RE DISCCART	458000.0	4618000.0	175.19	175.19
RE DISCCART	458500.0	4618000.0	175.19	175.19
RE DISCCART	459000.0	4618000.0	175.19	175.19
RE DISCCART	459500.0	4618000.0	175.19	175.19
RE DISCCART	460000.0	4618000.0	175.19	175.19
RE DISCCART	449000.0	4618500.0	182.16	182.16
RE DISCCART	449500.0	4618500.0	182.49	182.49
RE DISCCART	450000.0	4618500.0	181.76	181.76
RE DISCCART	450500.0	4618500.0	183.49	183.49
RE DISCCART	451000.0	4618500.0	178.27	178.27
RE DISCCART	451500.0	4618500.0	179.93	179.93
RE DISCCART	452000.0	4618500.0	179.17	179.17
RE DISCCART	452500.0	4618500.0	178.57	178.57
RE DISCCART	453000.0	4618500.0	178.48	178.48
RE DISCCART	453500.0	4618500.0	178.28	178.28
RE DISCCART	454000.0	4618500.0	178.55	178.55
RE DISCCART	454500.0	4618500.0	179.47	179.47
RE DISCCART	455000.0	4618500.0	175.26	186.99
RE DISCCART	455500.0	4618500.0	179.69	179.69
RE DISCCART	456000.0	4618500.0	179.77	179.77
RE DISCCART	456500.0	4618500.0	175.54	175.54
RE DISCCART	457000.0	4618500.0	175.4	175.4
RE DISCCART	457500.0	4618500.0	175.19	175.19
RE DISCCART	458000.0	4618500.0	175.19	175.19
RE DISCCART	458500.0	4618500.0	175.19	175.19
RE DISCCART	459000.0	4618500.0	175.19	175.19
RE DISCCART	459500.0	4618500.0	175.19	175.19
RE DISCCART	460000.0	4618500.0	175.19	175.19
RE DISCCART	449000.0	4619000.0	182.29	182.29
RE DISCCART	449500.0	4619000.0	180.94	180.94
RE DISCCART	450000.0	4619000.0	180.4	180.4
RE DISCCART	450500.0	4619000.0	178.6	178.6
RE DISCCART	451000.0	4619000.0	178.27	178.27
RE DISCCART	451500.0	4619000.0	178.55	178.55

Phosphorus_2014_OTHER.DTA

RE DISCCART	452000.0	4619000.0	178.29	178.29
RE DISCCART	452500.0	4619000.0	178.2	178.2
RE DISCCART	453000.0	4619000.0	179.85	179.85
RE DISCCART	453500.0	4619000.0	183.24	183.24
RE DISCCART	454000.0	4619000.0	178.17	178.17
RE DISCCART	454500.0	4619000.0	182.73	182.73
RE DISCCART	455000.0	4619000.0	179.08	179.08
RE DISCCART	455500.0	4619000.0	179.7	179.7
RE DISCCART	456000.0	4619000.0	182.38	182.38
RE DISCCART	456500.0	4619000.0	175.19	175.19
RE DISCCART	457000.0	4619000.0	175.19	175.19
RE DISCCART	457500.0	4619000.0	175.19	175.19
RE DISCCART	458000.0	4619000.0	175.19	175.19
RE DISCCART	458500.0	4619000.0	175.19	175.19
RE DISCCART	459000.0	4619000.0	175.19	175.19
RE DISCCART	459500.0	4619000.0	175.19	175.19
RE DISCCART	460000.0	4619000.0	175.19	175.19
RE DISCCART	449000.0	4619500.0	181.64	181.64
RE DISCCART	449500.0	4619500.0	183.2	183.2
RE DISCCART	450000.0	4619500.0	180.81	180.81
RE DISCCART	450500.0	4619500.0	179.87	179.87
RE DISCCART	451000.0	4619500.0	180.41	180.41
RE DISCCART	451500.0	4619500.0	182.21	182.21
RE DISCCART	452000.0	4619500.0	182.86	182.86
RE DISCCART	452500.0	4619500.0	182.58	182.58
RE DISCCART	453000.0	4619500.0	180.85	180.85
RE DISCCART	453500.0	4619500.0	178.24	178.24
RE DISCCART	454000.0	4619500.0	182.29	182.29
RE DISCCART	454500.0	4619500.0	179.21	179.21
RE DISCCART	455000.0	4619500.0	176.81	176.81
RE DISCCART	455500.0	4619500.0	181.56	181.56
RE DISCCART	456000.0	4619500.0	181.12	181.12
RE DISCCART	456500.0	4619500.0	175.19	175.19
RE DISCCART	457000.0	4619500.0	175.19	175.19
RE DISCCART	457500.0	4619500.0	175.19	175.19
RE DISCCART	458000.0	4619500.0	175.19	175.19
RE DISCCART	458500.0	4619500.0	175.19	175.19
RE DISCCART	459000.0	4619500.0	175.19	175.19
RE DISCCART	459500.0	4619500.0	175.19	175.19
RE DISCCART	460000.0	4619500.0	175.19	175.19
RE DISCCART	449000.0	4620000.0	178.09	178.09
RE DISCCART	449500.0	4620000.0	181.25	181.25
RE DISCCART	450000.0	4620000.0	182.61	182.61
RE DISCCART	450500.0	4620000.0	178.48	178.48
RE DISCCART	451000.0	4620000.0	178.88	178.88
RE DISCCART	451500.0	4620000.0	178.53	178.53
RE DISCCART	452000.0	4620000.0	178.87	178.87
RE DISCCART	452500.0	4620000.0	179.53	179.53

Phosphorus_2014_OTHER.DTA

RE DISCCART 453000.0 4620000.0 178.93 178.93
RE DISCCART 453500.0 4620000.0 184.25 184.25
RE DISCCART 454000.0 4620000.0 179.77 179.77
RE DISCCART 454500.0 4620000.0 179.69 179.69
RE DISCCART 455000.0 4620000.0 179.43 179.43
RE DISCCART 455500.0 4620000.0 175.19 175.19
RE DISCCART 456000.0 4620000.0 182.51 182.51
RE DISCCART 456500.0 4620000.0 175.19 175.19
RE DISCCART 457000.0 4620000.0 175.19 175.19
RE DISCCART 457500.0 4620000.0 175.19 175.19
RE DISCCART 458000.0 4620000.0 175.19 175.19
RE DISCCART 458500.0 4620000.0 175.19 175.19
RE DISCCART 459000.0 4620000.0 175.19 175.19
RE DISCCART 459500.0 4620000.0 175.19 175.19
RE DISCCART 460000.0 4620000.0 175.19 175.19
RE DISCCART 449000.0 4620500.0 179.94 179.94
RE DISCCART 449500.0 4620500.0 180.73 180.73
RE DISCCART 450000.0 4620500.0 181.21 181.21
RE DISCCART 450500.0 4620500.0 179.86 179.86
RE DISCCART 451000.0 4620500.0 178.19 178.19
RE DISCCART 451500.0 4620500.0 178.78 178.78
RE DISCCART 452000.0 4620500.0 180.45 180.45
RE DISCCART 452500.0 4620500.0 182.02 182.02
RE DISCCART 453000.0 4620500.0 184.42 184.42
RE DISCCART 453500.0 4620500.0 180.54 180.54
RE DISCCART 454000.0 4620500.0 179.79 179.79
RE DISCCART 454500.0 4620500.0 178.85 178.85
RE DISCCART 455000.0 4620500.0 178.95 178.95
RE DISCCART 455500.0 4620500.0 180.39 180.39
RE DISCCART 456000.0 4620500.0 176.82 180.36
RE DISCCART 456500.0 4620500.0 175.19 175.19
RE DISCCART 457000.0 4620500.0 175.19 175.19
RE DISCCART 457500.0 4620500.0 175.19 175.19
RE DISCCART 458000.0 4620500.0 175.19 175.19
RE DISCCART 458500.0 4620500.0 175.19 175.19
RE DISCCART 459000.0 4620500.0 175.19 175.19
RE DISCCART 459500.0 4620500.0 175.19 175.19
RE DISCCART 460000.0 4620500.0 175.19 175.19
RE FINISHED

ME STARTING
ME SURFFILE "MDW_DVN_2014.SFC" FREE
ME PROFFILE "MDW_DVN_2014.PFL" FREE
ME SURFDATA 14819 2014 "CHICAGO MIDWAY INTL ARPT, IL"
ME UAIRDATA 94982 2014 "DAVENPORT MUNICIPAL AIRPT, IA"
ME PROFBASE 175 METERS
ME FINISHED

Phosphorus_2014_OTHER.DTA

OU STARTING
OU RECTABLE 24 FIRST
OU PLOTFILE 24 ALL FIRST "Phosphorus_2014_OTHER.GRF" 31
OU PLOTFILE ANNUAL ALL "Phosphorus_2014_OTHER.GRF" 31
OU SUMMFILE "Phosphorus_2014_OTHER.SUM"
OU FINISHED

Phosphorus_2015_OTHER.DTA

 BEEST Express Run *****
 **BEE-Line Software: (Version 12.01) data input file
 ** Model: AERMOD File Creation Date: 2/7/2020 Time: 1:35:37 PM
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CO STARTING
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SO STARTING
 SO ELEVUNIT METERS
 SO LOCATION RTO POINT 454280.579 4614874.64 178.19
 SO SRCPARAM RTO 0.0153087424873 12.4968 314.26 12.914194 1.8288
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO XBADJ RTO 6.90 3.87 0.73 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 -40.62 -44.68 -47.38
 SO XBADJ RTO -48.63 -48.42 -46.73 -47.44 -47.36 -45.83
 SO XBADJ RTO -42.92 -38.70 -33.30 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 1.61 4.89 8.03
 SO XBADJ RTO 10.92 13.47 15.62 14.39 12.24 9.72
 SO YBADJ RTO 21.11 24.78 27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 24.91 21.29 17.01
 SO YBADJ RTO 12.05 5.52 -1.19 -6.80 -11.98 -16.80
 SO YBADJ RTO -21.11 -24.78 -27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 -24.91 -21.29 -17.01
 SO YBADJ RTO -12.05 -5.52 1.19 6.80 11.98 16.80

Phosphorus_2015_OTHER.DTA

SO LOCATION V1	VOLUME	454297.692	4614928.02	178.19			
SO SRCPARAM V1		3.950033555E-05	0.6096	0.70884288	0.5670804		
SO LOCATION V2	VOLUME	454259.682	4614907.47	178.19			
SO SRCPARAM V2		4.762719885E-06	9.144	5.95423752	8.5060536		
SO LOCATION V3	VOLUME	454235.875	4614892.42	178.19			
SO SRCPARAM V3		1.469135287E-05	0.6096	0.42528744	0.5670804		
SO LOCATION V4	VOLUME	454226.98	4614887.08	178.19			
SO SRCPARAM V4		1.259474814E-06	3.81	3.54418392	3.54418392		
SO LOCATION V5	VOLUME	454218.08	4614878.54	178.19			
SO SRCPARAM V5		1.974386788E-05	3.81	1.41768576	3.54418392		
SO LOCATION V6	VOLUME	454225.909	4614867.5	178.19			
SO SRCPARAM V6		2.455698692E-05	5.334	4.2530268	4.96186968		
SO LOCATION V7	VOLUME	454197.08	4614871.06	178.19			
SO SRCPARAM V7		1.530874249E-05	4.572	1.41768576	4.2530268		
SO LOCATION V8	VOLUME	454193.521	4614874.62	178.19			
SO SRCPARAM V8		2.561536912E-06	4.572	1.41768576	4.2530268		
SO LOCATION V9	VOLUME	454213.452	4614885.66	178.19			
SO SRCPARAM V9		4.837058634E-06	3.81	1.7721072	3.54418392		
SO LOCATION V10	VOLUME	454173.38	4614858.04	178.19			
SO SRCPARAM V10		2.53129742E-05	0.9144	1.41768576	0.85060536		
SO LOCATION V11	VOLUME	454170.92	4614872.75	178.19			
SO SRCPARAM V11		2.095344754E-05	5.334	8.5060536	4.96186968		
SO LOCATION V12	VOLUME	454179.64	4614840.61	178.19			
SO SRCPARAM V12		2.095344754E-05	5.334	8.5060536	4.96186968		
SO LOCATION V13	VOLUME	454094.65	4614815.89	177.72			
SO SRCPARAM V13		5.954659835E-05	0.9144	1.41768576	0.85060536		
SO LOCATION VN1	VOLUME	454294.913	4614781.55	178.19			
SO SRCPARAM VN1		2.286861532E-04	6.096	7.08836784	5.67071256		
SO LOCATION VN2	VOLUME	454328.547	4614797.57	178.19			
SO SRCPARAM VN2		6.349033201E-05	6.096	7.08836784	5.67071256		
SO LOCATION VN3	VOLUME	454345.365	4614834.4	178.19			
SO SRCPARAM VN3		1.300298127E-04	3.81	7.08836784	3.54418392		
SO LOCATION VN4	VOLUME	454300.519	4614814.38	178.19			
SO SRCPARAM VN4		5.601865769E-06	3.81	7.08836784	3.54418392		
SO LOCATION VN5	VOLUME	454338.158	4614842.41	178.19			
SO SRCPARAM VN5		3.682918049E-06	3.81	7.08836784	3.54418392		
SO LOCATION VN6	VOLUME	454383.003	4614853.62	178.19			
SO SRCPARAM VN6		5.184812785E-05	3.81	2.83534104	3.54418392		
SO LOCATION DC1	POINT	454378.438	4614823.04	178.19			
SO SRCPARAM DC1		6.052938182E-05	14.3256	295.37	19.404171	0.6096	
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
SO BUILDWID DC1		66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1		60.44	65.23	68.04	68.78	67.44	64.04

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SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDWID DC1	66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1	60.44	65.23	68.04	68.78	67.44	64.04
SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO XBADJ DC1	-55.37	-56.48	-55.86	-53.55	-49.61	-44.17
SO XBADJ DC1	-45.52	-46.90	-46.86	-45.39	-42.55	-38.41
SO XBADJ DC1	-33.11	-26.80	-19.67	-18.08	-17.02	-15.45
SO XBADJ DC1	-13.41	-10.96	-8.18	-5.15	-1.96	1.29
SO XBADJ DC1	-3.62	-9.86	-15.79	-21.25	-26.06	-30.08
SO XBADJ DC1	-33.18	-35.28	-36.30	-42.36	-48.21	-52.59
SO YBADJ DC1	12.07	8.24	4.17	-0.04	-4.24	-8.32
SO YBADJ DC1	-12.14	-15.59	-18.57	-20.98	-22.76	-23.84
SO YBADJ DC1	-24.20	-23.83	-22.73	-20.95	-18.52	-15.53
SO YBADJ DC1	-12.07	-8.24	-4.17	0.04	4.24	8.32
SO YBADJ DC1	12.14	15.59	18.57	20.98	22.76	23.84
SO YBADJ DC1	24.20	23.83	22.73	20.95	18.52	15.53
SO LOCATION AB_0001 VOLUME	454569.7	4615033.84	178.19			
SO SRCPARAM AB_0001	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0002 VOLUME	454557.7	4615033.84	178.19			
SO SRCPARAM AB_0002	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0003 VOLUME	454545.7	4615033.84	178.19			
SO SRCPARAM AB_0003	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0004 VOLUME	454533.7	4615033.84	178.19			
SO SRCPARAM AB_0004	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0005 VOLUME	454521.7	4615033.84	178.19			
SO SRCPARAM AB_0005	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0006 VOLUME	454509.7	4615033.84	178.19			
SO SRCPARAM AB_0006	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0007 VOLUME	454497.7	4615033.84	178.19			
SO SRCPARAM AB_0007	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0008 VOLUME	454485.7	4615033.84	178.19			
SO SRCPARAM AB_0008	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0009 VOLUME	454473.7	4615033.84	178.19			
SO SRCPARAM AB_0009	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0010 VOLUME	454461.7	4615033.84	178.19			
SO SRCPARAM AB_0010	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION CDE_0001 VOLUME	454449.996	4615030.05	178.19			
SO SRCPARAM CDE_0001	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0002 VOLUME	454440.148	4615023.19	178.19			
SO SRCPARAM CDE_0002	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0003 VOLUME	454430.299	4615016.34	178.19			
SO SRCPARAM CDE_0003	1.272326598E-06	2.59	5.58	2.41		

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SO	LOCATION	CDE_0004	VOLUME	454420.675	4615009.19	178.19
SO	SRCPARAM	CDE_0004		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0005	VOLUME	454411.484	4615001.47	178.19
SO	SRCPARAM	CDE_0005		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0006	VOLUME	454402.292	4614993.76	178.19
SO	SRCPARAM	CDE_0006		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0007	VOLUME	454394.404	4614984.73	178.19
SO	SRCPARAM	CDE_0007		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0008	VOLUME	454386.594	4614975.62	178.19
SO	SRCPARAM	CDE_0008		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0009	VOLUME	454380.888	4614965.12	178.19
SO	SRCPARAM	CDE_0009		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0010	VOLUME	454375.67	4614954.32	178.19
SO	SRCPARAM	CDE_0010		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0011	VOLUME	454370.542	4614943.47	178.19
SO	SRCPARAM	CDE_0011		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0012	VOLUME	454366.572	4614932.28	178.19
SO	SRCPARAM	CDE_0012		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0013	VOLUME	454364.926	4614920.39	178.19
SO	SRCPARAM	CDE_0013		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0014	VOLUME	454361.686	4614909.6	178.19
SO	SRCPARAM	CDE_0014		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0015	VOLUME	454351.165	4614903.83	178.19
SO	SRCPARAM	CDE_0015		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0016	VOLUME	454340.644	4614898.06	178.19
SO	SRCPARAM	CDE_0016		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0017	VOLUME	454330.123	4614892.29	178.19
SO	SRCPARAM	CDE_0017		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0018	VOLUME	454319.602	4614886.52	178.19
SO	SRCPARAM	CDE_0018		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0019	VOLUME	454309.08	4614880.75	178.19
SO	SRCPARAM	CDE_0019		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0020	VOLUME	454298.559	4614874.97	178.19
SO	SRCPARAM	CDE_0020		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0021	VOLUME	454288.038	4614869.2	178.19
SO	SRCPARAM	CDE_0021		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0022	VOLUME	454277.517	4614863.43	178.19
SO	SRCPARAM	CDE_0022		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0023	VOLUME	454266.996	4614857.66	178.19
SO	SRCPARAM	CDE_0023		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0024	VOLUME	454256.475	4614851.89	178.19
SO	SRCPARAM	CDE_0024		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0025	VOLUME	454245.953	4614846.12	178.19
SO	SRCPARAM	CDE_0025		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0026	VOLUME	454235.432	4614840.35	178.19
SO	SRCPARAM	CDE_0026		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0027	VOLUME	454224.911	4614834.58	178.19
SO	SRCPARAM	CDE_0027		2.643561532E-06	2.59	5.58 2.41

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SO LOCATION CDE_0028 VOLUME 454214.39 4614828.81 178.19
SO SRCPARAM CDE_0028 2.643561532E-06 2.59 5.58 2.41
SO LOCATION CDE_0029 VOLUME 454203.869 4614823.03 178.19
SO SRCPARAM CDE_0029 2.643561532E-06 2.59 5.58 2.41
SO LOCATION I_0001 VOLUME 454452.749 4615028.45 178.19
SO SRCPARAM I_0001 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0002 VOLUME 454447.62 4615017.6 178.19
SO SRCPARAM I_0002 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0003 VOLUME 454442.491 4615006.75 178.19
SO SRCPARAM I_0003 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0004 VOLUME 454437.363 4614995.9 178.19
SO SRCPARAM I_0004 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0005 VOLUME 454432.234 4614985.05 178.19
SO SRCPARAM I_0005 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0006 VOLUME 454427.105 4614974.21 178.19
SO SRCPARAM I_0006 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0007 VOLUME 454421.976 4614963.36 178.19
SO SRCPARAM I_0007 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0008 VOLUME 454416.847 4614952.51 178.19
SO SRCPARAM I_0008 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0009 VOLUME 454411.718 4614941.66 178.19
SO SRCPARAM I_0009 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0010 VOLUME 454406.589 4614930.81 178.19
SO SRCPARAM I_0010 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0011 VOLUME 454401.46 4614919.96 178.19
SO SRCPARAM I_0011 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0012 VOLUME 454396.332 4614909.11 178.19
SO SRCPARAM I_0012 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0013 VOLUME 454391.203 4614898.26 178.19
SO SRCPARAM I_0013 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0014 VOLUME 454386.074 4614887.42 178.19
SO SRCPARAM I_0014 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0015 VOLUME 454380.945 4614876.57 178.19
SO SRCPARAM I_0015 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0016 VOLUME 454375.816 4614865.72 178.19
SO SRCPARAM I_0016 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0017 VOLUME 454370.687 4614854.87 178.19
SO SRCPARAM I_0017 2.763889508E-07 2.59 5.58 2.41
SO LOCATION H_0001 VOLUME 454569.74 4615048.61 178.19
SO SRCPARAM H_0001 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0002 VOLUME 454557.74 4615048.58 178.19
SO SRCPARAM H_0002 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0003 VOLUME 454545.74 4615048.55 178.19
SO SRCPARAM H_0003 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0004 VOLUME 454533.74 4615048.51 178.19
SO SRCPARAM H_0004 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0005 VOLUME 454521.74 4615048.48 178.19
SO SRCPARAM H_0005 1.777830095E-06 2.59 5.58 2.41

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SO LOCATION H_0006 VOLUME 454509.74 4615048.45 178.19
SO SRCPARAM H_0006 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0007 VOLUME 454497.74 4615048.41 178.19
SO SRCPARAM H_0007 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0008 VOLUME 454485.74 4615048.38 178.19
SO SRCPARAM H_0008 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0009 VOLUME 454473.826 4615049.52 178.19
SO SRCPARAM H_0009 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0010 VOLUME 454462.408 4615052.96 178.19
SO SRCPARAM H_0010 1.777830095E-06 2.59 5.58 2.41
SO LOCATION FG_0001 VOLUME 454450.378 4615031.43 178.19
SO SRCPARAM FG_0001 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0002 VOLUME 454439.841 4615025.69 178.19
SO SRCPARAM FG_0002 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0003 VOLUME 454429.304 4615019.95 178.19
SO SRCPARAM FG_0003 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0004 VOLUME 454418.767 4615014.21 178.19
SO SRCPARAM FG_0004 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0005 VOLUME 454408.23 4615008.46 178.19
SO SRCPARAM FG_0005 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0006 VOLUME 454397.693 4615002.72 178.19
SO SRCPARAM FG_0006 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0007 VOLUME 454387.156 4614996.98 178.19
SO SRCPARAM FG_0007 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0008 VOLUME 454376.619 4614991.24 178.19
SO SRCPARAM FG_0008 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0009 VOLUME 454366.082 4614985.5 178.19
SO SRCPARAM FG_0009 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0010 VOLUME 454355.545 4614979.75 178.19
SO SRCPARAM FG_0010 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0011 VOLUME 454345.008 4614974.01 178.19
SO SRCPARAM FG_0011 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0012 VOLUME 454334.471 4614968.27 178.19
SO SRCPARAM FG_0012 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0013 VOLUME 454323.934 4614962.53 178.19
SO SRCPARAM FG_0013 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0014 VOLUME 454313.397 4614956.79 178.19
SO SRCPARAM FG_0014 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0015 VOLUME 454301.708 4614955.36 178.19
SO SRCPARAM FG_0015 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0016 VOLUME 454289.711 4614955.09 178.19
SO SRCPARAM FG_0016 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0017 VOLUME 454277.714 4614954.82 178.19
SO SRCPARAM FG_0017 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0018 VOLUME 454266.978 4614949.96 178.19
SO SRCPARAM FG_0018 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0019 VOLUME 454256.532 4614944.06 178.19
SO SRCPARAM FG_0019 2.674557011E-06 2.59 5.58 2.41

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SO LOCATION FG_0020 VOLUME 454246.087 4614938.15 178.19
SO SRCPARAM FG_0020 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0021 VOLUME 454235.642 4614932.24 178.19
SO SRCPARAM FG_0021 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0022 VOLUME 454225.196 4614926.34 178.19
SO SRCPARAM FG_0022 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0023 VOLUME 454214.751 4614920.43 178.19
SO SRCPARAM FG_0023 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0024 VOLUME 454204.305 4614914.52 178.19
SO SRCPARAM FG_0024 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0025 VOLUME 454193.86 4614908.61 178.19
SO SRCPARAM FG_0025 2.674557011E-06 2.59 5.58 2.41
SO EMISFACT RTO HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
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SO EMISFACT RTO HRDOW 1 1 1 1 1 0
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SO EMISFACT V2 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
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SO EMISFACT V2 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V3 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V3 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V5 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
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SO EMISFACT V5 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V7 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V7 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V8 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V8 HRDOW 1 1 1 1 1 0
0 0 0 0
SO EMISFACT V1 HRDOW 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 1 1 1 1 1 1 1
1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
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SO EMISFACT V1 HRDOW 1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
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SO EMISFACT V4 HRDOW 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 1 1 1 1 1 1 1
1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
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SO EMISFACT V4 HRDOW 1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
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SO EMISFACT CDE_0026 HRDOW 1 1 1 1 1 0
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SO EMISFACT CDE_0027 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
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SO EMISFACT I_0009 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1
1 1 1 1 1 1

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SO EMISFACT FG_0018 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0019 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
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SO EMISFACT FG_0019 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0020 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
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SO EMISFACT FG_0022 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0024 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0025 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0025 HRDOW 1 1 1 1 1 0
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SO EMISFACT V6 HRDOW 0.1778 0.1778 0.1778 0.1778 0.1778 1
1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1
SO EMISFACT V6 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
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SO EMISFACT V13 HRDOW 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0
1 1 1 1 1
SO EMISFACT V13 HRDOW 1 1 1 0
0 0 0 0 0
SO EMISFACT V10 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1.7456 1.7456 1.7456 1.7456 0 0
0 0 0 0 0 0 0 1 1 1 1 1
SO EMISFACT V10 HRDOW 1 1 1 1.7456 1.7456 0
0 0 0 0 0 0 0 0 0
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS

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RE DISCCART	454084.4	4615065.4	176.19	178.19
RE DISCCART	454083.3	4615039.8	176.07	178.19
RE DISCCART	454082.2	4615014.1	175.94	178.19
RE DISCCART	454085.1	4614964.6	176.36	178.19
RE DISCCART	454088.0	4614915.0	176.78	176.78
RE DISCCART	454091.0	4614865.5	177.21	177.21
RE DISCCART	454093.9	4614816.0	177.63	177.63
RE DISCCART	454096.8	4614766.4	177.99	177.99
RE DISCCART	454099.7	4614716.9	178.2	178.2
RE DISCCART	454102.6	4614667.3	176.81	176.81
RE DISCCART	454105.5	4614617.8	176.3	178.19
RE DISCCART	454108.5	4614568.3	176.73	178.19
RE DISCCART	454111.4	4614518.7	177.14	177.14
RE DISCCART	454114.3	4614469.2	177.56	178.19
RE DISCCART	454107.8	4614425.2	176.75	176.75
RE DISCCART	454101.3	4614381.1	178.05	178.05
RE DISCCART	454094.7	4614337.1	177.87	177.87
RE DISCCART	454088.2	4614293.0	177.6	178.57
RE DISCCART	454081.7	4614249.0	176.52	178.19
RE DISCCART	454082.2	4614201.8	177.25	177.25
RE DISCCART	454082.8	4614154.7	177.44	177.44
RE DISCCART	454121.4	4614157.8	178.19	178.19
RE DISCCART	454160.0	4614160.9	178.19	178.19
RE DISCCART	454191.3	4614179.4	178.19	178.19
RE DISCCART	454222.7	4614198.0	178.19	178.19
RE DISCCART	454254.0	4614216.5	178.19	178.19
RE DISCCART	454253.2	4614226.3	178.19	178.19
RE DISCCART	454296.0	4614249.3	178.19	178.19
RE DISCCART	454338.8	4614272.3	178.19	178.19
RE DISCCART	454381.7	4614295.3	178.19	178.19
RE DISCCART	454424.5	4614318.3	178.19	178.19
RE DISCCART	454467.3	4614341.4	178.19	178.19
RE DISCCART	454510.2	4614364.4	178.19	178.19
RE DISCCART	454553.0	4614387.4	178.19	178.19
RE DISCCART	454595.8	4614410.4	178.19	178.19
RE DISCCART	454595.8	4614459.2	178.19	178.19
RE DISCCART	454595.8	4614507.9	178.19	178.19
RE DISCCART	454595.8	4614556.7	178.19	178.19
RE DISCCART	454595.8	4614605.5	178.19	178.19
RE DISCCART	454595.8	4614654.3	178.19	178.19
RE DISCCART	454595.8	4614703.0	178.19	178.19
RE DISCCART	454595.8	4614751.8	178.19	178.19
RE DISCCART	454595.8	4614800.6	178.19	178.19
RE DISCCART	454595.8	4614849.3	178.19	178.19
RE DISCCART	454595.8	4614898.1	178.19	178.19
RE DISCCART	454595.8	4614946.9	178.19	178.19
RE DISCCART	454595.8	4614995.6	178.19	178.19
RE DISCCART	454595.8	4615044.4	178.19	178.19

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RE DISCCART	454595.8	4615093.2	178.19	178.19
RE DISCCART	454595.8	4615142.0	178.19	178.19
RE DISCCART	454595.8	4615190.7	178.19	178.19
RE DISCCART	454595.8	4615239.5	178.19	178.19
RE DISCCART	454551.9	4615219.2	178.19	178.19
RE DISCCART	454508.0	4615199.0	178.19	178.19
RE DISCCART	454484.5	4615239.5	178.19	178.19
RE DISCCART	454461.1	4615279.9	178.19	178.19
RE DISCCART	454413.6	4615286.6	178.19	178.19
RE DISCCART	454376.8	4615266.9	178.19	178.19
RE DISCCART	454340.0	4615247.2	178.19	178.19
RE DISCCART	454303.1	4615227.5	178.19	178.19
RE DISCCART	454266.3	4615207.8	178.19	178.19
RE DISCCART	454229.5	4615188.1	178.19	178.19
RE DISCCART	454251.0	4615155.9	178.19	178.19
RE DISCCART	454209.3	4615133.3	178.19	178.19
RE DISCCART	454167.7	4615110.7	178.19	178.19
RE DISCCART	454126.1	4615088.0	178.19	178.19
RE DISCCART	452000.0	4612100.0	178.89	225.29
RE DISCCART	452100.0	4612100.0	179.74	225.23
RE DISCCART	452200.0	4612100.0	183.31	183.31
RE DISCCART	452300.0	4612100.0	175.19	186.65
RE DISCCART	452400.0	4612100.0	185.71	185.71
RE DISCCART	452500.0	4612100.0	181.89	181.89
RE DISCCART	452600.0	4612100.0	179.36	179.36
RE DISCCART	452700.0	4612100.0	178.43	178.43
RE DISCCART	452800.0	4612100.0	178.43	178.43
RE DISCCART	452900.0	4612100.0	178.42	178.42
RE DISCCART	453000.0	4612100.0	178.44	178.44
RE DISCCART	453100.0	4612100.0	178.62	178.62
RE DISCCART	453200.0	4612100.0	178.43	178.43
RE DISCCART	453300.0	4612100.0	178.39	178.39
RE DISCCART	453400.0	4612100.0	178.41	178.41
RE DISCCART	453500.0	4612100.0	178.39	178.39
RE DISCCART	453600.0	4612100.0	178.39	178.39
RE DISCCART	453700.0	4612100.0	178.39	178.39
RE DISCCART	453800.0	4612100.0	178.39	178.39
RE DISCCART	453900.0	4612100.0	178.53	178.53
RE DISCCART	454000.0	4612100.0	180.08	180.08
RE DISCCART	454100.0	4612100.0	179.12	179.12
RE DISCCART	454200.0	4612100.0	178.21	178.21
RE DISCCART	454300.0	4612100.0	178.19	178.19
RE DISCCART	454400.0	4612100.0	178.19	178.19
RE DISCCART	454500.0	4612100.0	178.19	178.19
RE DISCCART	454600.0	4612100.0	178.21	178.21
RE DISCCART	454700.0	4612100.0	181.09	181.09
RE DISCCART	454800.0	4612100.0	183.49	183.49
RE DISCCART	454900.0	4612100.0	178.44	178.44

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RE DISCCART	455000.0	4612100.0	178.19	178.19
RE DISCCART	455100.0	4612100.0	178.19	178.19
RE DISCCART	455200.0	4612100.0	178.22	178.22
RE DISCCART	455300.0	4612100.0	177.85	177.85
RE DISCCART	455400.0	4612100.0	177.59	177.59
RE DISCCART	455500.0	4612100.0	177.74	177.74
RE DISCCART	455600.0	4612100.0	178.34	178.34
RE DISCCART	455700.0	4612100.0	177.59	177.59
RE DISCCART	455800.0	4612100.0	177.6	177.6
RE DISCCART	455900.0	4612100.0	177.71	177.71
RE DISCCART	456000.0	4612100.0	178.24	178.24
RE DISCCART	456100.0	4612100.0	177.15	177.15
RE DISCCART	456200.0	4612100.0	177.15	177.15
RE DISCCART	456300.0	4612100.0	177.98	177.98
RE DISCCART	456400.0	4612100.0	178.57	178.57
RE DISCCART	456500.0	4612100.0	178.69	178.69
RE DISCCART	456600.0	4612100.0	178.42	178.42
RE DISCCART	452000.0	4612200.0	179.59	179.59
RE DISCCART	452100.0	4612200.0	180.09	180.09
RE DISCCART	452200.0	4612200.0	179.98	179.98
RE DISCCART	452300.0	4612200.0	175.2	185.77
RE DISCCART	452400.0	4612200.0	175.22	186.65
RE DISCCART	452500.0	4612200.0	178.35	178.35
RE DISCCART	452600.0	4612200.0	178.65	178.65
RE DISCCART	452700.0	4612200.0	178.69	178.69
RE DISCCART	452800.0	4612200.0	178.49	178.49
RE DISCCART	452900.0	4612200.0	178.39	178.39
RE DISCCART	453000.0	4612200.0	178.39	178.39
RE DISCCART	453100.0	4612200.0	178.39	178.39
RE DISCCART	453200.0	4612200.0	178.39	178.39
RE DISCCART	453300.0	4612200.0	178.39	178.39
RE DISCCART	453400.0	4612200.0	178.39	178.39
RE DISCCART	453500.0	4612200.0	178.4	178.4
RE DISCCART	453600.0	4612200.0	178.39	178.39
RE DISCCART	453700.0	4612200.0	178.39	178.39
RE DISCCART	453800.0	4612200.0	178.39	178.39
RE DISCCART	453900.0	4612200.0	178.69	178.69
RE DISCCART	454000.0	4612200.0	179.34	179.34
RE DISCCART	454100.0	4612200.0	179.1	179.1
RE DISCCART	454200.0	4612200.0	178.47	178.47
RE DISCCART	454300.0	4612200.0	178.19	178.19
RE DISCCART	454400.0	4612200.0	178.19	178.19
RE DISCCART	454500.0	4612200.0	178.19	178.19
RE DISCCART	454600.0	4612200.0	182.05	182.05
RE DISCCART	454700.0	4612200.0	183.94	183.94
RE DISCCART	454800.0	4612200.0	184.27	184.27
RE DISCCART	454900.0	4612200.0	180.97	180.97
RE DISCCART	455000.0	4612200.0	178.26	178.26

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RE DISCCART	455100.0	4612200.0	178.19	178.19
RE DISCCART	455200.0	4612200.0	177.87	177.87
RE DISCCART	455300.0	4612200.0	177.7	177.7
RE DISCCART	455400.0	4612200.0	177.59	177.59
RE DISCCART	455500.0	4612200.0	177.59	177.59
RE DISCCART	455600.0	4612200.0	177.59	177.59
RE DISCCART	455700.0	4612200.0	177.59	177.59
RE DISCCART	455800.0	4612200.0	177.59	177.59
RE DISCCART	455900.0	4612200.0	177.59	177.59
RE DISCCART	456000.0	4612200.0	177.59	177.59
RE DISCCART	456100.0	4612200.0	177.12	177.12
RE DISCCART	456200.0	4612200.0	177.38	177.38
RE DISCCART	456300.0	4612200.0	178.25	178.25
RE DISCCART	456400.0	4612200.0	178.12	178.12
RE DISCCART	456500.0	4612200.0	178.36	178.36
RE DISCCART	456600.0	4612200.0	178.45	178.45
RE DISCCART	452000.0	4612300.0	179.2	179.2
RE DISCCART	452100.0	4612300.0	179.09	179.09
RE DISCCART	452200.0	4612300.0	178.7	178.7
RE DISCCART	452300.0	4612300.0	175.19	175.19
RE DISCCART	452400.0	4612300.0	175.19	175.19
RE DISCCART	452500.0	4612300.0	175.98	175.98
RE DISCCART	452600.0	4612300.0	178.29	178.29
RE DISCCART	452700.0	4612300.0	178.63	178.63
RE DISCCART	452800.0	4612300.0	178.65	178.65
RE DISCCART	452900.0	4612300.0	178.42	178.42
RE DISCCART	453000.0	4612300.0	178.39	178.39
RE DISCCART	453100.0	4612300.0	178.39	178.39
RE DISCCART	453200.0	4612300.0	178.39	178.39
RE DISCCART	453300.0	4612300.0	178.39	178.39
RE DISCCART	453400.0	4612300.0	178.55	178.55
RE DISCCART	453500.0	4612300.0	178.49	178.49
RE DISCCART	453600.0	4612300.0	178.39	178.39
RE DISCCART	453700.0	4612300.0	178.39	178.39
RE DISCCART	453800.0	4612300.0	178.68	178.68
RE DISCCART	453900.0	4612300.0	178.86	178.86
RE DISCCART	454000.0	4612300.0	179.04	179.04
RE DISCCART	454100.0	4612300.0	178.92	178.92
RE DISCCART	454200.0	4612300.0	178.38	178.38
RE DISCCART	454300.0	4612300.0	178.19	178.19
RE DISCCART	454400.0	4612300.0	177.9	177.9
RE DISCCART	454500.0	4612300.0	178.19	178.19
RE DISCCART	454600.0	4612300.0	184.17	184.17
RE DISCCART	454700.0	4612300.0	182.35	182.35
RE DISCCART	454800.0	4612300.0	184.24	184.24
RE DISCCART	454900.0	4612300.0	182.36	182.36
RE DISCCART	455000.0	4612300.0	178.21	178.21
RE DISCCART	455100.0	4612300.0	178.19	178.19

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RE DISCCART	455200.0	4612300.0	177.59	177.59
RE DISCCART	455300.0	4612300.0	177.59	177.59
RE DISCCART	455400.0	4612300.0	177.59	177.59
RE DISCCART	455500.0	4612300.0	177.59	177.59
RE DISCCART	455600.0	4612300.0	177.59	177.59
RE DISCCART	455700.0	4612300.0	177.59	177.59
RE DISCCART	455800.0	4612300.0	177.59	177.59
RE DISCCART	455900.0	4612300.0	177.59	177.59
RE DISCCART	456000.0	4612300.0	177.55	177.55
RE DISCCART	456100.0	4612300.0	177.09	177.09
RE DISCCART	456200.0	4612300.0	177.09	177.09
RE DISCCART	456300.0	4612300.0	178.18	178.18
RE DISCCART	456400.0	4612300.0	182.91	182.91
RE DISCCART	456500.0	4612300.0	182.22	182.22
RE DISCCART	456600.0	4612300.0	177.65	177.65
RE DISCCART	452000.0	4612400.0	178.48	178.48
RE DISCCART	452100.0	4612400.0	177.93	177.93
RE DISCCART	452200.0	4612400.0	175.32	175.32
RE DISCCART	452300.0	4612400.0	175.19	175.19
RE DISCCART	452400.0	4612400.0	175.19	175.19
RE DISCCART	452500.0	4612400.0	175.19	175.19
RE DISCCART	452600.0	4612400.0	176.76	178.76
RE DISCCART	452700.0	4612400.0	178.33	178.33
RE DISCCART	452800.0	4612400.0	178.55	178.55
RE DISCCART	452900.0	4612400.0	178.65	178.65
RE DISCCART	453000.0	4612400.0	178.39	178.39
RE DISCCART	453100.0	4612400.0	178.39	178.39
RE DISCCART	453200.0	4612400.0	178.49	178.49
RE DISCCART	453300.0	4612400.0	178.66	178.66
RE DISCCART	453400.0	4612400.0	178.66	178.66
RE DISCCART	453500.0	4612400.0	178.69	178.69
RE DISCCART	453600.0	4612400.0	178.57	178.57
RE DISCCART	453700.0	4612400.0	178.53	178.53
RE DISCCART	453800.0	4612400.0	178.84	178.84
RE DISCCART	453900.0	4612400.0	178.89	178.89
RE DISCCART	454000.0	4612400.0	178.87	178.87
RE DISCCART	454100.0	4612400.0	178.84	178.84
RE DISCCART	454200.0	4612400.0	178.24	178.24
RE DISCCART	454300.0	4612400.0	178.19	178.19
RE DISCCART	454400.0	4612400.0	176.93	176.93
RE DISCCART	454500.0	4612400.0	178.19	178.19
RE DISCCART	454600.0	4612400.0	184.29	184.29
RE DISCCART	454700.0	4612400.0	182.42	182.42
RE DISCCART	454800.0	4612400.0	182.87	182.87
RE DISCCART	454900.0	4612400.0	182.44	182.44
RE DISCCART	455000.0	4612400.0	178.19	178.19
RE DISCCART	455100.0	4612400.0	178.2	178.2
RE DISCCART	455200.0	4612400.0	177.62	177.62

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RE DISCCART	455300.0	4612400.0	177.59	177.59
RE DISCCART	455400.0	4612400.0	177.59	177.59
RE DISCCART	455500.0	4612400.0	177.59	177.59
RE DISCCART	455600.0	4612400.0	177.59	177.59
RE DISCCART	455700.0	4612400.0	177.59	177.59
RE DISCCART	455800.0	4612400.0	178.04	178.04
RE DISCCART	455900.0	4612400.0	177.59	177.59
RE DISCCART	456000.0	4612400.0	177.59	177.59
RE DISCCART	456100.0	4612400.0	177.09	177.09
RE DISCCART	456200.0	4612400.0	177.09	177.09
RE DISCCART	456300.0	4612400.0	177.21	177.21
RE DISCCART	456400.0	4612400.0	179.08	179.08
RE DISCCART	456500.0	4612400.0	177.09	184.88
RE DISCCART	456600.0	4612400.0	177.09	177.09
RE DISCCART	452000.0	4612500.0	175.19	175.19
RE DISCCART	452100.0	4612500.0	175.19	175.19
RE DISCCART	452200.0	4612500.0	175.19	175.19
RE DISCCART	452300.0	4612500.0	175.19	175.19
RE DISCCART	452400.0	4612500.0	175.19	175.19
RE DISCCART	452500.0	4612500.0	175.19	175.19
RE DISCCART	452600.0	4612500.0	175.19	175.19
RE DISCCART	452700.0	4612500.0	175.19	175.19
RE DISCCART	452800.0	4612500.0	176.4	176.4
RE DISCCART	452900.0	4612500.0	178.81	178.81
RE DISCCART	453000.0	4612500.0	178.41	178.41
RE DISCCART	453100.0	4612500.0	178.43	178.43
RE DISCCART	453200.0	4612500.0	178.78	178.78
RE DISCCART	453300.0	4612500.0	178.88	178.88
RE DISCCART	453400.0	4612500.0	178.89	178.89
RE DISCCART	453500.0	4612500.0	178.88	178.88
RE DISCCART	453600.0	4612500.0	178.83	178.83
RE DISCCART	453700.0	4612500.0	178.86	178.86
RE DISCCART	453800.0	4612500.0	178.89	178.89
RE DISCCART	453900.0	4612500.0	178.79	178.79
RE DISCCART	454000.0	4612500.0	179.09	179.09
RE DISCCART	454100.0	4612500.0	179.7	179.7
RE DISCCART	454200.0	4612500.0	178.44	178.44
RE DISCCART	454300.0	4612500.0	178.19	178.19
RE DISCCART	454400.0	4612500.0	177.42	177.42
RE DISCCART	454500.0	4612500.0	178.2	178.2
RE DISCCART	454600.0	4612500.0	184.46	184.46
RE DISCCART	454700.0	4612500.0	182.06	182.06
RE DISCCART	454800.0	4612500.0	183.02	183.02
RE DISCCART	454900.0	4612500.0	182.32	182.32
RE DISCCART	455000.0	4612500.0	178.19	178.19
RE DISCCART	455100.0	4612500.0	178.29	178.29
RE DISCCART	455200.0	4612500.0	177.58	177.58
RE DISCCART	455300.0	4612500.0	178.1	178.1

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RE DISCCART	455400.0	4612500.0	177.59	177.59
RE DISCCART	455500.0	4612500.0	177.59	177.59
RE DISCCART	455600.0	4612500.0	177.59	177.59
RE DISCCART	455700.0	4612500.0	177.59	177.59
RE DISCCART	455800.0	4612500.0	177.62	177.62
RE DISCCART	455900.0	4612500.0	177.59	177.59
RE DISCCART	456000.0	4612500.0	177.59	177.59
RE DISCCART	456100.0	4612500.0	177.09	177.09
RE DISCCART	456200.0	4612500.0	177.09	177.09
RE DISCCART	456300.0	4612500.0	177.23	177.23
RE DISCCART	456400.0	4612500.0	178.44	178.44
RE DISCCART	456500.0	4612500.0	177.09	177.09
RE DISCCART	456600.0	4612500.0	177.09	177.09
RE DISCCART	452000.0	4612600.0	177.13	177.75
RE DISCCART	452100.0	4612600.0	177.92	177.92
RE DISCCART	452200.0	4612600.0	177.98	177.98
RE DISCCART	452300.0	4612600.0	178.16	178.16
RE DISCCART	452400.0	4612600.0	178.18	178.18
RE DISCCART	452500.0	4612600.0	178.22	178.22
RE DISCCART	452600.0	4612600.0	177.25	177.25
RE DISCCART	452700.0	4612600.0	175.19	175.19
RE DISCCART	452800.0	4612600.0	175.19	175.19
RE DISCCART	452900.0	4612600.0	178.65	178.65
RE DISCCART	453000.0	4612600.0	179.49	179.49
RE DISCCART	453100.0	4612600.0	179.28	179.28
RE DISCCART	453200.0	4612600.0	179.18	179.18
RE DISCCART	453300.0	4612600.0	179.19	179.19
RE DISCCART	453400.0	4612600.0	179.08	179.08
RE DISCCART	453500.0	4612600.0	179.09	179.09
RE DISCCART	453600.0	4612600.0	179.	179.
RE DISCCART	453700.0	4612600.0	179.09	179.09
RE DISCCART	453800.0	4612600.0	179.1	179.1
RE DISCCART	453900.0	4612600.0	178.79	178.79
RE DISCCART	454000.0	4612600.0	179.62	179.62
RE DISCCART	454100.0	4612600.0	178.55	178.55
RE DISCCART	454200.0	4612600.0	178.36	178.36
RE DISCCART	454300.0	4612600.0	178.19	178.19
RE DISCCART	454400.0	4612600.0	177.52	177.52
RE DISCCART	454500.0	4612600.0	178.16	178.16
RE DISCCART	454600.0	4612600.0	182.04	182.04
RE DISCCART	454700.0	4612600.0	182.15	193.99
RE DISCCART	454800.0	4612600.0	183.89	193.99
RE DISCCART	454900.0	4612600.0	183.7	183.7
RE DISCCART	455000.0	4612600.0	178.38	178.38
RE DISCCART	455100.0	4612600.0	178.19	178.19
RE DISCCART	455200.0	4612600.0	178.05	178.05
RE DISCCART	455300.0	4612600.0	177.6	177.6
RE DISCCART	455400.0	4612600.0	177.59	177.59

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RE DISCCART	455500.0	4612600.0	177.89	177.89
RE DISCCART	455600.0	4612600.0	178.04	178.04
RE DISCCART	455700.0	4612600.0	177.59	177.59
RE DISCCART	455800.0	4612600.0	177.59	177.59
RE DISCCART	455900.0	4612600.0	177.59	177.59
RE DISCCART	456000.0	4612600.0	177.59	177.59
RE DISCCART	456100.0	4612600.0	177.09	177.09
RE DISCCART	456200.0	4612600.0	177.09	177.09
RE DISCCART	456300.0	4612600.0	177.25	177.25
RE DISCCART	456400.0	4612600.0	177.62	177.62
RE DISCCART	456500.0	4612600.0	177.09	177.09
RE DISCCART	456600.0	4612600.0	177.09	177.09
RE DISCCART	452000.0	4612700.0	178.29	178.29
RE DISCCART	452100.0	4612700.0	178.29	178.29
RE DISCCART	452200.0	4612700.0	178.29	178.29
RE DISCCART	452300.0	4612700.0	178.45	178.45
RE DISCCART	452400.0	4612700.0	178.29	178.29
RE DISCCART	452500.0	4612700.0	178.29	178.29
RE DISCCART	452600.0	4612700.0	178.29	178.29
RE DISCCART	452700.0	4612700.0	178.3	178.3
RE DISCCART	452800.0	4612700.0	175.19	175.19
RE DISCCART	452900.0	4612700.0	175.9	175.9
RE DISCCART	453000.0	4612700.0	179.11	179.11
RE DISCCART	453100.0	4612700.0	179.52	179.52
RE DISCCART	453200.0	4612700.0	179.43	179.43
RE DISCCART	453300.0	4612700.0	179.39	179.39
RE DISCCART	453400.0	4612700.0	179.06	179.06
RE DISCCART	453500.0	4612700.0	178.99	178.99
RE DISCCART	453600.0	4612700.0	179.	179.
RE DISCCART	453700.0	4612700.0	179.26	179.26
RE DISCCART	453800.0	4612700.0	179.35	179.35
RE DISCCART	453900.0	4612700.0	179.43	179.43
RE DISCCART	454000.0	4612700.0	179.34	179.34
RE DISCCART	454100.0	4612700.0	177.85	177.85
RE DISCCART	454200.0	4612700.0	178.41	178.41
RE DISCCART	454300.0	4612700.0	177.68	177.68
RE DISCCART	454400.0	4612700.0	176.14	176.14
RE DISCCART	454500.0	4612700.0	178.19	192.89
RE DISCCART	454600.0	4612700.0	187.71	192.89
RE DISCCART	454700.0	4612700.0	192.76	192.76
RE DISCCART	454800.0	4612700.0	188.65	193.99
RE DISCCART	454900.0	4612700.0	184.34	185.68
RE DISCCART	455000.0	4612700.0	178.37	178.37
RE DISCCART	455100.0	4612700.0	178.19	178.19
RE DISCCART	455200.0	4612700.0	178.36	178.36
RE DISCCART	455300.0	4612700.0	177.63	177.63
RE DISCCART	455400.0	4612700.0	177.59	177.59
RE DISCCART	455500.0	4612700.0	177.59	177.59

Phosphorus_2015_OTHER.DTA

RE DISCCART	455600.0	4612700.0	177.59	177.59
RE DISCCART	455700.0	4612700.0	177.59	177.59
RE DISCCART	455800.0	4612700.0	177.59	177.59
RE DISCCART	455900.0	4612700.0	177.59	177.59
RE DISCCART	456000.0	4612700.0	177.59	177.59
RE DISCCART	456100.0	4612700.0	177.09	177.09
RE DISCCART	456200.0	4612700.0	177.09	177.09
RE DISCCART	456300.0	4612700.0	177.25	177.25
RE DISCCART	456400.0	4612700.0	177.49	177.49
RE DISCCART	456500.0	4612700.0	177.09	177.09
RE DISCCART	456600.0	4612700.0	177.09	177.09
RE DISCCART	452000.0	4612800.0	178.29	178.29
RE DISCCART	452100.0	4612800.0	178.29	178.29
RE DISCCART	452200.0	4612800.0	178.03	178.03
RE DISCCART	452300.0	4612800.0	178.29	178.29
RE DISCCART	452400.0	4612800.0	178.63	178.63
RE DISCCART	452500.0	4612800.0	178.45	178.45
RE DISCCART	452600.0	4612800.0	178.29	178.29
RE DISCCART	452700.0	4612800.0	178.86	178.86
RE DISCCART	452800.0	4612800.0	175.19	178.87
RE DISCCART	452900.0	4612800.0	175.19	175.19
RE DISCCART	453000.0	4612800.0	175.51	178.75
RE DISCCART	453100.0	4612800.0	179.66	179.66
RE DISCCART	453200.0	4612800.0	179.52	179.52
RE DISCCART	453300.0	4612800.0	179.24	179.24
RE DISCCART	453400.0	4612800.0	178.99	178.99
RE DISCCART	453500.0	4612800.0	178.99	178.99
RE DISCCART	453600.0	4612800.0	178.99	178.99
RE DISCCART	453700.0	4612800.0	179.25	179.25
RE DISCCART	453800.0	4612800.0	179.47	179.47
RE DISCCART	453900.0	4612800.0	179.75	179.75
RE DISCCART	454000.0	4612800.0	178.34	178.34
RE DISCCART	454100.0	4612800.0	177.22	177.22
RE DISCCART	454200.0	4612800.0	178.1	178.1
RE DISCCART	454300.0	4612800.0	177.88	177.88
RE DISCCART	454400.0	4612800.0	177.56	177.56
RE DISCCART	454500.0	4612800.0	178.14	178.14
RE DISCCART	454600.0	4612800.0	178.26	193.05
RE DISCCART	454700.0	4612800.0	178.63	193.99
RE DISCCART	454800.0	4612800.0	179.17	193.99
RE DISCCART	454900.0	4612800.0	179.2	179.2
RE DISCCART	455000.0	4612800.0	178.92	178.92
RE DISCCART	455100.0	4612800.0	178.19	178.19
RE DISCCART	455200.0	4612800.0	178.4	178.4
RE DISCCART	455300.0	4612800.0	177.59	177.59
RE DISCCART	455400.0	4612800.0	177.59	177.59
RE DISCCART	455500.0	4612800.0	177.59	177.59
RE DISCCART	455600.0	4612800.0	177.59	177.59

Phosphorus_2015_OTHER.DTA

RE DISCCART	455700.0	4612800.0	177.59	177.59
RE DISCCART	455800.0	4612800.0	177.59	177.59
RE DISCCART	455900.0	4612800.0	177.59	177.59
RE DISCCART	456000.0	4612800.0	177.59	177.59
RE DISCCART	456100.0	4612800.0	177.09	177.09
RE DISCCART	456200.0	4612800.0	177.09	177.09
RE DISCCART	456300.0	4612800.0	177.3	177.3
RE DISCCART	456400.0	4612800.0	177.76	177.76
RE DISCCART	456500.0	4612800.0	177.09	177.09
RE DISCCART	456600.0	4612800.0	177.09	177.09
RE DISCCART	452000.0	4612900.0	178.29	178.29
RE DISCCART	452100.0	4612900.0	178.29	178.29
RE DISCCART	452200.0	4612900.0	176.09	176.09
RE DISCCART	452300.0	4612900.0	177.89	177.89
RE DISCCART	452400.0	4612900.0	178.61	178.61
RE DISCCART	452500.0	4612900.0	178.95	178.95
RE DISCCART	452600.0	4612900.0	179.06	179.06
RE DISCCART	452700.0	4612900.0	179.65	179.65
RE DISCCART	452800.0	4612900.0	179.72	179.72
RE DISCCART	452900.0	4612900.0	175.47	179.73
RE DISCCART	453000.0	4612900.0	178.19	178.94
RE DISCCART	453100.0	4612900.0	175.19	175.19
RE DISCCART	453200.0	4612900.0	175.71	179.62
RE DISCCART	453300.0	4612900.0	179.48	179.48
RE DISCCART	453400.0	4612900.0	178.99	178.99
RE DISCCART	453500.0	4612900.0	178.99	178.99
RE DISCCART	453600.0	4612900.0	178.99	178.99
RE DISCCART	453700.0	4612900.0	179.22	179.22
RE DISCCART	453800.0	4612900.0	179.59	179.59
RE DISCCART	453900.0	4612900.0	178.72	178.72
RE DISCCART	454000.0	4612900.0	178.21	178.21
RE DISCCART	454100.0	4612900.0	177.14	177.14
RE DISCCART	454200.0	4612900.0	178.23	178.23
RE DISCCART	454300.0	4612900.0	178.19	178.19
RE DISCCART	454400.0	4612900.0	178.31	178.31
RE DISCCART	454500.0	4612900.0	178.21	178.21
RE DISCCART	454600.0	4612900.0	178.34	178.34
RE DISCCART	454700.0	4612900.0	179.22	179.22
RE DISCCART	454800.0	4612900.0	180.02	180.02
RE DISCCART	454900.0	4612900.0	180.38	180.38
RE DISCCART	455000.0	4612900.0	180.38	180.38
RE DISCCART	455100.0	4612900.0	178.19	178.19
RE DISCCART	455200.0	4612900.0	178.21	178.21
RE DISCCART	455300.0	4612900.0	177.59	177.59
RE DISCCART	455400.0	4612900.0	177.59	177.59
RE DISCCART	455500.0	4612900.0	177.59	177.59
RE DISCCART	455600.0	4612900.0	177.59	177.59
RE DISCCART	455700.0	4612900.0	177.59	177.59

Phosphorus_2015_OTHER.DTA

RE DISCCART	455800.0	4612900.0	177.59	177.59
RE DISCCART	455900.0	4612900.0	177.86	177.86
RE DISCCART	456000.0	4612900.0	177.59	177.59
RE DISCCART	456100.0	4612900.0	177.09	177.09
RE DISCCART	456200.0	4612900.0	177.09	177.09
RE DISCCART	456300.0	4612900.0	177.22	177.22
RE DISCCART	456400.0	4612900.0	177.09	177.09
RE DISCCART	456500.0	4612900.0	177.09	177.09
RE DISCCART	456600.0	4612900.0	177.09	177.09
RE DISCCART	452000.0	4613000.0	178.29	178.29
RE DISCCART	452100.0	4613000.0	178.29	178.29
RE DISCCART	452200.0	4613000.0	176.09	176.09
RE DISCCART	452300.0	4613000.0	177.92	177.92
RE DISCCART	452400.0	4613000.0	178.88	178.88
RE DISCCART	452500.0	4613000.0	179.22	179.22
RE DISCCART	452600.0	4613000.0	179.66	179.66
RE DISCCART	452700.0	4613000.0	179.69	179.69
RE DISCCART	452800.0	4613000.0	179.69	179.69
RE DISCCART	452900.0	4613000.0	179.69	179.69
RE DISCCART	453000.0	4613000.0	178.45	178.45
RE DISCCART	453100.0	4613000.0	176.93	176.93
RE DISCCART	453200.0	4613000.0	175.19	175.19
RE DISCCART	453300.0	4613000.0	176.43	179.6
RE DISCCART	453400.0	4613000.0	179.04	179.04
RE DISCCART	453500.0	4613000.0	178.99	178.99
RE DISCCART	453600.0	4613000.0	178.99	178.99
RE DISCCART	453700.0	4613000.0	179.33	179.33
RE DISCCART	453800.0	4613000.0	179.76	179.76
RE DISCCART	453900.0	4613000.0	178.57	178.57
RE DISCCART	454000.0	4613000.0	178.35	178.35
RE DISCCART	454100.0	4613000.0	177.29	177.29
RE DISCCART	454200.0	4613000.0	178.21	178.21
RE DISCCART	454300.0	4613000.0	178.37	178.37
RE DISCCART	454400.0	4613000.0	178.77	178.77
RE DISCCART	454500.0	4613000.0	178.2	178.2
RE DISCCART	454600.0	4613000.0	178.31	178.31
RE DISCCART	454700.0	4613000.0	179.07	179.07
RE DISCCART	454800.0	4613000.0	179.61	179.61
RE DISCCART	454900.0	4613000.0	179.86	179.86
RE DISCCART	455000.0	4613000.0	180.28	180.28
RE DISCCART	455100.0	4613000.0	178.19	178.19
RE DISCCART	455200.0	4613000.0	178.19	178.19
RE DISCCART	455300.0	4613000.0	178.45	178.45
RE DISCCART	455400.0	4613000.0	177.59	177.59
RE DISCCART	455500.0	4613000.0	177.59	177.59
RE DISCCART	455600.0	4613000.0	177.59	177.59
RE DISCCART	455700.0	4613000.0	177.59	177.59
RE DISCCART	455800.0	4613000.0	177.59	177.59

Phosphorus_2015_OTHER.DTA

RE DISCCART	455900.0	4613000.0	179.1	179.1
RE DISCCART	456000.0	4613000.0	177.59	177.59
RE DISCCART	456100.0	4613000.0	177.09	177.09
RE DISCCART	456200.0	4613000.0	177.09	177.09
RE DISCCART	456300.0	4613000.0	177.65	177.65
RE DISCCART	456400.0	4613000.0	177.83	177.83
RE DISCCART	456500.0	4613000.0	177.91	177.91
RE DISCCART	456600.0	4613000.0	177.9	177.9
RE DISCCART	452000.0	4613100.0	178.29	178.29
RE DISCCART	452100.0	4613100.0	178.29	178.29
RE DISCCART	452200.0	4613100.0	176.09	176.09
RE DISCCART	452300.0	4613100.0	178.55	178.55
RE DISCCART	452400.0	4613100.0	179.71	179.71
RE DISCCART	452500.0	4613100.0	179.47	179.47
RE DISCCART	452600.0	4613100.0	179.69	179.69
RE DISCCART	452700.0	4613100.0	179.69	179.69
RE DISCCART	452800.0	4613100.0	179.69	179.69
RE DISCCART	452900.0	4613100.0	179.66	179.66
RE DISCCART	453000.0	4613100.0	178.53	178.53
RE DISCCART	453100.0	4613100.0	179.09	179.09
RE DISCCART	453200.0	4613100.0	177.43	177.43
RE DISCCART	453300.0	4613100.0	175.19	175.19
RE DISCCART	453400.0	4613100.0	178.89	183.39
RE DISCCART	453500.0	4613100.0	178.99	178.99
RE DISCCART	453600.0	4613100.0	179.21	179.21
RE DISCCART	453700.0	4613100.0	179.55	179.55
RE DISCCART	453800.0	4613100.0	179.59	179.59
RE DISCCART	453900.0	4613100.0	178.96	178.96
RE DISCCART	454000.0	4613100.0	178.29	178.29
RE DISCCART	454100.0	4613100.0	178.57	178.57
RE DISCCART	454200.0	4613100.0	178.19	178.19
RE DISCCART	454300.0	4613100.0	178.24	189.25
RE DISCCART	454400.0	4613100.0	178.75	178.75
RE DISCCART	454500.0	4613100.0	178.2	178.2
RE DISCCART	454600.0	4613100.0	178.3	178.3
RE DISCCART	454700.0	4613100.0	178.96	178.96
RE DISCCART	454800.0	4613100.0	179.34	179.34
RE DISCCART	454900.0	4613100.0	179.71	179.71
RE DISCCART	455000.0	4613100.0	179.65	179.65
RE DISCCART	455100.0	4613100.0	178.19	178.19
RE DISCCART	455200.0	4613100.0	178.27	178.27
RE DISCCART	455300.0	4613100.0	178.46	178.46
RE DISCCART	455400.0	4613100.0	177.59	177.59
RE DISCCART	455500.0	4613100.0	177.59	177.59
RE DISCCART	455600.0	4613100.0	177.59	177.59
RE DISCCART	455700.0	4613100.0	179.44	179.44
RE DISCCART	455800.0	4613100.0	177.65	177.65
RE DISCCART	455900.0	4613100.0	177.64	177.64

Phosphorus_2015_OTHER.DTA

RE DISCCART	456000.0	4613100.0	177.59	177.59
RE DISCCART	456100.0	4613100.0	177.09	177.09
RE DISCCART	456200.0	4613100.0	177.09	177.09
RE DISCCART	456300.0	4613100.0	177.42	177.42
RE DISCCART	456400.0	4613100.0	177.09	177.09
RE DISCCART	456500.0	4613100.0	177.09	177.09
RE DISCCART	456600.0	4613100.0	177.09	177.09
RE DISCCART	452000.0	4613200.0	178.29	178.29
RE DISCCART	452100.0	4613200.0	178.29	178.29
RE DISCCART	452200.0	4613200.0	176.09	176.09
RE DISCCART	452300.0	4613200.0	178.5	178.5
RE DISCCART	452400.0	4613200.0	179.43	179.43
RE DISCCART	452500.0	4613200.0	179.7	179.7
RE DISCCART	452600.0	4613200.0	179.69	179.69
RE DISCCART	452700.0	4613200.0	179.69	179.69
RE DISCCART	452800.0	4613200.0	179.7	179.7
RE DISCCART	452900.0	4613200.0	179.23	179.23
RE DISCCART	453000.0	4613200.0	178.52	178.52
RE DISCCART	453100.0	4613200.0	179.09	179.09
RE DISCCART	453200.0	4613200.0	179.09	179.09
RE DISCCART	453300.0	4613200.0	177.61	179.09
RE DISCCART	453400.0	4613200.0	175.19	183.84
RE DISCCART	453500.0	4613200.0	175.31	183.84
RE DISCCART	453600.0	4613200.0	179.52	179.52
RE DISCCART	453700.0	4613200.0	178.94	178.94
RE DISCCART	453800.0	4613200.0	179.31	179.31
RE DISCCART	453900.0	4613200.0	178.82	178.82
RE DISCCART	454000.0	4613200.0	178.28	178.28
RE DISCCART	454100.0	4613200.0	179.66	179.66
RE DISCCART	454200.0	4613200.0	178.19	191.48
RE DISCCART	454300.0	4613200.0	186.33	191.48
RE DISCCART	454400.0	4613200.0	183.86	183.86
RE DISCCART	454500.0	4613200.0	178.41	178.41
RE DISCCART	454600.0	4613200.0	178.24	178.24
RE DISCCART	454700.0	4613200.0	179.33	179.33
RE DISCCART	454800.0	4613200.0	180.56	180.56
RE DISCCART	454900.0	4613200.0	179.49	179.49
RE DISCCART	455000.0	4613200.0	178.61	178.61
RE DISCCART	455100.0	4613200.0	178.2	178.2
RE DISCCART	455200.0	4613200.0	178.3	178.3
RE DISCCART	455300.0	4613200.0	178.58	178.58
RE DISCCART	455400.0	4613200.0	178.14	178.14
RE DISCCART	455500.0	4613200.0	177.59	177.59
RE DISCCART	455600.0	4613200.0	177.59	177.59
RE DISCCART	455700.0	4613200.0	177.59	177.59
RE DISCCART	455800.0	4613200.0	177.59	177.59
RE DISCCART	455900.0	4613200.0	177.59	177.59
RE DISCCART	456000.0	4613200.0	178.33	178.33

Phosphorus_2015_OTHER.DTA

RE DISCCART	456100.0	4613200.0	177.09	177.09
RE DISCCART	456200.0	4613200.0	177.09	177.09
RE DISCCART	456300.0	4613200.0	177.4	177.4
RE DISCCART	456400.0	4613200.0	177.09	177.09
RE DISCCART	456500.0	4613200.0	177.09	177.09
RE DISCCART	456600.0	4613200.0	177.09	177.09
RE DISCCART	452000.0	4613300.0	178.29	178.29
RE DISCCART	452100.0	4613300.0	178.29	178.29
RE DISCCART	452200.0	4613300.0	176.09	176.09
RE DISCCART	452300.0	4613300.0	178.57	178.57
RE DISCCART	452400.0	4613300.0	179.64	179.64
RE DISCCART	452500.0	4613300.0	179.72	179.72
RE DISCCART	452600.0	4613300.0	179.69	179.69
RE DISCCART	452700.0	4613300.0	179.68	179.68
RE DISCCART	452800.0	4613300.0	179.37	179.37
RE DISCCART	452900.0	4613300.0	178.92	178.92
RE DISCCART	453000.0	4613300.0	179.63	179.63
RE DISCCART	453100.0	4613300.0	179.09	179.09
RE DISCCART	453200.0	4613300.0	179.09	179.09
RE DISCCART	453300.0	4613300.0	179.09	179.09
RE DISCCART	453400.0	4613300.0	180.54	180.54
RE DISCCART	453500.0	4613300.0	176.44	182.98
RE DISCCART	453600.0	4613300.0	175.19	175.19
RE DISCCART	453700.0	4613300.0	178.89	178.89
RE DISCCART	453800.0	4613300.0	178.51	178.51
RE DISCCART	453900.0	4613300.0	178.67	178.67
RE DISCCART	454000.0	4613300.0	178.17	178.17
RE DISCCART	454100.0	4613300.0	178.61	178.61
RE DISCCART	454200.0	4613300.0	178.19	191.67
RE DISCCART	454300.0	4613300.0	191.01	191.01
RE DISCCART	454400.0	4613300.0	185.06	191.11
RE DISCCART	454500.0	4613300.0	178.57	178.57
RE DISCCART	454600.0	4613300.0	178.21	178.21
RE DISCCART	454700.0	4613300.0	179.35	179.35
RE DISCCART	454800.0	4613300.0	179.96	179.96
RE DISCCART	454900.0	4613300.0	178.57	178.57
RE DISCCART	455000.0	4613300.0	178.19	178.19
RE DISCCART	455100.0	4613300.0	178.19	178.19
RE DISCCART	455200.0	4613300.0	178.4	178.4
RE DISCCART	455300.0	4613300.0	178.62	178.62
RE DISCCART	455400.0	4613300.0	179.12	179.12
RE DISCCART	455500.0	4613300.0	177.59	177.59
RE DISCCART	455600.0	4613300.0	177.59	177.59
RE DISCCART	455700.0	4613300.0	177.59	177.59
RE DISCCART	455800.0	4613300.0	177.59	177.59
RE DISCCART	455900.0	4613300.0	177.59	177.59
RE DISCCART	456000.0	4613300.0	178.25	178.25
RE DISCCART	456100.0	4613300.0	177.09	177.09

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RE DISCCART	456200.0	4613300.0	177.09	177.09
RE DISCCART	456300.0	4613300.0	177.42	177.42
RE DISCCART	456400.0	4613300.0	177.09	177.09
RE DISCCART	456500.0	4613300.0	177.09	177.09
RE DISCCART	456600.0	4613300.0	177.09	181.45
RE DISCCART	452000.0	4613400.0	178.43	178.43
RE DISCCART	452100.0	4613400.0	178.29	178.29
RE DISCCART	452200.0	4613400.0	176.09	176.09
RE DISCCART	452300.0	4613400.0	178.61	178.61
RE DISCCART	452400.0	4613400.0	179.8	179.8
RE DISCCART	452500.0	4613400.0	179.79	179.79
RE DISCCART	452600.0	4613400.0	179.88	179.88
RE DISCCART	452700.0	4613400.0	179.69	179.69
RE DISCCART	452800.0	4613400.0	179.29	179.29
RE DISCCART	452900.0	4613400.0	179.31	179.31
RE DISCCART	453000.0	4613400.0	179.69	179.69
RE DISCCART	453100.0	4613400.0	179.41	179.41
RE DISCCART	453200.0	4613400.0	179.25	179.25
RE DISCCART	453300.0	4613400.0	179.22	179.22
RE DISCCART	453400.0	4613400.0	178.6	178.6
RE DISCCART	453500.0	4613400.0	178.32	178.32
RE DISCCART	453600.0	4613400.0	175.42	175.42
RE DISCCART	453700.0	4613400.0	175.19	175.19
RE DISCCART	453800.0	4613400.0	178.12	178.12
RE DISCCART	453900.0	4613400.0	178.19	178.19
RE DISCCART	454000.0	4613400.0	178.2	178.2
RE DISCCART	454100.0	4613400.0	178.27	178.27
RE DISCCART	454200.0	4613400.0	178.19	190.94
RE DISCCART	454300.0	4613400.0	183.33	191.37
RE DISCCART	454400.0	4613400.0	186.85	188.57
RE DISCCART	454500.0	4613400.0	178.75	189.85
RE DISCCART	454600.0	4613400.0	178.19	178.19
RE DISCCART	454700.0	4613400.0	178.19	178.19
RE DISCCART	454800.0	4613400.0	178.19	178.19
RE DISCCART	454900.0	4613400.0	178.19	178.19
RE DISCCART	455000.0	4613400.0	178.19	178.19
RE DISCCART	455100.0	4613400.0	178.19	178.19
RE DISCCART	455200.0	4613400.0	178.33	178.33
RE DISCCART	455300.0	4613400.0	178.84	178.84
RE DISCCART	455400.0	4613400.0	179.24	179.24
RE DISCCART	455500.0	4613400.0	177.59	177.59
RE DISCCART	455600.0	4613400.0	177.59	177.59
RE DISCCART	455700.0	4613400.0	177.59	177.59
RE DISCCART	455800.0	4613400.0	177.59	177.59
RE DISCCART	455900.0	4613400.0	177.59	177.59
RE DISCCART	456000.0	4613400.0	177.59	177.59
RE DISCCART	456100.0	4613400.0	177.12	177.12
RE DISCCART	456200.0	4613400.0	177.09	177.09

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RE DISCCART	456300.0	4613400.0	177.53	177.53
RE DISCCART	456400.0	4613400.0	177.09	177.09
RE DISCCART	456500.0	4613400.0	177.09	177.09
RE DISCCART	456600.0	4613400.0	179.72	181.72
RE DISCCART	452000.0	4613500.0	178.76	178.76
RE DISCCART	452100.0	4613500.0	178.29	178.29
RE DISCCART	452200.0	4613500.0	176.09	176.09
RE DISCCART	452300.0	4613500.0	178.51	178.51
RE DISCCART	452400.0	4613500.0	179.41	179.41
RE DISCCART	452500.0	4613500.0	179.7	179.7
RE DISCCART	452600.0	4613500.0	179.69	179.69
RE DISCCART	452700.0	4613500.0	179.61	179.61
RE DISCCART	452800.0	4613500.0	179.67	179.67
RE DISCCART	452900.0	4613500.0	179.68	179.68
RE DISCCART	453000.0	4613500.0	179.7	179.7
RE DISCCART	453100.0	4613500.0	179.39	179.39
RE DISCCART	453200.0	4613500.0	179.12	179.12
RE DISCCART	453300.0	4613500.0	178.77	178.77
RE DISCCART	453400.0	4613500.0	178.48	178.48
RE DISCCART	453500.0	4613500.0	178.29	178.29
RE DISCCART	453600.0	4613500.0	178.58	178.58
RE DISCCART	453700.0	4613500.0	176.66	178.79
RE DISCCART	453800.0	4613500.0	175.19	175.19
RE DISCCART	453900.0	4613500.0	175.19	179.57
RE DISCCART	454000.0	4613500.0	178.74	178.74
RE DISCCART	454100.0	4613500.0	178.19	178.19
RE DISCCART	454200.0	4613500.0	178.19	178.19
RE DISCCART	454300.0	4613500.0	179.63	190.05
RE DISCCART	454400.0	4613500.0	179.7	190.05
RE DISCCART	454500.0	4613500.0	178.75	189.85
RE DISCCART	454600.0	4613500.0	178.19	178.19
RE DISCCART	454700.0	4613500.0	178.19	178.19
RE DISCCART	454800.0	4613500.0	178.19	178.19
RE DISCCART	454900.0	4613500.0	178.19	178.19
RE DISCCART	455000.0	4613500.0	178.19	178.19
RE DISCCART	455100.0	4613500.0	178.19	178.19
RE DISCCART	455200.0	4613500.0	178.19	178.19
RE DISCCART	455300.0	4613500.0	178.7	178.7
RE DISCCART	455400.0	4613500.0	179.15	179.15
RE DISCCART	455500.0	4613500.0	177.59	177.59
RE DISCCART	455600.0	4613500.0	177.59	177.59
RE DISCCART	455700.0	4613500.0	177.59	177.59
RE DISCCART	455800.0	4613500.0	177.59	177.59
RE DISCCART	455900.0	4613500.0	177.59	177.59
RE DISCCART	456000.0	4613500.0	177.59	177.59
RE DISCCART	456100.0	4613500.0	177.27	177.27
RE DISCCART	456200.0	4613500.0	177.09	177.09
RE DISCCART	456300.0	4613500.0	177.21	177.21

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RE DISCCART	456400.0	4613500.0	177.09	177.09
RE DISCCART	456500.0	4613500.0	177.09	177.09
RE DISCCART	456600.0	4613500.0	182.03	182.03
RE DISCCART	452000.0	4613600.0	179.18	179.18
RE DISCCART	452100.0	4613600.0	178.34	178.34
RE DISCCART	452200.0	4613600.0	176.09	176.09
RE DISCCART	452300.0	4613600.0	176.35	176.35
RE DISCCART	452400.0	4613600.0	179.65	179.65
RE DISCCART	452500.0	4613600.0	179.75	179.75
RE DISCCART	452600.0	4613600.0	179.66	179.66
RE DISCCART	452700.0	4613600.0	179.94	179.94
RE DISCCART	452800.0	4613600.0	179.84	179.84
RE DISCCART	452900.0	4613600.0	179.69	179.69
RE DISCCART	453000.0	4613600.0	179.93	179.93
RE DISCCART	453100.0	4613600.0	179.42	179.42
RE DISCCART	453200.0	4613600.0	178.51	178.51
RE DISCCART	453300.0	4613600.0	178.49	178.49
RE DISCCART	453400.0	4613600.0	178.56	178.56
RE DISCCART	453500.0	4613600.0	178.29	178.29
RE DISCCART	453600.0	4613600.0	178.72	178.72
RE DISCCART	453700.0	4613600.0	178.61	178.61
RE DISCCART	453800.0	4613600.0	178.4	178.4
RE DISCCART	453900.0	4613600.0	175.19	175.19
RE DISCCART	454000.0	4613600.0	175.19	175.19
RE DISCCART	454100.0	4613600.0	178.19	178.19
RE DISCCART	454200.0	4613600.0	178.19	178.19
RE DISCCART	454300.0	4613600.0	178.34	178.34
RE DISCCART	454400.0	4613600.0	178.64	178.64
RE DISCCART	454500.0	4613600.0	178.2	178.2
RE DISCCART	454600.0	4613600.0	178.19	178.19
RE DISCCART	454700.0	4613600.0	178.19	178.19
RE DISCCART	454800.0	4613600.0	178.19	178.19
RE DISCCART	454900.0	4613600.0	178.19	178.19
RE DISCCART	455000.0	4613600.0	178.19	178.19
RE DISCCART	455100.0	4613600.0	178.19	178.19
RE DISCCART	455200.0	4613600.0	178.19	178.19
RE DISCCART	455300.0	4613600.0	178.39	178.39
RE DISCCART	455400.0	4613600.0	178.92	178.92
RE DISCCART	455500.0	4613600.0	179.5	179.5
RE DISCCART	455600.0	4613600.0	177.66	177.66
RE DISCCART	455700.0	4613600.0	177.59	177.59
RE DISCCART	455800.0	4613600.0	177.59	177.59
RE DISCCART	455900.0	4613600.0	177.59	177.59
RE DISCCART	456000.0	4613600.0	177.59	177.59
RE DISCCART	456100.0	4613600.0	177.12	177.12
RE DISCCART	456200.0	4613600.0	177.09	177.09
RE DISCCART	456300.0	4613600.0	177.1	177.1
RE DISCCART	456400.0	4613600.0	177.09	177.09

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RE DISCCART	456500.0	4613600.0	177.09	177.09
RE DISCCART	456600.0	4613600.0	179.31	182.02
RE DISCCART	452000.0	4613700.0	179.31	179.31
RE DISCCART	452100.0	4613700.0	179.45	179.45
RE DISCCART	452200.0	4613700.0	178.21	196.21
RE DISCCART	452300.0	4613700.0	178.54	195.02
RE DISCCART	452400.0	4613700.0	178.65	178.65
RE DISCCART	452500.0	4613700.0	179.75	179.75
RE DISCCART	452600.0	4613700.0	179.84	179.84
RE DISCCART	452700.0	4613700.0	180.18	180.18
RE DISCCART	452800.0	4613700.0	180.26	180.26
RE DISCCART	452900.0	4613700.0	180.07	180.07
RE DISCCART	453000.0	4613700.0	179.98	179.98
RE DISCCART	453100.0	4613700.0	179.36	179.36
RE DISCCART	453200.0	4613700.0	179.64	179.64
RE DISCCART	453300.0	4613700.0	179.68	179.68
RE DISCCART	453400.0	4613700.0	179.7	179.7
RE DISCCART	453500.0	4613700.0	179.03	179.03
RE DISCCART	453600.0	4613700.0	179.03	179.03
RE DISCCART	453700.0	4613700.0	178.77	178.77
RE DISCCART	453800.0	4613700.0	179.75	179.75
RE DISCCART	453900.0	4613700.0	178.59	178.59
RE DISCCART	454000.0	4613700.0	175.19	175.19
RE DISCCART	454100.0	4613700.0	178.19	178.19
RE DISCCART	454200.0	4613700.0	178.19	178.19
RE DISCCART	454300.0	4613700.0	178.19	178.19
RE DISCCART	454400.0	4613700.0	178.19	178.19
RE DISCCART	454500.0	4613700.0	178.19	178.19
RE DISCCART	454600.0	4613700.0	178.19	178.19
RE DISCCART	454700.0	4613700.0	178.19	178.19
RE DISCCART	454800.0	4613700.0	178.19	178.19
RE DISCCART	454900.0	4613700.0	178.19	178.19
RE DISCCART	455000.0	4613700.0	178.19	178.19
RE DISCCART	455100.0	4613700.0	178.19	178.19
RE DISCCART	455200.0	4613700.0	178.19	178.19
RE DISCCART	455300.0	4613700.0	178.19	178.19
RE DISCCART	455400.0	4613700.0	178.44	178.44
RE DISCCART	455500.0	4613700.0	178.92	178.92
RE DISCCART	455600.0	4613700.0	179.76	179.76
RE DISCCART	455700.0	4613700.0	177.59	177.59
RE DISCCART	455800.0	4613700.0	177.59	177.59
RE DISCCART	455900.0	4613700.0	177.59	177.59
RE DISCCART	456000.0	4613700.0	177.59	177.59
RE DISCCART	456100.0	4613700.0	177.13	177.13
RE DISCCART	456200.0	4613700.0	177.47	177.47
RE DISCCART	456300.0	4613700.0	178.48	178.48
RE DISCCART	456400.0	4613700.0	178.39	178.39
RE DISCCART	456500.0	4613700.0	177.26	177.26

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RE DISCCART	456600.0	4613700.0	178.33	178.33
RE DISCCART	452000.0	4613800.0	179.24	179.24
RE DISCCART	452100.0	4613800.0	179.59	197.62
RE DISCCART	452200.0	4613800.0	192.68	193.46
RE DISCCART	452300.0	4613800.0	182.29	197.62
RE DISCCART	452400.0	4613800.0	178.75	196.34
RE DISCCART	452500.0	4613800.0	179.83	179.83
RE DISCCART	452600.0	4613800.0	180.3	180.3
RE DISCCART	452700.0	4613800.0	180.72	180.72
RE DISCCART	452800.0	4613800.0	180.77	180.77
RE DISCCART	452900.0	4613800.0	180.42	180.42
RE DISCCART	453000.0	4613800.0	180.01	180.01
RE DISCCART	453100.0	4613800.0	179.43	179.43
RE DISCCART	453200.0	4613800.0	179.38	179.38
RE DISCCART	453300.0	4613800.0	179.37	179.37
RE DISCCART	453400.0	4613800.0	178.75	178.75
RE DISCCART	453500.0	4613800.0	179.08	179.08
RE DISCCART	453600.0	4613800.0	179.26	179.26
RE DISCCART	453700.0	4613800.0	179.01	179.01
RE DISCCART	453800.0	4613800.0	179.73	179.73
RE DISCCART	453900.0	4613800.0	180.57	180.57
RE DISCCART	454000.0	4613800.0	175.19	180.07
RE DISCCART	454100.0	4613800.0	175.19	179.63
RE DISCCART	454200.0	4613800.0	177.78	177.78
RE DISCCART	454300.0	4613800.0	178.19	178.19
RE DISCCART	454400.0	4613800.0	178.19	178.19
RE DISCCART	454500.0	4613800.0	178.19	178.19
RE DISCCART	454600.0	4613800.0	178.19	178.19
RE DISCCART	454700.0	4613800.0	178.19	178.19
RE DISCCART	454800.0	4613800.0	178.19	178.19
RE DISCCART	454900.0	4613800.0	178.19	178.19
RE DISCCART	455000.0	4613800.0	178.19	178.19
RE DISCCART	455100.0	4613800.0	178.19	178.19
RE DISCCART	455200.0	4613800.0	178.19	178.19
RE DISCCART	455300.0	4613800.0	178.19	178.19
RE DISCCART	455400.0	4613800.0	178.19	178.19
RE DISCCART	455500.0	4613800.0	178.75	178.75
RE DISCCART	455600.0	4613800.0	180.1	180.1
RE DISCCART	455700.0	4613800.0	178.83	180.77
RE DISCCART	455800.0	4613800.0	179.49	181.08
RE DISCCART	455900.0	4613800.0	179.64	181.13
RE DISCCART	456000.0	4613800.0	178.72	178.72
RE DISCCART	456100.0	4613800.0	177.15	177.15
RE DISCCART	456200.0	4613800.0	178.34	178.34
RE DISCCART	456300.0	4613800.0	178.72	178.72
RE DISCCART	456400.0	4613800.0	177.97	177.97
RE DISCCART	456500.0	4613800.0	177.89	181.4
RE DISCCART	456600.0	4613800.0	178.99	178.99

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RE DISCCART	452000.0	4613900.0	179.25	179.25
RE DISCCART	452100.0	4613900.0	179.59	198.85
RE DISCCART	452200.0	4613900.0	196.69	196.69
RE DISCCART	452300.0	4613900.0	191.98	196.34
RE DISCCART	452400.0	4613900.0	179.12	198.85
RE DISCCART	452500.0	4613900.0	179.92	179.92
RE DISCCART	452600.0	4613900.0	180.6	180.6
RE DISCCART	452700.0	4613900.0	183.05	183.05
RE DISCCART	452800.0	4613900.0	181.06	181.06
RE DISCCART	452900.0	4613900.0	180.64	180.64
RE DISCCART	453000.0	4613900.0	179.97	179.97
RE DISCCART	453100.0	4613900.0	178.84	178.84
RE DISCCART	453200.0	4613900.0	179.13	179.13
RE DISCCART	453300.0	4613900.0	179.09	179.09
RE DISCCART	453400.0	4613900.0	178.54	178.54
RE DISCCART	453500.0	4613900.0	179.84	179.84
RE DISCCART	453600.0	4613900.0	179.39	179.39
RE DISCCART	453700.0	4613900.0	179.23	179.23
RE DISCCART	453800.0	4613900.0	179.7	179.7
RE DISCCART	453900.0	4613900.0	179.51	179.51
RE DISCCART	454000.0	4613900.0	175.19	179.27
RE DISCCART	454100.0	4613900.0	175.19	175.19
RE DISCCART	454200.0	4613900.0	175.19	175.19
RE DISCCART	454300.0	4613900.0	178.19	178.19
RE DISCCART	454400.0	4613900.0	178.19	178.19
RE DISCCART	454500.0	4613900.0	178.19	178.19
RE DISCCART	454600.0	4613900.0	178.19	178.19
RE DISCCART	454700.0	4613900.0	178.19	178.19
RE DISCCART	454800.0	4613900.0	178.19	178.19
RE DISCCART	454900.0	4613900.0	178.19	178.19
RE DISCCART	455000.0	4613900.0	178.19	178.19
RE DISCCART	455100.0	4613900.0	178.19	178.19
RE DISCCART	455200.0	4613900.0	178.19	178.19
RE DISCCART	455300.0	4613900.0	178.19	178.19
RE DISCCART	455400.0	4613900.0	178.2	178.2
RE DISCCART	455500.0	4613900.0	178.38	178.38
RE DISCCART	455600.0	4613900.0	179.68	179.68
RE DISCCART	455700.0	4613900.0	181.27	181.27
RE DISCCART	455800.0	4613900.0	181.27	181.27
RE DISCCART	455900.0	4613900.0	181.27	181.27
RE DISCCART	456000.0	4613900.0	181.27	181.27
RE DISCCART	456100.0	4613900.0	180.2	180.2
RE DISCCART	456200.0	4613900.0	178.78	178.78
RE DISCCART	456300.0	4613900.0	178.37	178.37
RE DISCCART	456400.0	4613900.0	177.99	177.99
RE DISCCART	456500.0	4613900.0	181.15	181.15
RE DISCCART	456600.0	4613900.0	178.66	178.66
RE DISCCART	452000.0	4614000.0	179.2	179.2

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RE DISCCART	452100.0	4614000.0	179.63	198.85
RE DISCCART	452200.0	4614000.0	196.94	196.94
RE DISCCART	452300.0	4614000.0	194.23	198.85
RE DISCCART	452400.0	4614000.0	179.09	198.85
RE DISCCART	452500.0	4614000.0	180.1	180.1
RE DISCCART	452600.0	4614000.0	180.84	180.84
RE DISCCART	452700.0	4614000.0	182.49	182.49
RE DISCCART	452800.0	4614000.0	181.47	181.47
RE DISCCART	452900.0	4614000.0	180.99	180.99
RE DISCCART	453000.0	4614000.0	180.16	180.16
RE DISCCART	453100.0	4614000.0	178.4	178.4
RE DISCCART	453200.0	4614000.0	179.05	179.05
RE DISCCART	453300.0	4614000.0	178.92	178.92
RE DISCCART	453400.0	4614000.0	178.47	178.47
RE DISCCART	453500.0	4614000.0	179.84	179.84
RE DISCCART	453600.0	4614000.0	179.44	179.44
RE DISCCART	453700.0	4614000.0	179.24	179.24
RE DISCCART	453800.0	4614000.0	179.72	179.72
RE DISCCART	453900.0	4614000.0	179.09	179.09
RE DISCCART	454000.0	4614000.0	175.29	179.09
RE DISCCART	454100.0	4614000.0	175.33	175.33
RE DISCCART	454200.0	4614000.0	178.28	178.28
RE DISCCART	454300.0	4614000.0	178.19	178.19
RE DISCCART	454400.0	4614000.0	178.19	178.19
RE DISCCART	454500.0	4614000.0	178.19	178.19
RE DISCCART	454600.0	4614000.0	178.19	178.19
RE DISCCART	454700.0	4614000.0	178.19	178.19
RE DISCCART	454800.0	4614000.0	178.19	178.19
RE DISCCART	454900.0	4614000.0	178.19	178.19
RE DISCCART	455000.0	4614000.0	178.19	178.19
RE DISCCART	455100.0	4614000.0	178.19	178.19
RE DISCCART	455200.0	4614000.0	178.19	178.19
RE DISCCART	455300.0	4614000.0	178.19	178.19
RE DISCCART	455400.0	4614000.0	178.19	178.19
RE DISCCART	455500.0	4614000.0	178.89	178.89
RE DISCCART	455600.0	4614000.0	180.23	180.23
RE DISCCART	455700.0	4614000.0	181.25	181.25
RE DISCCART	455800.0	4614000.0	181.47	181.47
RE DISCCART	455900.0	4614000.0	181.39	181.39
RE DISCCART	456000.0	4614000.0	181.38	181.38
RE DISCCART	456100.0	4614000.0	181.32	181.32
RE DISCCART	456200.0	4614000.0	180.69	180.69
RE DISCCART	456300.0	4614000.0	178.43	178.43
RE DISCCART	456400.0	4614000.0	178.32	178.32
RE DISCCART	456500.0	4614000.0	182.4	182.4
RE DISCCART	456600.0	4614000.0	178.72	178.72
RE DISCCART	452000.0	4614100.0	179.07	179.07
RE DISCCART	452100.0	4614100.0	179.58	198.84

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RE DISCCART	452200.0	4614100.0	197.09	197.09
RE DISCCART	452300.0	4614100.0	195.23	198.22
RE DISCCART	452400.0	4614100.0	179.09	198.85
RE DISCCART	452500.0	4614100.0	180.38	180.38
RE DISCCART	452600.0	4614100.0	181.7	181.7
RE DISCCART	452700.0	4614100.0	180.89	180.89
RE DISCCART	452800.0	4614100.0	180.99	180.99
RE DISCCART	452900.0	4614100.0	182.92	182.92
RE DISCCART	453000.0	4614100.0	180.41	180.41
RE DISCCART	453100.0	4614100.0	178.33	178.33
RE DISCCART	453200.0	4614100.0	178.88	178.88
RE DISCCART	453300.0	4614100.0	178.83	178.83
RE DISCCART	453400.0	4614100.0	178.47	178.47
RE DISCCART	453500.0	4614100.0	179.73	179.73
RE DISCCART	453600.0	4614100.0	179.39	179.39
RE DISCCART	453700.0	4614100.0	179.04	179.04
RE DISCCART	453800.0	4614100.0	179.72	179.72
RE DISCCART	453900.0	4614100.0	179.09	179.09
RE DISCCART	454000.0	4614100.0	175.19	175.19
RE DISCCART	454100.0	4614100.0	178.19	178.19
RE DISCCART	454200.0	4614100.0	178.19	178.19
RE DISCCART	454300.0	4614100.0	178.19	178.19
RE DISCCART	454400.0	4614100.0	178.19	178.19
RE DISCCART	454500.0	4614100.0	178.19	178.19
RE DISCCART	454600.0	4614100.0	178.19	178.19
RE DISCCART	454700.0	4614100.0	178.19	178.19
RE DISCCART	454800.0	4614100.0	178.19	178.19
RE DISCCART	454900.0	4614100.0	178.19	178.19
RE DISCCART	455000.0	4614100.0	178.19	178.19
RE DISCCART	455100.0	4614100.0	178.19	178.19
RE DISCCART	455200.0	4614100.0	178.19	178.19
RE DISCCART	455300.0	4614100.0	178.19	178.19
RE DISCCART	455400.0	4614100.0	178.19	178.19
RE DISCCART	455500.0	4614100.0	178.19	178.19
RE DISCCART	455600.0	4614100.0	179.6	179.6
RE DISCCART	455700.0	4614100.0	180.56	180.56
RE DISCCART	455800.0	4614100.0	181.09	181.09
RE DISCCART	455900.0	4614100.0	181.05	181.05
RE DISCCART	456000.0	4614100.0	181.04	181.04
RE DISCCART	456100.0	4614100.0	181.04	181.04
RE DISCCART	456200.0	4614100.0	180.17	180.17
RE DISCCART	456300.0	4614100.0	178.77	178.77
RE DISCCART	456400.0	4614100.0	178.5	178.5
RE DISCCART	456500.0	4614100.0	184.04	184.04
RE DISCCART	456600.0	4614100.0	179.04	179.04
RE DISCCART	452000.0	4614200.0	178.93	178.93
RE DISCCART	452100.0	4614200.0	179.54	198.06
RE DISCCART	452200.0	4614200.0	197.13	197.13

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RE DISCCART	452300.0	4614200.0	190.9	197.91
RE DISCCART	452400.0	4614200.0	179.36	198.45
RE DISCCART	452500.0	4614200.0	183.24	183.24
RE DISCCART	452600.0	4614200.0	181.18	181.18
RE DISCCART	452700.0	4614200.0	180.83	180.83
RE DISCCART	452800.0	4614200.0	180.61	180.61
RE DISCCART	452900.0	4614200.0	180.79	180.79
RE DISCCART	453000.0	4614200.0	180.07	180.07
RE DISCCART	453100.0	4614200.0	178.31	178.31
RE DISCCART	453200.0	4614200.0	178.73	178.73
RE DISCCART	453300.0	4614200.0	178.8	178.8
RE DISCCART	453400.0	4614200.0	178.39	178.39
RE DISCCART	453500.0	4614200.0	179.6	179.6
RE DISCCART	453600.0	4614200.0	178.69	178.69
RE DISCCART	453700.0	4614200.0	179.02	179.02
RE DISCCART	453800.0	4614200.0	179.71	179.71
RE DISCCART	453900.0	4614200.0	179.09	179.09
RE DISCCART	454000.0	4614200.0	175.42	178.
RE DISCCART	454300.0	4614200.0	178.19	178.19
RE DISCCART	454400.0	4614200.0	178.19	178.19
RE DISCCART	454500.0	4614200.0	178.19	178.19
RE DISCCART	454600.0	4614200.0	178.19	178.19
RE DISCCART	454700.0	4614200.0	178.19	178.19
RE DISCCART	454800.0	4614200.0	178.19	178.19
RE DISCCART	454900.0	4614200.0	178.19	178.19
RE DISCCART	455000.0	4614200.0	178.19	178.19
RE DISCCART	455100.0	4614200.0	178.19	178.19
RE DISCCART	455200.0	4614200.0	178.19	178.19
RE DISCCART	455300.0	4614200.0	178.19	178.19
RE DISCCART	455400.0	4614200.0	178.19	178.19
RE DISCCART	455500.0	4614200.0	178.19	178.19
RE DISCCART	455600.0	4614200.0	178.63	178.63
RE DISCCART	455700.0	4614200.0	179.95	179.95
RE DISCCART	455800.0	4614200.0	180.45	180.45
RE DISCCART	455900.0	4614200.0	180.74	180.74
RE DISCCART	456000.0	4614200.0	180.81	180.81
RE DISCCART	456100.0	4614200.0	180.77	180.77
RE DISCCART	456200.0	4614200.0	179.77	179.77
RE DISCCART	456300.0	4614200.0	179.16	179.16
RE DISCCART	456400.0	4614200.0	178.38	178.38
RE DISCCART	456500.0	4614200.0	185.68	185.68
RE DISCCART	456600.0	4614200.0	178.92	178.92
RE DISCCART	452000.0	4614300.0	178.79	178.79
RE DISCCART	452100.0	4614300.0	179.54	198.44
RE DISCCART	452200.0	4614300.0	196.96	196.96
RE DISCCART	452300.0	4614300.0	195.32	197.99
RE DISCCART	452400.0	4614300.0	179.88	207.67
RE DISCCART	452500.0	4614300.0	180.64	180.64

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RE DISCCART	452600.0	4614300.0	181.19	181.19
RE DISCCART	452700.0	4614300.0	180.86	180.86
RE DISCCART	452800.0	4614300.0	180.67	180.67
RE DISCCART	452900.0	4614300.0	180.33	180.33
RE DISCCART	453000.0	4614300.0	179.92	179.92
RE DISCCART	453100.0	4614300.0	178.28	178.28
RE DISCCART	453200.0	4614300.0	178.62	178.62
RE DISCCART	453300.0	4614300.0	178.72	178.72
RE DISCCART	453400.0	4614300.0	178.4	178.4
RE DISCCART	453500.0	4614300.0	179.56	179.56
RE DISCCART	453600.0	4614300.0	178.57	178.57
RE DISCCART	453700.0	4614300.0	179.36	179.36
RE DISCCART	453800.0	4614300.0	179.09	179.09
RE DISCCART	453900.0	4614300.0	179.09	179.09
RE DISCCART	454000.0	4614300.0	175.57	179.43
RE DISCCART	454400.0	4614300.0	178.19	178.19
RE DISCCART	454500.0	4614300.0	178.19	178.19
RE DISCCART	454600.0	4614300.0	178.19	178.19
RE DISCCART	454700.0	4614300.0	178.19	178.19
RE DISCCART	454800.0	4614300.0	178.19	178.19
RE DISCCART	454900.0	4614300.0	178.19	178.19
RE DISCCART	455000.0	4614300.0	178.19	178.19
RE DISCCART	455100.0	4614300.0	178.19	178.19
RE DISCCART	455200.0	4614300.0	178.19	178.19
RE DISCCART	455300.0	4614300.0	178.19	178.19
RE DISCCART	455400.0	4614300.0	178.19	178.19
RE DISCCART	455500.0	4614300.0	178.19	178.19
RE DISCCART	455600.0	4614300.0	178.2	178.2
RE DISCCART	455700.0	4614300.0	179.16	179.16
RE DISCCART	455800.0	4614300.0	180.06	180.06
RE DISCCART	455900.0	4614300.0	180.42	180.42
RE DISCCART	456000.0	4614300.0	180.52	180.52
RE DISCCART	456100.0	4614300.0	180.76	180.76
RE DISCCART	456200.0	4614300.0	180.53	180.53
RE DISCCART	456300.0	4614300.0	179.71	179.71
RE DISCCART	456400.0	4614300.0	178.79	178.79
RE DISCCART	456500.0	4614300.0	186.67	186.67
RE DISCCART	456600.0	4614300.0	178.51	178.51
RE DISCCART	452000.0	4614400.0	178.88	178.88
RE DISCCART	452100.0	4614400.0	179.64	209.4
RE DISCCART	452200.0	4614400.0	189.91	197.97
RE DISCCART	452300.0	4614400.0	182.14	209.86
RE DISCCART	452400.0	4614400.0	180.84	209.89
RE DISCCART	452500.0	4614400.0	181.52	209.73
RE DISCCART	452600.0	4614400.0	182.58	209.73
RE DISCCART	452700.0	4614400.0	183.21	207.94
RE DISCCART	452800.0	4614400.0	180.86	180.86
RE DISCCART	452900.0	4614400.0	180.43	180.43

Phosphorus_2015_OTHER.DTA

RE DISCCART	453000.0	4614400.0	179.93	179.93
RE DISCCART	453100.0	4614400.0	178.28	178.28
RE DISCCART	453200.0	4614400.0	178.57	178.57
RE DISCCART	453300.0	4614400.0	178.59	178.59
RE DISCCART	453400.0	4614400.0	178.36	178.36
RE DISCCART	453500.0	4614400.0	179.53	179.53
RE DISCCART	453600.0	4614400.0	178.42	178.42
RE DISCCART	453700.0	4614400.0	178.26	178.26
RE DISCCART	453800.0	4614400.0	179.25	179.25
RE DISCCART	453900.0	4614400.0	179.09	179.09
RE DISCCART	454000.0	4614400.0	175.74	179.36
RE DISCCART	454100.0	4614400.0	176.57	176.57
RE DISCCART	454600.0	4614400.0	178.19	178.19
RE DISCCART	454700.0	4614400.0	178.19	178.19
RE DISCCART	454800.0	4614400.0	178.19	178.19
RE DISCCART	454900.0	4614400.0	178.19	178.19
RE DISCCART	455000.0	4614400.0	178.19	178.19
RE DISCCART	455100.0	4614400.0	178.19	178.19
RE DISCCART	455200.0	4614400.0	178.19	178.19
RE DISCCART	455300.0	4614400.0	178.19	178.19
RE DISCCART	455400.0	4614400.0	178.19	178.19
RE DISCCART	455500.0	4614400.0	178.19	178.19
RE DISCCART	455600.0	4614400.0	178.19	178.19
RE DISCCART	455700.0	4614400.0	178.49	178.49
RE DISCCART	455800.0	4614400.0	179.75	179.75
RE DISCCART	455900.0	4614400.0	179.98	179.98
RE DISCCART	456000.0	4614400.0	180.08	180.08
RE DISCCART	456100.0	4614400.0	180.33	180.33
RE DISCCART	456200.0	4614400.0	180.14	180.14
RE DISCCART	456300.0	4614400.0	180.1	180.1
RE DISCCART	456400.0	4614400.0	179.18	179.18
RE DISCCART	456500.0	4614400.0	183.97	187.29
RE DISCCART	456600.0	4614400.0	178.1	187.29
RE DISCCART	452000.0	4614500.0	178.92	209.34
RE DISCCART	452100.0	4614500.0	179.63	209.73
RE DISCCART	452200.0	4614500.0	181.94	209.9
RE DISCCART	452300.0	4614500.0	184.57	209.9
RE DISCCART	452400.0	4614500.0	185.99	209.9
RE DISCCART	452500.0	4614500.0	186.21	209.89
RE DISCCART	452600.0	4614500.0	187.94	209.73
RE DISCCART	452700.0	4614500.0	183.09	209.73
RE DISCCART	452800.0	4614500.0	181.1	207.94
RE DISCCART	452900.0	4614500.0	180.76	180.76
RE DISCCART	453000.0	4614500.0	179.97	179.97
RE DISCCART	453100.0	4614500.0	177.09	177.09
RE DISCCART	453200.0	4614500.0	178.51	178.51
RE DISCCART	453300.0	4614500.0	178.6	178.6
RE DISCCART	453400.0	4614500.0	178.4	178.4

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RE DISCCART 453500.0 4614500.0 178.3 178.3
RE DISCCART 453600.0 4614500.0 178.45 178.45
RE DISCCART 453700.0 4614500.0 178.29 178.29
RE DISCCART 453800.0 4614500.0 178.72 178.72
RE DISCCART 453900.0 4614500.0 179. 179.
RE DISCCART 454000.0 4614500.0 175.88 179.42
RE DISCCART 454100.0 4614500.0 175.68 178.19
RE DISCCART 454600.0 4614500.0 178.19 178.19
RE DISCCART 454700.0 4614500.0 178.19 178.19
RE DISCCART 454800.0 4614500.0 178.19 178.19
RE DISCCART 454900.0 4614500.0 178.19 178.19
RE DISCCART 455000.0 4614500.0 178.19 178.19
RE DISCCART 455100.0 4614500.0 178.19 178.19
RE DISCCART 455200.0 4614500.0 178.19 178.19
RE DISCCART 455300.0 4614500.0 178.19 178.19
RE DISCCART 455400.0 4614500.0 178.19 178.19
RE DISCCART 455500.0 4614500.0 178.19 178.19
RE DISCCART 455600.0 4614500.0 178.19 178.19
RE DISCCART 455700.0 4614500.0 178.19 178.19
RE DISCCART 455800.0 4614500.0 178.31 178.31
RE DISCCART 455900.0 4614500.0 178.95 178.95
RE DISCCART 456000.0 4614500.0 178.19 178.19
RE DISCCART 456100.0 4614500.0 177.84 177.84
RE DISCCART 456200.0 4614500.0 177.96 177.96
RE DISCCART 456300.0 4614500.0 177.94 177.94
RE DISCCART 456400.0 4614500.0 179.71 179.71
RE DISCCART 456500.0 4614500.0 178.56 186.45
RE DISCCART 456600.0 4614500.0 178.36 178.36
RE DISCCART 452000.0 4614600.0 178.9 209.55
RE DISCCART 452100.0 4614600.0 180.26 209.9
RE DISCCART 452200.0 4614600.0 203.8 208.92
RE DISCCART 452300.0 4614600.0 208.72 208.72
RE DISCCART 452400.0 4614600.0 209.12 209.12
RE DISCCART 452500.0 4614600.0 209.2 209.2
RE DISCCART 452600.0 4614600.0 196.42 209.73
RE DISCCART 452700.0 4614600.0 183.46 209.73
RE DISCCART 452800.0 4614600.0 182.18 207.94
RE DISCCART 452900.0 4614600.0 181.41 181.41
RE DISCCART 453000.0 4614600.0 180.16 180.16
RE DISCCART 453100.0 4614600.0 177.17 177.17
RE DISCCART 453200.0 4614600.0 177.04 177.04
RE DISCCART 453300.0 4614600.0 178.49 178.49
RE DISCCART 453400.0 4614600.0 178.39 178.39
RE DISCCART 453500.0 4614600.0 178.29 178.29
RE DISCCART 453600.0 4614600.0 178.33 178.33
RE DISCCART 453700.0 4614600.0 178.35 178.35
RE DISCCART 453800.0 4614600.0 178.61 178.61
RE DISCCART 453900.0 4614600.0 178.92 178.92

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RE DISCCART	454000.0	4614600.0	175.99	179.37
RE DISCCART	454100.0	4614600.0	175.6	178.19
RE DISCCART	454600.0	4614600.0	178.19	178.19
RE DISCCART	454700.0	4614600.0	178.19	178.19
RE DISCCART	454800.0	4614600.0	178.19	178.19
RE DISCCART	454900.0	4614600.0	178.19	178.19
RE DISCCART	455000.0	4614600.0	178.19	178.19
RE DISCCART	455100.0	4614600.0	178.19	178.19
RE DISCCART	455200.0	4614600.0	178.19	178.19
RE DISCCART	455300.0	4614600.0	178.19	178.19
RE DISCCART	455400.0	4614600.0	178.19	178.19
RE DISCCART	455500.0	4614600.0	178.19	178.19
RE DISCCART	455600.0	4614600.0	178.19	178.19
RE DISCCART	455700.0	4614600.0	178.19	178.19
RE DISCCART	455800.0	4614600.0	178.19	178.19
RE DISCCART	455900.0	4614600.0	178.69	178.69
RE DISCCART	456000.0	4614600.0	178.19	178.19
RE DISCCART	456100.0	4614600.0	177.59	177.59
RE DISCCART	456200.0	4614600.0	177.82	177.82
RE DISCCART	456300.0	4614600.0	178.03	178.03
RE DISCCART	456400.0	4614600.0	180.27	180.27
RE DISCCART	456500.0	4614600.0	182.16	184.29
RE DISCCART	456600.0	4614600.0	178.17	178.17
RE DISCCART	452000.0	4614700.0	178.61	209.55
RE DISCCART	452100.0	4614700.0	182.05	209.9
RE DISCCART	452200.0	4614700.0	204.96	205.33
RE DISCCART	452300.0	4614700.0	209.03	209.03
RE DISCCART	452400.0	4614700.0	209.72	209.72
RE DISCCART	452500.0	4614700.0	206.37	206.67
RE DISCCART	452600.0	4614700.0	189.84	209.73
RE DISCCART	452700.0	4614700.0	181.74	209.73
RE DISCCART	452800.0	4614700.0	181.84	181.84
RE DISCCART	452900.0	4614700.0	179.74	179.74
RE DISCCART	453000.0	4614700.0	179.51	179.51
RE DISCCART	453100.0	4614700.0	177.25	177.25
RE DISCCART	453200.0	4614700.0	178.39	178.39
RE DISCCART	453300.0	4614700.0	178.39	178.39
RE DISCCART	453400.0	4614700.0	178.29	178.29
RE DISCCART	453500.0	4614700.0	178.29	178.29
RE DISCCART	453600.0	4614700.0	178.29	178.29
RE DISCCART	453700.0	4614700.0	178.49	178.49
RE DISCCART	453800.0	4614700.0	178.54	178.54
RE DISCCART	453900.0	4614700.0	178.7	178.7
RE DISCCART	454000.0	4614700.0	175.65	175.65
RE DISCCART	454100.0	4614700.0	178.51	178.51
RE DISCCART	454600.0	4614700.0	178.19	178.19
RE DISCCART	454700.0	4614700.0	178.19	178.19
RE DISCCART	454800.0	4614700.0	178.19	178.19

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RE DISCCART	454900.0	4614700.0	178.19	178.19
RE DISCCART	455000.0	4614700.0	178.19	178.19
RE DISCCART	455100.0	4614700.0	178.19	178.19
RE DISCCART	455200.0	4614700.0	178.19	178.19
RE DISCCART	455300.0	4614700.0	178.19	178.19
RE DISCCART	455400.0	4614700.0	178.19	178.19
RE DISCCART	455500.0	4614700.0	178.19	178.19
RE DISCCART	455600.0	4614700.0	178.19	178.19
RE DISCCART	455700.0	4614700.0	178.19	178.19
RE DISCCART	455800.0	4614700.0	178.19	178.19
RE DISCCART	455900.0	4614700.0	178.26	178.26
RE DISCCART	456000.0	4614700.0	178.19	178.19
RE DISCCART	456100.0	4614700.0	177.49	177.49
RE DISCCART	456200.0	4614700.0	177.74	177.74
RE DISCCART	456300.0	4614700.0	177.8	177.8
RE DISCCART	456400.0	4614700.0	180.18	180.18
RE DISCCART	456500.0	4614700.0	181.96	186.77
RE DISCCART	456600.0	4614700.0	178.38	186.77
RE DISCCART	452000.0	4614800.0	178.29	208.98
RE DISCCART	452100.0	4614800.0	180.94	209.9
RE DISCCART	452200.0	4614800.0	183.21	209.9
RE DISCCART	452300.0	4614800.0	200.55	209.75
RE DISCCART	452400.0	4614800.0	201.	209.89
RE DISCCART	452500.0	4614800.0	200.47	206.65
RE DISCCART	452600.0	4614800.0	187.78	209.75
RE DISCCART	452700.0	4614800.0	179.32	209.75
RE DISCCART	452800.0	4614800.0	183.44	183.44
RE DISCCART	452900.0	4614800.0	180.	180.
RE DISCCART	453000.0	4614800.0	178.29	178.29
RE DISCCART	453100.0	4614800.0	178.3	178.3
RE DISCCART	453200.0	4614800.0	178.29	178.29
RE DISCCART	453300.0	4614800.0	178.29	178.29
RE DISCCART	453400.0	4614800.0	178.29	178.29
RE DISCCART	453500.0	4614800.0	178.29	178.29
RE DISCCART	453600.0	4614800.0	178.29	178.29
RE DISCCART	453700.0	4614800.0	178.48	178.48
RE DISCCART	453800.0	4614800.0	178.49	178.49
RE DISCCART	453900.0	4614800.0	178.71	178.71
RE DISCCART	454000.0	4614800.0	175.37	175.37
RE DISCCART	454600.0	4614800.0	178.19	178.19
RE DISCCART	454700.0	4614800.0	178.19	178.19
RE DISCCART	454800.0	4614800.0	178.19	178.19
RE DISCCART	454900.0	4614800.0	178.19	178.19
RE DISCCART	455000.0	4614800.0	178.19	178.19
RE DISCCART	455100.0	4614800.0	178.19	178.19
RE DISCCART	455200.0	4614800.0	178.19	178.19
RE DISCCART	455300.0	4614800.0	178.19	178.19
RE DISCCART	455400.0	4614800.0	178.19	178.19

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RE DISCCART	455500.0	4614800.0	178.19	178.19
RE DISCCART	455600.0	4614800.0	178.19	178.19
RE DISCCART	455700.0	4614800.0	178.19	178.19
RE DISCCART	455800.0	4614800.0	178.19	178.19
RE DISCCART	455900.0	4614800.0	178.19	178.19
RE DISCCART	456000.0	4614800.0	178.23	178.23
RE DISCCART	456100.0	4614800.0	177.61	177.61
RE DISCCART	456200.0	4614800.0	177.43	177.43
RE DISCCART	456300.0	4614800.0	177.7	177.7
RE DISCCART	456400.0	4614800.0	180.12	180.12
RE DISCCART	456500.0	4614800.0	180.3	186.14
RE DISCCART	456600.0	4614800.0	178.78	186.03
RE DISCCART	452000.0	4614900.0	178.29	178.29
RE DISCCART	452100.0	4614900.0	178.31	209.84
RE DISCCART	452200.0	4614900.0	178.29	209.9
RE DISCCART	452300.0	4614900.0	178.3	209.9
RE DISCCART	452400.0	4614900.0	178.35	209.9
RE DISCCART	452500.0	4614900.0	178.44	209.9
RE DISCCART	452600.0	4614900.0	178.52	209.9
RE DISCCART	452700.0	4614900.0	178.29	206.67
RE DISCCART	452800.0	4614900.0	178.3	178.3
RE DISCCART	452900.0	4614900.0	178.32	178.32
RE DISCCART	453000.0	4614900.0	178.29	178.29
RE DISCCART	453100.0	4614900.0	178.29	178.29
RE DISCCART	453200.0	4614900.0	178.29	178.29
RE DISCCART	453300.0	4614900.0	178.29	178.29
RE DISCCART	453400.0	4614900.0	178.29	178.29
RE DISCCART	453500.0	4614900.0	178.29	178.29
RE DISCCART	453600.0	4614900.0	178.29	178.29
RE DISCCART	453700.0	4614900.0	178.49	178.49
RE DISCCART	453800.0	4614900.0	178.53	178.53
RE DISCCART	453900.0	4614900.0	178.34	178.34
RE DISCCART	454000.0	4614900.0	175.19	175.19
RE DISCCART	454600.0	4614900.0	178.19	178.19
RE DISCCART	454700.0	4614900.0	178.19	178.19
RE DISCCART	454800.0	4614900.0	178.19	178.19
RE DISCCART	454900.0	4614900.0	178.19	178.19
RE DISCCART	455000.0	4614900.0	178.19	178.19
RE DISCCART	455100.0	4614900.0	178.19	178.19
RE DISCCART	455200.0	4614900.0	178.19	178.19
RE DISCCART	455300.0	4614900.0	178.19	178.19
RE DISCCART	455400.0	4614900.0	178.19	178.19
RE DISCCART	455500.0	4614900.0	178.19	178.19
RE DISCCART	455600.0	4614900.0	178.19	178.19
RE DISCCART	455700.0	4614900.0	178.19	178.19
RE DISCCART	455800.0	4614900.0	178.19	178.19
RE DISCCART	455900.0	4614900.0	178.19	178.19
RE DISCCART	456000.0	4614900.0	178.19	178.19

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RE DISCCART	456100.0	4614900.0	178.65	178.65
RE DISCCART	456200.0	4614900.0	177.43	177.43
RE DISCCART	456300.0	4614900.0	177.7	177.7
RE DISCCART	456400.0	4614900.0	179.63	179.63
RE DISCCART	456500.0	4614900.0	179.68	184.84
RE DISCCART	456600.0	4614900.0	178.98	184.25
RE DISCCART	452000.0	4615000.0	178.29	178.29
RE DISCCART	452100.0	4615000.0	178.29	178.29
RE DISCCART	452200.0	4615000.0	178.29	209.75
RE DISCCART	452300.0	4615000.0	178.29	209.9
RE DISCCART	452400.0	4615000.0	178.29	209.9
RE DISCCART	452500.0	4615000.0	178.29	209.89
RE DISCCART	452600.0	4615000.0	178.29	209.75
RE DISCCART	452700.0	4615000.0	178.29	178.29
RE DISCCART	452800.0	4615000.0	178.29	178.29
RE DISCCART	452900.0	4615000.0	178.29	178.29
RE DISCCART	453000.0	4615000.0	178.29	178.29
RE DISCCART	453100.0	4615000.0	178.29	178.29
RE DISCCART	453200.0	4615000.0	178.29	178.29
RE DISCCART	453300.0	4615000.0	178.29	178.29
RE DISCCART	453400.0	4615000.0	178.29	178.29
RE DISCCART	453500.0	4615000.0	178.29	178.29
RE DISCCART	453600.0	4615000.0	178.29	178.29
RE DISCCART	453700.0	4615000.0	178.39	178.39
RE DISCCART	453800.0	4615000.0	178.39	178.39
RE DISCCART	453900.0	4615000.0	178.42	178.42
RE DISCCART	454000.0	4615000.0	175.19	175.19
RE DISCCART	454600.0	4615000.0	178.19	178.19
RE DISCCART	454700.0	4615000.0	178.19	178.19
RE DISCCART	454800.0	4615000.0	178.27	178.27
RE DISCCART	454900.0	4615000.0	178.19	178.19
RE DISCCART	455000.0	4615000.0	178.19	178.19
RE DISCCART	455100.0	4615000.0	178.19	178.19
RE DISCCART	455200.0	4615000.0	178.19	178.19
RE DISCCART	455300.0	4615000.0	178.19	178.19
RE DISCCART	455400.0	4615000.0	178.19	178.19
RE DISCCART	455500.0	4615000.0	178.19	178.19
RE DISCCART	455600.0	4615000.0	178.19	178.19
RE DISCCART	455700.0	4615000.0	178.19	178.19
RE DISCCART	455800.0	4615000.0	178.19	178.19
RE DISCCART	455900.0	4615000.0	178.19	178.19
RE DISCCART	456000.0	4615000.0	178.19	178.19
RE DISCCART	456100.0	4615000.0	178.05	178.05
RE DISCCART	456200.0	4615000.0	178.26	178.26
RE DISCCART	456300.0	4615000.0	177.64	177.64
RE DISCCART	456400.0	4615000.0	179.49	179.49
RE DISCCART	456500.0	4615000.0	179.26	182.74
RE DISCCART	456600.0	4615000.0	179.42	182.36

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RE DISCCART	452000.0	4615100.0	178.29	178.29
RE DISCCART	452100.0	4615100.0	177.98	177.98
RE DISCCART	452200.0	4615100.0	177.62	177.62
RE DISCCART	452300.0	4615100.0	178.29	178.29
RE DISCCART	452400.0	4615100.0	178.29	178.29
RE DISCCART	452500.0	4615100.0	178.29	178.29
RE DISCCART	452600.0	4615100.0	178.29	178.29
RE DISCCART	452700.0	4615100.0	178.29	178.29
RE DISCCART	452800.0	4615100.0	178.29	178.29
RE DISCCART	452900.0	4615100.0	178.29	178.29
RE DISCCART	453000.0	4615100.0	178.29	178.29
RE DISCCART	453100.0	4615100.0	178.34	178.34
RE DISCCART	453200.0	4615100.0	178.39	178.39
RE DISCCART	453300.0	4615100.0	178.29	178.29
RE DISCCART	453400.0	4615100.0	178.29	178.29
RE DISCCART	453500.0	4615100.0	178.29	178.29
RE DISCCART	453600.0	4615100.0	178.29	178.29
RE DISCCART	453700.0	4615100.0	178.29	178.29
RE DISCCART	453800.0	4615100.0	178.29	178.29
RE DISCCART	453900.0	4615100.0	178.29	178.29
RE DISCCART	454000.0	4615100.0	175.19	175.19
RE DISCCART	454100.0	4615100.0	178.18	178.18
RE DISCCART	454600.0	4615100.0	178.19	178.19
RE DISCCART	454700.0	4615100.0	178.19	178.19
RE DISCCART	454800.0	4615100.0	178.19	178.19
RE DISCCART	454900.0	4615100.0	178.19	178.19
RE DISCCART	455000.0	4615100.0	178.19	178.19
RE DISCCART	455100.0	4615100.0	178.19	178.19
RE DISCCART	455200.0	4615100.0	178.19	178.19
RE DISCCART	455300.0	4615100.0	178.19	178.19
RE DISCCART	455400.0	4615100.0	178.19	178.19
RE DISCCART	455500.0	4615100.0	178.19	178.19
RE DISCCART	455600.0	4615100.0	178.19	178.19
RE DISCCART	455700.0	4615100.0	178.19	178.19
RE DISCCART	455800.0	4615100.0	178.19	178.19
RE DISCCART	455900.0	4615100.0	178.19	178.19
RE DISCCART	456000.0	4615100.0	178.19	178.19
RE DISCCART	456100.0	4615100.0	177.83	177.83
RE DISCCART	456200.0	4615100.0	177.91	177.91
RE DISCCART	456300.0	4615100.0	177.88	177.88
RE DISCCART	456400.0	4615100.0	179.68	179.68
RE DISCCART	456500.0	4615100.0	179.97	179.97
RE DISCCART	456600.0	4615100.0	179.97	179.97
RE DISCCART	452000.0	4615200.0	178.29	178.29
RE DISCCART	452100.0	4615200.0	177.59	177.59
RE DISCCART	452200.0	4615200.0	178.28	178.28
RE DISCCART	452300.0	4615200.0	178.29	178.29
RE DISCCART	452400.0	4615200.0	178.29	178.29

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RE DISCCART	452500.0	4615200.0	178.29	178.29
RE DISCCART	452600.0	4615200.0	178.29	178.29
RE DISCCART	452700.0	4615200.0	178.29	178.29
RE DISCCART	452800.0	4615200.0	178.29	178.29
RE DISCCART	452900.0	4615200.0	178.29	178.29
RE DISCCART	453000.0	4615200.0	178.29	178.29
RE DISCCART	453100.0	4615200.0	178.33	178.33
RE DISCCART	453200.0	4615200.0	178.49	178.49
RE DISCCART	453300.0	4615200.0	178.29	178.29
RE DISCCART	453400.0	4615200.0	178.29	178.29
RE DISCCART	453500.0	4615200.0	178.29	178.29
RE DISCCART	453600.0	4615200.0	178.29	178.29
RE DISCCART	453700.0	4615200.0	178.29	178.29
RE DISCCART	453800.0	4615200.0	178.29	178.29
RE DISCCART	453900.0	4615200.0	178.32	178.32
RE DISCCART	454000.0	4615200.0	175.53	175.53
RE DISCCART	454100.0	4615200.0	178.1	178.1
RE DISCCART	454200.0	4615200.0	178.19	178.19
RE DISCCART	454600.0	4615200.0	178.19	178.19
RE DISCCART	454700.0	4615200.0	178.19	178.19
RE DISCCART	454800.0	4615200.0	178.19	178.19
RE DISCCART	454900.0	4615200.0	178.19	178.19
RE DISCCART	455000.0	4615200.0	178.19	178.19
RE DISCCART	455100.0	4615200.0	178.19	178.19
RE DISCCART	455200.0	4615200.0	178.19	178.19
RE DISCCART	455300.0	4615200.0	178.19	178.19
RE DISCCART	455400.0	4615200.0	178.19	178.19
RE DISCCART	455500.0	4615200.0	178.19	178.19
RE DISCCART	455600.0	4615200.0	178.19	178.19
RE DISCCART	455700.0	4615200.0	178.19	178.19
RE DISCCART	455800.0	4615200.0	178.19	178.19
RE DISCCART	455900.0	4615200.0	178.19	178.19
RE DISCCART	456000.0	4615200.0	178.19	178.19
RE DISCCART	456100.0	4615200.0	178.08	178.08
RE DISCCART	456200.0	4615200.0	178.2	178.2
RE DISCCART	456300.0	4615200.0	177.94	177.94
RE DISCCART	456400.0	4615200.0	179.33	179.33
RE DISCCART	456500.0	4615200.0	181.3	181.3
RE DISCCART	456600.0	4615200.0	181.38	181.38
RE DISCCART	452000.0	4615300.0	178.29	178.29
RE DISCCART	452100.0	4615300.0	177.34	177.34
RE DISCCART	452200.0	4615300.0	178.29	178.29
RE DISCCART	452300.0	4615300.0	177.69	177.69
RE DISCCART	452400.0	4615300.0	177.71	177.71
RE DISCCART	452500.0	4615300.0	177.73	177.73
RE DISCCART	452600.0	4615300.0	177.75	177.75
RE DISCCART	452700.0	4615300.0	178.29	178.29
RE DISCCART	452800.0	4615300.0	178.29	178.29

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RE DISCCART	452900.0	4615300.0	178.29	178.29
RE DISCCART	453000.0	4615300.0	178.29	178.29
RE DISCCART	453100.0	4615300.0	178.36	178.36
RE DISCCART	453200.0	4615300.0	178.6	178.6
RE DISCCART	453300.0	4615300.0	178.46	178.46
RE DISCCART	453400.0	4615300.0	178.29	178.29
RE DISCCART	453500.0	4615300.0	178.29	178.29
RE DISCCART	453600.0	4615300.0	178.29	178.29
RE DISCCART	453700.0	4615300.0	178.29	178.29
RE DISCCART	453800.0	4615300.0	178.29	178.29
RE DISCCART	453900.0	4615300.0	178.42	178.42
RE DISCCART	454000.0	4615300.0	175.46	175.46
RE DISCCART	454100.0	4615300.0	178.41	178.41
RE DISCCART	454200.0	4615300.0	178.19	178.19
RE DISCCART	454300.0	4615300.0	178.19	178.19
RE DISCCART	454400.0	4615300.0	178.19	178.19
RE DISCCART	454500.0	4615300.0	178.19	178.19
RE DISCCART	454600.0	4615300.0	178.19	178.19
RE DISCCART	454700.0	4615300.0	178.19	178.19
RE DISCCART	454800.0	4615300.0	178.19	178.19
RE DISCCART	454900.0	4615300.0	178.19	178.19
RE DISCCART	455000.0	4615300.0	178.19	178.19
RE DISCCART	455100.0	4615300.0	178.19	178.19
RE DISCCART	455200.0	4615300.0	178.19	178.19
RE DISCCART	455300.0	4615300.0	178.19	178.19
RE DISCCART	455400.0	4615300.0	178.19	178.19
RE DISCCART	455500.0	4615300.0	178.19	178.19
RE DISCCART	455600.0	4615300.0	178.19	178.19
RE DISCCART	455700.0	4615300.0	178.19	178.19
RE DISCCART	455800.0	4615300.0	178.19	178.19
RE DISCCART	455900.0	4615300.0	178.19	178.19
RE DISCCART	456000.0	4615300.0	178.19	178.19
RE DISCCART	456100.0	4615300.0	178.26	178.26
RE DISCCART	456200.0	4615300.0	178.21	178.21
RE DISCCART	456300.0	4615300.0	177.86	177.86
RE DISCCART	456400.0	4615300.0	179.55	179.55
RE DISCCART	456500.0	4615300.0	182.27	182.27
RE DISCCART	456600.0	4615300.0	181.83	181.83
RE DISCCART	452000.0	4615400.0	178.29	178.29
RE DISCCART	452100.0	4615400.0	178.16	178.16
RE DISCCART	452200.0	4615400.0	177.99	177.99
RE DISCCART	452300.0	4615400.0	176.99	176.99
RE DISCCART	452400.0	4615400.0	176.99	176.99
RE DISCCART	452500.0	4615400.0	176.99	176.99
RE DISCCART	452600.0	4615400.0	177.01	177.01
RE DISCCART	452700.0	4615400.0	177.09	177.09
RE DISCCART	452800.0	4615400.0	176.99	176.99
RE DISCCART	452900.0	4615400.0	178.29	178.29

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RE DISCCART	453000.0	4615400.0	178.29	178.29
RE DISCCART	453100.0	4615400.0	178.38	178.38
RE DISCCART	453200.0	4615400.0	178.54	178.54
RE DISCCART	453300.0	4615400.0	178.63	178.63
RE DISCCART	453400.0	4615400.0	178.29	178.29
RE DISCCART	453500.0	4615400.0	178.29	178.29
RE DISCCART	453600.0	4615400.0	178.34	178.34
RE DISCCART	453700.0	4615400.0	178.29	178.29
RE DISCCART	453800.0	4615400.0	178.39	178.39
RE DISCCART	453900.0	4615400.0	178.44	178.44
RE DISCCART	454000.0	4615400.0	175.42	175.42
RE DISCCART	454100.0	4615400.0	178.56	178.56
RE DISCCART	454200.0	4615400.0	178.19	178.19
RE DISCCART	454300.0	4615400.0	178.19	178.19
RE DISCCART	454400.0	4615400.0	178.19	178.19
RE DISCCART	454500.0	4615400.0	178.19	178.19
RE DISCCART	454600.0	4615400.0	178.19	178.19
RE DISCCART	454700.0	4615400.0	178.19	178.19
RE DISCCART	454800.0	4615400.0	178.19	178.19
RE DISCCART	454900.0	4615400.0	178.19	178.19
RE DISCCART	455000.0	4615400.0	178.19	178.19
RE DISCCART	455100.0	4615400.0	178.19	178.19
RE DISCCART	455200.0	4615400.0	178.19	178.19
RE DISCCART	455300.0	4615400.0	178.19	178.19
RE DISCCART	455400.0	4615400.0	178.19	178.19
RE DISCCART	455500.0	4615400.0	178.19	178.19
RE DISCCART	455600.0	4615400.0	178.19	178.19
RE DISCCART	455700.0	4615400.0	178.19	178.19
RE DISCCART	455800.0	4615400.0	178.19	178.19
RE DISCCART	455900.0	4615400.0	178.19	178.19
RE DISCCART	456000.0	4615400.0	178.19	178.19
RE DISCCART	456100.0	4615400.0	178.21	178.21
RE DISCCART	456200.0	4615400.0	178.22	178.22
RE DISCCART	456300.0	4615400.0	177.8	177.8
RE DISCCART	456400.0	4615400.0	179.57	179.57
RE DISCCART	456500.0	4615400.0	181.06	181.06
RE DISCCART	456600.0	4615400.0	182.26	182.26
RE DISCCART	452000.0	4615500.0	178.29	178.29
RE DISCCART	452100.0	4615500.0	178.29	178.29
RE DISCCART	452200.0	4615500.0	178.29	178.29
RE DISCCART	452300.0	4615500.0	176.99	176.99
RE DISCCART	452400.0	4615500.0	176.99	176.99
RE DISCCART	452500.0	4615500.0	176.99	176.99
RE DISCCART	452600.0	4615500.0	178.29	178.29
RE DISCCART	452700.0	4615500.0	176.99	176.99
RE DISCCART	452800.0	4615500.0	176.99	176.99
RE DISCCART	452900.0	4615500.0	178.29	178.29
RE DISCCART	453000.0	4615500.0	178.29	178.29

Phosphorus_2015_OTHER.DTA

RE DISCCART	453100.0	4615500.0	178.39	178.39
RE DISCCART	453200.0	4615500.0	178.6	178.6
RE DISCCART	453300.0	4615500.0	178.68	178.68
RE DISCCART	453400.0	4615500.0	178.35	178.35
RE DISCCART	453500.0	4615500.0	178.29	178.29
RE DISCCART	453600.0	4615500.0	178.58	178.58
RE DISCCART	453700.0	4615500.0	178.42	178.42
RE DISCCART	453800.0	4615500.0	178.58	178.58
RE DISCCART	453900.0	4615500.0	178.31	178.31
RE DISCCART	454000.0	4615500.0	175.62	178.29
RE DISCCART	454100.0	4615500.0	176.8	176.8
RE DISCCART	454200.0	4615500.0	178.19	178.19
RE DISCCART	454300.0	4615500.0	178.19	178.19
RE DISCCART	454400.0	4615500.0	178.19	178.19
RE DISCCART	454500.0	4615500.0	178.19	178.19
RE DISCCART	454600.0	4615500.0	178.19	178.19
RE DISCCART	454700.0	4615500.0	178.19	178.19
RE DISCCART	454800.0	4615500.0	178.19	178.19
RE DISCCART	454900.0	4615500.0	178.19	178.19
RE DISCCART	455000.0	4615500.0	178.19	178.19
RE DISCCART	455100.0	4615500.0	178.19	178.19
RE DISCCART	455200.0	4615500.0	178.19	178.19
RE DISCCART	455300.0	4615500.0	178.19	178.19
RE DISCCART	455400.0	4615500.0	178.19	178.19
RE DISCCART	455500.0	4615500.0	178.19	178.19
RE DISCCART	455600.0	4615500.0	178.19	178.19
RE DISCCART	455700.0	4615500.0	178.19	178.19
RE DISCCART	455800.0	4615500.0	178.19	178.19
RE DISCCART	455900.0	4615500.0	178.19	178.19
RE DISCCART	456000.0	4615500.0	178.19	178.19
RE DISCCART	456100.0	4615500.0	177.86	177.86
RE DISCCART	456200.0	4615500.0	178.22	178.22
RE DISCCART	456300.0	4615500.0	177.49	177.49
RE DISCCART	456400.0	4615500.0	178.8	178.8
RE DISCCART	456500.0	4615500.0	179.85	183.18
RE DISCCART	456600.0	4615500.0	179.81	183.26
RE DISCCART	452000.0	4615600.0	178.29	178.29
RE DISCCART	452100.0	4615600.0	178.29	178.29
RE DISCCART	452200.0	4615600.0	178.29	178.29
RE DISCCART	452300.0	4615600.0	176.99	176.99
RE DISCCART	452400.0	4615600.0	177.84	177.84
RE DISCCART	452500.0	4615600.0	176.99	176.99
RE DISCCART	452600.0	4615600.0	176.99	176.99
RE DISCCART	452700.0	4615600.0	177.97	177.97
RE DISCCART	452800.0	4615600.0	177.89	177.89
RE DISCCART	452900.0	4615600.0	178.29	178.29
RE DISCCART	453000.0	4615600.0	178.29	178.29
RE DISCCART	453100.0	4615600.0	178.45	178.45

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RE DISCCART	453200.0	4615600.0	178.69	178.69
RE DISCCART	453300.0	4615600.0	178.82	178.82
RE DISCCART	453400.0	4615600.0	178.85	178.85
RE DISCCART	453500.0	4615600.0	178.71	178.71
RE DISCCART	453600.0	4615600.0	178.84	178.84
RE DISCCART	453700.0	4615600.0	178.84	178.84
RE DISCCART	453800.0	4615600.0	178.72	178.72
RE DISCCART	453900.0	4615600.0	178.45	178.45
RE DISCCART	454000.0	4615600.0	176.58	176.58
RE DISCCART	454100.0	4615600.0	177.2	177.2
RE DISCCART	454200.0	4615600.0	178.19	178.19
RE DISCCART	454300.0	4615600.0	178.19	178.19
RE DISCCART	454400.0	4615600.0	178.19	178.19
RE DISCCART	454500.0	4615600.0	178.19	178.19
RE DISCCART	454600.0	4615600.0	178.19	178.19
RE DISCCART	454700.0	4615600.0	178.19	178.19
RE DISCCART	454800.0	4615600.0	178.19	178.19
RE DISCCART	454900.0	4615600.0	178.19	178.19
RE DISCCART	455000.0	4615600.0	178.19	178.19
RE DISCCART	455100.0	4615600.0	178.19	178.19
RE DISCCART	455200.0	4615600.0	178.19	178.19
RE DISCCART	455300.0	4615600.0	178.19	178.19
RE DISCCART	455400.0	4615600.0	178.19	178.19
RE DISCCART	455500.0	4615600.0	178.19	178.19
RE DISCCART	455600.0	4615600.0	178.19	178.19
RE DISCCART	455700.0	4615600.0	178.19	178.19
RE DISCCART	455800.0	4615600.0	178.19	178.19
RE DISCCART	455900.0	4615600.0	178.19	178.19
RE DISCCART	456000.0	4615600.0	178.19	178.19
RE DISCCART	456100.0	4615600.0	177.52	177.52
RE DISCCART	456200.0	4615600.0	178.02	178.02
RE DISCCART	456300.0	4615600.0	178.38	178.38
RE DISCCART	456400.0	4615600.0	178.77	178.77
RE DISCCART	456500.0	4615600.0	179.03	183.54
RE DISCCART	456600.0	4615600.0	178.87	183.7
RE DISCCART	452000.0	4615700.0	178.29	178.29
RE DISCCART	452100.0	4615700.0	178.29	178.29
RE DISCCART	452200.0	4615700.0	178.29	178.29
RE DISCCART	452300.0	4615700.0	177.57	177.57
RE DISCCART	452400.0	4615700.0	177.7	177.7
RE DISCCART	452500.0	4615700.0	176.99	176.99
RE DISCCART	452600.0	4615700.0	176.99	176.99
RE DISCCART	452700.0	4615700.0	176.99	176.99
RE DISCCART	452800.0	4615700.0	177.16	177.16
RE DISCCART	452900.0	4615700.0	176.99	176.99
RE DISCCART	453000.0	4615700.0	178.29	178.29
RE DISCCART	453100.0	4615700.0	178.45	178.45
RE DISCCART	453200.0	4615700.0	178.79	178.79

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RE DISCCART	453300.0	4615700.0	179.01	179.01
RE DISCCART	453400.0	4615700.0	179.16	179.16
RE DISCCART	453500.0	4615700.0	179.17	179.17
RE DISCCART	453600.0	4615700.0	179.14	179.14
RE DISCCART	453700.0	4615700.0	179.07	179.07
RE DISCCART	453800.0	4615700.0	178.8	178.8
RE DISCCART	453900.0	4615700.0	178.39	178.39
RE DISCCART	454000.0	4615700.0	177.6	177.6
RE DISCCART	454100.0	4615700.0	175.19	178.41
RE DISCCART	454200.0	4615700.0	178.19	178.19
RE DISCCART	454300.0	4615700.0	178.19	178.19
RE DISCCART	454400.0	4615700.0	178.19	178.19
RE DISCCART	454500.0	4615700.0	178.19	178.19
RE DISCCART	454600.0	4615700.0	178.19	178.19
RE DISCCART	454700.0	4615700.0	178.19	178.19
RE DISCCART	454800.0	4615700.0	178.19	178.19
RE DISCCART	454900.0	4615700.0	178.19	178.19
RE DISCCART	455000.0	4615700.0	178.19	178.19
RE DISCCART	455100.0	4615700.0	178.19	178.19
RE DISCCART	455200.0	4615700.0	178.19	178.19
RE DISCCART	455300.0	4615700.0	178.19	178.19
RE DISCCART	455400.0	4615700.0	178.19	178.19
RE DISCCART	455500.0	4615700.0	178.19	178.19
RE DISCCART	455600.0	4615700.0	178.19	178.19
RE DISCCART	455700.0	4615700.0	178.19	178.19
RE DISCCART	455800.0	4615700.0	178.19	178.19
RE DISCCART	455900.0	4615700.0	178.19	178.19
RE DISCCART	456000.0	4615700.0	178.19	178.19
RE DISCCART	456100.0	4615700.0	178.5	178.5
RE DISCCART	456200.0	4615700.0	178.59	178.59
RE DISCCART	456300.0	4615700.0	178.59	178.59
RE DISCCART	456400.0	4615700.0	178.48	178.48
RE DISCCART	456500.0	4615700.0	178.32	183.58
RE DISCCART	456600.0	4615700.0	178.79	183.72
RE DISCCART	452000.0	4615800.0	178.29	178.29
RE DISCCART	452100.0	4615800.0	178.29	178.29
RE DISCCART	452200.0	4615800.0	178.29	178.29
RE DISCCART	452300.0	4615800.0	176.99	176.99
RE DISCCART	452400.0	4615800.0	178.29	178.29
RE DISCCART	452500.0	4615800.0	178.29	178.29
RE DISCCART	452600.0	4615800.0	178.29	178.29
RE DISCCART	452700.0	4615800.0	176.99	176.99
RE DISCCART	452800.0	4615800.0	177.73	177.73
RE DISCCART	452900.0	4615800.0	178.29	178.29
RE DISCCART	453000.0	4615800.0	178.29	178.29
RE DISCCART	453100.0	4615800.0	178.45	178.45
RE DISCCART	453200.0	4615800.0	178.78	178.78
RE DISCCART	453300.0	4615800.0	179.01	179.01

Phosphorus_2015_OTHER.DTA

RE DISCCART 453400.0 4615800.0 179. 179.
RE DISCCART 453500.0 4615800.0 179.4 179.4
RE DISCCART 453600.0 4615800.0 179.39 179.39
RE DISCCART 453700.0 4615800.0 179.25 179.25
RE DISCCART 453800.0 4615800.0 178.55 178.55
RE DISCCART 453900.0 4615800.0 178.36 178.36
RE DISCCART 454000.0 4615800.0 176.8 178.29
RE DISCCART 454100.0 4615800.0 175.19 178.09
RE DISCCART 454200.0 4615800.0 178.19 178.19
RE DISCCART 454300.0 4615800.0 178.19 178.19
RE DISCCART 454400.0 4615800.0 178.19 178.19
RE DISCCART 454500.0 4615800.0 178.19 178.19
RE DISCCART 454600.0 4615800.0 178.19 178.19
RE DISCCART 454700.0 4615800.0 178.19 178.19
RE DISCCART 454800.0 4615800.0 178.19 178.19
RE DISCCART 454900.0 4615800.0 178.19 178.19
RE DISCCART 455000.0 4615800.0 178.19 178.19
RE DISCCART 455100.0 4615800.0 178.19 178.19
RE DISCCART 455200.0 4615800.0 178.19 178.19
RE DISCCART 455300.0 4615800.0 178.19 178.19
RE DISCCART 455400.0 4615800.0 178.19 178.19
RE DISCCART 455500.0 4615800.0 178.19 178.19
RE DISCCART 455600.0 4615800.0 178.19 178.19
RE DISCCART 455700.0 4615800.0 178.19 178.19
RE DISCCART 455800.0 4615800.0 178.19 178.19
RE DISCCART 455900.0 4615800.0 178.19 178.19
RE DISCCART 456000.0 4615800.0 178.19 178.19
RE DISCCART 456100.0 4615800.0 178.01 178.01
RE DISCCART 456200.0 4615800.0 178.28 178.28
RE DISCCART 456300.0 4615800.0 178.36 178.36
RE DISCCART 456400.0 4615800.0 178.53 178.53
RE DISCCART 456500.0 4615800.0 178.37 183.37
RE DISCCART 456600.0 4615800.0 179.34 183.68
RE DISCCART 452000.0 4615900.0 178.29 178.29
RE DISCCART 452100.0 4615900.0 178.29 178.29
RE DISCCART 452200.0 4615900.0 178.29 178.29
RE DISCCART 452300.0 4615900.0 178.29 178.29
RE DISCCART 452400.0 4615900.0 178.29 178.29
RE DISCCART 452500.0 4615900.0 178.29 178.29
RE DISCCART 452600.0 4615900.0 177.89 177.89
RE DISCCART 452700.0 4615900.0 176.99 176.99
RE DISCCART 452800.0 4615900.0 178.24 178.24
RE DISCCART 452900.0 4615900.0 178.29 178.29
RE DISCCART 453000.0 4615900.0 178.29 178.29
RE DISCCART 453100.0 4615900.0 178.45 178.45
RE DISCCART 453200.0 4615900.0 178.78 178.78
RE DISCCART 453300.0 4615900.0 179.08 179.08
RE DISCCART 453400.0 4615900.0 179.03 179.03

Phosphorus_2015_OTHER.DTA

RE DISCCART	453500.0	4615900.0	179.3	179.3
RE DISCCART	453600.0	4615900.0	179.59	179.59
RE DISCCART	453700.0	4615900.0	177.94	177.94
RE DISCCART	453800.0	4615900.0	177.79	177.79
RE DISCCART	453900.0	4615900.0	177.81	177.81
RE DISCCART	454000.0	4615900.0	175.38	175.38
RE DISCCART	454100.0	4615900.0	175.19	178.66
RE DISCCART	454200.0	4615900.0	178.22	178.22
RE DISCCART	454300.0	4615900.0	178.19	178.19
RE DISCCART	454400.0	4615900.0	178.19	178.19
RE DISCCART	454500.0	4615900.0	178.19	178.19
RE DISCCART	454600.0	4615900.0	178.19	178.19
RE DISCCART	454700.0	4615900.0	178.19	178.19
RE DISCCART	454800.0	4615900.0	178.19	178.19
RE DISCCART	454900.0	4615900.0	178.19	178.19
RE DISCCART	455000.0	4615900.0	178.19	178.19
RE DISCCART	455100.0	4615900.0	178.19	178.19
RE DISCCART	455200.0	4615900.0	178.19	178.19
RE DISCCART	455300.0	4615900.0	178.19	178.19
RE DISCCART	455400.0	4615900.0	178.19	178.19
RE DISCCART	455500.0	4615900.0	178.19	178.19
RE DISCCART	455600.0	4615900.0	178.19	178.19
RE DISCCART	455700.0	4615900.0	178.19	178.19
RE DISCCART	455800.0	4615900.0	178.19	178.19
RE DISCCART	455900.0	4615900.0	178.19	178.19
RE DISCCART	456000.0	4615900.0	178.19	178.19
RE DISCCART	456100.0	4615900.0	178.02	178.02
RE DISCCART	456200.0	4615900.0	178.19	178.19
RE DISCCART	456300.0	4615900.0	178.28	178.28
RE DISCCART	456400.0	4615900.0	178.33	178.33
RE DISCCART	456500.0	4615900.0	179.93	179.93
RE DISCCART	456600.0	4615900.0	179.18	183.16
RE DISCCART	452000.0	4616000.0	178.44	178.44
RE DISCCART	452100.0	4616000.0	178.29	178.29
RE DISCCART	452200.0	4616000.0	178.29	178.29
RE DISCCART	452300.0	4616000.0	178.29	178.29
RE DISCCART	452400.0	4616000.0	178.29	178.29
RE DISCCART	452500.0	4616000.0	178.29	178.29
RE DISCCART	452600.0	4616000.0	176.99	176.99
RE DISCCART	452700.0	4616000.0	176.99	176.99
RE DISCCART	452800.0	4616000.0	177.95	177.95
RE DISCCART	452900.0	4616000.0	177.18	177.18
RE DISCCART	453000.0	4616000.0	178.29	178.29
RE DISCCART	453100.0	4616000.0	178.45	178.45
RE DISCCART	453200.0	4616000.0	178.78	178.78
RE DISCCART	453300.0	4616000.0	179.1	179.1
RE DISCCART	453400.0	4616000.0	179.4	179.4
RE DISCCART	453500.0	4616000.0	179.68	179.68

Phosphorus_2015_OTHER.DTA

RE DISCCART	453600.0	4616000.0	179.95	179.95
RE DISCCART	453700.0	4616000.0	178.75	178.75
RE DISCCART	453800.0	4616000.0	178.76	178.76
RE DISCCART	453900.0	4616000.0	178.78	178.78
RE DISCCART	454000.0	4616000.0	175.19	175.19
RE DISCCART	454100.0	4616000.0	177.71	177.71
RE DISCCART	454200.0	4616000.0	178.25	178.25
RE DISCCART	454300.0	4616000.0	178.19	178.19
RE DISCCART	454400.0	4616000.0	178.19	178.19
RE DISCCART	454500.0	4616000.0	178.19	178.19
RE DISCCART	454600.0	4616000.0	178.19	178.19
RE DISCCART	454700.0	4616000.0	178.19	178.19
RE DISCCART	454800.0	4616000.0	178.19	178.19
RE DISCCART	454900.0	4616000.0	178.19	178.19
RE DISCCART	455000.0	4616000.0	178.19	178.19
RE DISCCART	455100.0	4616000.0	178.19	178.19
RE DISCCART	455200.0	4616000.0	178.19	178.19
RE DISCCART	455300.0	4616000.0	178.19	178.19
RE DISCCART	455400.0	4616000.0	178.19	178.19
RE DISCCART	455500.0	4616000.0	178.19	178.19
RE DISCCART	455600.0	4616000.0	178.19	178.19
RE DISCCART	455700.0	4616000.0	178.19	178.19
RE DISCCART	455800.0	4616000.0	178.19	178.19
RE DISCCART	455900.0	4616000.0	178.19	178.19
RE DISCCART	456000.0	4616000.0	178.19	178.19
RE DISCCART	456100.0	4616000.0	178.04	178.04
RE DISCCART	456200.0	4616000.0	178.2	178.2
RE DISCCART	456300.0	4616000.0	178.58	178.58
RE DISCCART	456400.0	4616000.0	178.22	178.22
RE DISCCART	456500.0	4616000.0	179.4	179.4
RE DISCCART	456600.0	4616000.0	179.78	182.42
RE DISCCART	452000.0	4616100.0	179.38	179.38
RE DISCCART	452100.0	4616100.0	178.29	178.29
RE DISCCART	452200.0	4616100.0	178.29	178.29
RE DISCCART	452300.0	4616100.0	178.29	178.29
RE DISCCART	452400.0	4616100.0	177.72	177.72
RE DISCCART	452500.0	4616100.0	177.71	177.71
RE DISCCART	452600.0	4616100.0	176.99	176.99
RE DISCCART	452700.0	4616100.0	177.57	177.57
RE DISCCART	452800.0	4616100.0	177.92	177.92
RE DISCCART	452900.0	4616100.0	178.1	178.1
RE DISCCART	453000.0	4616100.0	178.29	178.29
RE DISCCART	453100.0	4616100.0	178.35	178.35
RE DISCCART	453200.0	4616100.0	178.39	178.39
RE DISCCART	453300.0	4616100.0	178.46	178.46
RE DISCCART	453400.0	4616100.0	178.57	178.57
RE DISCCART	453500.0	4616100.0	179.71	179.71
RE DISCCART	453600.0	4616100.0	180.22	180.22

Phosphorus_2015_OTHER.DTA

RE DISCCART	453700.0	4616100.0	180.5	180.5
RE DISCCART	453800.0	4616100.0	180.33	180.33
RE DISCCART	453900.0	4616100.0	180.15	180.15
RE DISCCART	454000.0	4616100.0	175.19	175.19
RE DISCCART	454100.0	4616100.0	178.19	178.19
RE DISCCART	454200.0	4616100.0	178.19	178.19
RE DISCCART	454300.0	4616100.0	178.29	178.29
RE DISCCART	454400.0	4616100.0	178.19	178.19
RE DISCCART	454500.0	4616100.0	178.19	178.19
RE DISCCART	454600.0	4616100.0	178.19	178.19
RE DISCCART	454700.0	4616100.0	178.19	178.19
RE DISCCART	454800.0	4616100.0	178.19	178.19
RE DISCCART	454900.0	4616100.0	178.19	178.19
RE DISCCART	455000.0	4616100.0	178.19	178.19
RE DISCCART	455100.0	4616100.0	178.19	178.19
RE DISCCART	455200.0	4616100.0	178.19	178.19
RE DISCCART	455300.0	4616100.0	178.19	178.19
RE DISCCART	455400.0	4616100.0	178.38	178.38
RE DISCCART	455500.0	4616100.0	178.19	178.19
RE DISCCART	455600.0	4616100.0	178.19	178.19
RE DISCCART	455700.0	4616100.0	178.19	178.19
RE DISCCART	455800.0	4616100.0	178.19	178.19
RE DISCCART	455900.0	4616100.0	178.19	178.19
RE DISCCART	456000.0	4616100.0	178.19	178.19
RE DISCCART	456100.0	4616100.0	178.09	178.09
RE DISCCART	456200.0	4616100.0	178.27	178.27
RE DISCCART	456300.0	4616100.0	178.45	178.45
RE DISCCART	456400.0	4616100.0	178.37	178.37
RE DISCCART	456500.0	4616100.0	178.99	178.99
RE DISCCART	456600.0	4616100.0	180.69	180.69
RE DISCCART	452000.0	4616200.0	179.62	179.62
RE DISCCART	452100.0	4616200.0	178.64	178.64
RE DISCCART	452200.0	4616200.0	178.38	178.38
RE DISCCART	452300.0	4616200.0	178.29	178.29
RE DISCCART	452400.0	4616200.0	178.29	178.29
RE DISCCART	452500.0	4616200.0	178.31	178.31
RE DISCCART	452600.0	4616200.0	178.37	178.37
RE DISCCART	452700.0	4616200.0	178.31	178.31
RE DISCCART	452800.0	4616200.0	178.29	178.29
RE DISCCART	452900.0	4616200.0	178.29	178.29
RE DISCCART	453000.0	4616200.0	178.29	178.29
RE DISCCART	453100.0	4616200.0	178.29	178.29
RE DISCCART	453200.0	4616200.0	178.29	178.29
RE DISCCART	453300.0	4616200.0	178.29	178.29
RE DISCCART	453400.0	4616200.0	178.29	178.29
RE DISCCART	453500.0	4616200.0	179.7	179.7
RE DISCCART	453600.0	4616200.0	180.18	180.18
RE DISCCART	453700.0	4616200.0	180.09	180.09

Phosphorus_2015_OTHER.DTA

RE DISCCART 453800.0 4616200.0 178.5 178.5
RE DISCCART 453900.0 4616200.0 177.6 177.6
RE DISCCART 454000.0 4616200.0 176.12 177.72
RE DISCCART 454100.0 4616200.0 178.19 178.19
RE DISCCART 454200.0 4616200.0 178.19 178.19
RE DISCCART 454300.0 4616200.0 178.2 178.2
RE DISCCART 454400.0 4616200.0 178.3 178.3
RE DISCCART 454500.0 4616200.0 178.19 178.19
RE DISCCART 454600.0 4616200.0 178.19 178.19
RE DISCCART 454700.0 4616200.0 178.19 178.19
RE DISCCART 454800.0 4616200.0 178.19 178.19
RE DISCCART 454900.0 4616200.0 178.19 178.19
RE DISCCART 455000.0 4616200.0 178.19 178.19
RE DISCCART 455100.0 4616200.0 178.19 178.19
RE DISCCART 455200.0 4616200.0 178.19 178.19
RE DISCCART 455300.0 4616200.0 178.19 178.19
RE DISCCART 455400.0 4616200.0 178.33 178.33
RE DISCCART 455500.0 4616200.0 178.31 178.31
RE DISCCART 455600.0 4616200.0 178.19 178.19
RE DISCCART 455700.0 4616200.0 178.19 178.19
RE DISCCART 455800.0 4616200.0 178.19 178.19
RE DISCCART 455900.0 4616200.0 178.19 178.19
RE DISCCART 456000.0 4616200.0 178.19 178.19
RE DISCCART 456100.0 4616200.0 178.11 178.11
RE DISCCART 456200.0 4616200.0 178.29 178.29
RE DISCCART 456300.0 4616200.0 178.48 178.48
RE DISCCART 456400.0 4616200.0 178.18 178.18
RE DISCCART 456500.0 4616200.0 178.91 178.91
RE DISCCART 456600.0 4616200.0 180.62 180.62
RE DISCCART 452000.0 4616300.0 179.43 179.43
RE DISCCART 452100.0 4616300.0 178.91 178.91
RE DISCCART 452200.0 4616300.0 178.5 178.5
RE DISCCART 452300.0 4616300.0 178.29 178.29
RE DISCCART 452400.0 4616300.0 178.48 178.48
RE DISCCART 452500.0 4616300.0 178.59 178.59
RE DISCCART 452600.0 4616300.0 178.69 178.69
RE DISCCART 452700.0 4616300.0 178.54 178.54
RE DISCCART 452800.0 4616300.0 178.49 178.49
RE DISCCART 452900.0 4616300.0 178.46 178.46
RE DISCCART 453000.0 4616300.0 178.29 178.29
RE DISCCART 453100.0 4616300.0 178.29 178.29
RE DISCCART 453200.0 4616300.0 178.29 178.29
RE DISCCART 453300.0 4616300.0 178.31 178.31
RE DISCCART 453400.0 4616300.0 178.32 178.32
RE DISCCART 453500.0 4616300.0 179.75 179.75
RE DISCCART 453600.0 4616300.0 178.46 178.46
RE DISCCART 453700.0 4616300.0 178.42 178.42
RE DISCCART 453800.0 4616300.0 178.36 178.36

Phosphorus_2015_OTHER.DTA

RE DISCCART	453900.0	4616300.0	178.37	178.37
RE DISCCART	454000.0	4616300.0	176.29	178.49
RE DISCCART	454100.0	4616300.0	178.19	178.19
RE DISCCART	454200.0	4616300.0	178.19	178.19
RE DISCCART	454300.0	4616300.0	178.19	178.19
RE DISCCART	454400.0	4616300.0	178.41	178.41
RE DISCCART	454500.0	4616300.0	178.22	178.22
RE DISCCART	454600.0	4616300.0	178.19	178.19
RE DISCCART	454700.0	4616300.0	178.19	178.19
RE DISCCART	454800.0	4616300.0	178.19	178.19
RE DISCCART	454900.0	4616300.0	178.19	178.19
RE DISCCART	455000.0	4616300.0	178.19	178.19
RE DISCCART	455100.0	4616300.0	178.19	178.19
RE DISCCART	455200.0	4616300.0	178.19	178.19
RE DISCCART	455300.0	4616300.0	178.19	178.19
RE DISCCART	455400.0	4616300.0	178.39	178.39
RE DISCCART	455500.0	4616300.0	178.45	178.45
RE DISCCART	455600.0	4616300.0	178.28	178.28
RE DISCCART	455700.0	4616300.0	178.19	178.19
RE DISCCART	455800.0	4616300.0	178.19	178.19
RE DISCCART	455900.0	4616300.0	178.19	178.19
RE DISCCART	456000.0	4616300.0	178.19	178.19
RE DISCCART	456100.0	4616300.0	178.27	178.27
RE DISCCART	456200.0	4616300.0	178.26	178.26
RE DISCCART	456300.0	4616300.0	178.36	178.36
RE DISCCART	456400.0	4616300.0	178.16	178.16
RE DISCCART	456500.0	4616300.0	179.46	179.46
RE DISCCART	456600.0	4616300.0	178.6	183.08
RE DISCCART	452000.0	4616400.0	179.2	179.2
RE DISCCART	452100.0	4616400.0	178.87	178.87
RE DISCCART	452200.0	4616400.0	178.45	178.45
RE DISCCART	452300.0	4616400.0	178.29	178.29
RE DISCCART	452400.0	4616400.0	178.59	178.59
RE DISCCART	452500.0	4616400.0	178.8	178.8
RE DISCCART	452600.0	4616400.0	178.84	178.84
RE DISCCART	452700.0	4616400.0	178.86	178.86
RE DISCCART	452800.0	4616400.0	178.91	178.91
RE DISCCART	452900.0	4616400.0	178.64	178.64
RE DISCCART	453000.0	4616400.0	178.29	178.29
RE DISCCART	453100.0	4616400.0	178.29	178.29
RE DISCCART	453200.0	4616400.0	178.5	178.5
RE DISCCART	453300.0	4616400.0	178.83	178.83
RE DISCCART	453400.0	4616400.0	179.19	179.19
RE DISCCART	453500.0	4616400.0	179.76	179.76
RE DISCCART	453600.0	4616400.0	179.88	179.88
RE DISCCART	453700.0	4616400.0	179.48	179.48
RE DISCCART	453800.0	4616400.0	179.42	179.42
RE DISCCART	453900.0	4616400.0	179.17	179.17

Phosphorus_2015_OTHER.DTA

RE DISCCART	454000.0	4616400.0	175.19	175.19
RE DISCCART	454100.0	4616400.0	178.19	178.19
RE DISCCART	454200.0	4616400.0	178.19	178.19
RE DISCCART	454300.0	4616400.0	178.19	178.19
RE DISCCART	454400.0	4616400.0	178.46	178.46
RE DISCCART	454500.0	4616400.0	178.37	178.37
RE DISCCART	454600.0	4616400.0	178.19	178.19
RE DISCCART	454700.0	4616400.0	178.19	178.19
RE DISCCART	454800.0	4616400.0	178.19	178.19
RE DISCCART	454900.0	4616400.0	178.19	178.19
RE DISCCART	455000.0	4616400.0	178.19	178.19
RE DISCCART	455100.0	4616400.0	178.19	178.19
RE DISCCART	455200.0	4616400.0	178.19	178.19
RE DISCCART	455300.0	4616400.0	178.19	178.19
RE DISCCART	455400.0	4616400.0	178.39	178.39
RE DISCCART	455500.0	4616400.0	178.61	178.61
RE DISCCART	455600.0	4616400.0	178.55	178.55
RE DISCCART	455700.0	4616400.0	178.28	178.28
RE DISCCART	455800.0	4616400.0	178.19	178.19
RE DISCCART	455900.0	4616400.0	178.19	178.19
RE DISCCART	456000.0	4616400.0	178.19	178.19
RE DISCCART	456100.0	4616400.0	178.5	178.5
RE DISCCART	456200.0	4616400.0	178.33	178.33
RE DISCCART	456300.0	4616400.0	178.41	178.41
RE DISCCART	456400.0	4616400.0	178.57	178.57
RE DISCCART	456500.0	4616400.0	179.95	179.95
RE DISCCART	456600.0	4616400.0	179.89	183.68
RE DISCCART	452000.0	4616500.0	178.59	178.59
RE DISCCART	452100.0	4616500.0	178.78	178.78
RE DISCCART	452200.0	4616500.0	178.36	178.36
RE DISCCART	452300.0	4616500.0	178.35	178.35
RE DISCCART	452400.0	4616500.0	178.64	178.64
RE DISCCART	452500.0	4616500.0	179.01	179.01
RE DISCCART	452600.0	4616500.0	179.02	179.02
RE DISCCART	452700.0	4616500.0	179.19	179.19
RE DISCCART	452800.0	4616500.0	179.33	179.33
RE DISCCART	452900.0	4616500.0	179.1	179.1
RE DISCCART	453000.0	4616500.0	178.47	178.47
RE DISCCART	453100.0	4616500.0	178.31	178.31
RE DISCCART	453200.0	4616500.0	178.49	178.49
RE DISCCART	453300.0	4616500.0	178.89	178.89
RE DISCCART	453400.0	4616500.0	179.31	179.31
RE DISCCART	453500.0	4616500.0	179.76	179.76
RE DISCCART	453600.0	4616500.0	180.08	180.08
RE DISCCART	453700.0	4616500.0	180.15	180.15
RE DISCCART	453800.0	4616500.0	180.13	180.13
RE DISCCART	453900.0	4616500.0	180.25	180.25
RE DISCCART	454000.0	4616500.0	178.75	179.84

Phosphorus_2015_OTHER.DTA

RE DISCCART 454100.0 4616500.0 176. 176.
RE DISCCART 454200.0 4616500.0 178.19 178.19
RE DISCCART 454300.0 4616500.0 178.19 178.19
RE DISCCART 454400.0 4616500.0 178.45 178.45
RE DISCCART 454500.0 4616500.0 178.5 178.5
RE DISCCART 454600.0 4616500.0 178.19 178.19
RE DISCCART 454700.0 4616500.0 178.19 178.19
RE DISCCART 454800.0 4616500.0 178.19 178.19
RE DISCCART 454900.0 4616500.0 178.19 178.19
RE DISCCART 455000.0 4616500.0 178.19 178.19
RE DISCCART 455100.0 4616500.0 178.19 178.19
RE DISCCART 455200.0 4616500.0 178.36 178.36
RE DISCCART 455300.0 4616500.0 178.29 178.29
RE DISCCART 455400.0 4616500.0 178.52 178.52
RE DISCCART 455500.0 4616500.0 178.78 178.78
RE DISCCART 455600.0 4616500.0 178.84 178.84
RE DISCCART 455700.0 4616500.0 178.52 178.52
RE DISCCART 455800.0 4616500.0 178.22 178.22
RE DISCCART 455900.0 4616500.0 178.23 178.23
RE DISCCART 456000.0 4616500.0 178.19 178.19
RE DISCCART 456100.0 4616500.0 178.33 178.33
RE DISCCART 456200.0 4616500.0 178.21 178.21
RE DISCCART 456300.0 4616500.0 178.06 178.06
RE DISCCART 456400.0 4616500.0 178.04 178.04
RE DISCCART 456500.0 4616500.0 180.46 183.14
RE DISCCART 456600.0 4616500.0 179.28 183.56
RE DISCCART 452000.0 4616600.0 178.2 178.2
RE DISCCART 452100.0 4616600.0 178.69 178.69
RE DISCCART 452200.0 4616600.0 178.31 178.31
RE DISCCART 452300.0 4616600.0 178.39 178.39
RE DISCCART 452400.0 4616600.0 178.7 178.7
RE DISCCART 452500.0 4616600.0 178.95 178.95
RE DISCCART 452600.0 4616600.0 179.15 179.15
RE DISCCART 452700.0 4616600.0 179.37 179.37
RE DISCCART 452800.0 4616600.0 179.58 179.58
RE DISCCART 452900.0 4616600.0 179.64 179.64
RE DISCCART 453000.0 4616600.0 178.79 178.79
RE DISCCART 453100.0 4616600.0 178.29 178.29
RE DISCCART 453200.0 4616600.0 178.46 178.46
RE DISCCART 453300.0 4616600.0 178.79 178.79
RE DISCCART 453400.0 4616600.0 179.29 179.29
RE DISCCART 453500.0 4616600.0 179.75 179.75
RE DISCCART 453600.0 4616600.0 180.04 180.04
RE DISCCART 453700.0 4616600.0 180.32 180.32
RE DISCCART 453800.0 4616600.0 180.02 180.02
RE DISCCART 453900.0 4616600.0 178.48 178.48
RE DISCCART 454000.0 4616600.0 178.27 178.27
RE DISCCART 454100.0 4616600.0 175.49 175.49

Phosphorus_2015_OTHER.DTA

RE DISCCART 454200.0 4616600.0 175.19 175.19
RE DISCCART 454300.0 4616600.0 178.06 178.06
RE DISCCART 454400.0 4616600.0 178.2 178.2
RE DISCCART 454500.0 4616600.0 178.55 178.55
RE DISCCART 454600.0 4616600.0 178.37 178.37
RE DISCCART 454700.0 4616600.0 178.19 178.19
RE DISCCART 454800.0 4616600.0 178.19 178.19
RE DISCCART 454900.0 4616600.0 178.21 178.21
RE DISCCART 455000.0 4616600.0 178.19 178.19
RE DISCCART 455100.0 4616600.0 178.19 178.19
RE DISCCART 455200.0 4616600.0 178.29 178.29
RE DISCCART 455300.0 4616600.0 178.61 178.61
RE DISCCART 455400.0 4616600.0 178.65 178.65
RE DISCCART 455500.0 4616600.0 178.82 178.82
RE DISCCART 455600.0 4616600.0 179. 179.
RE DISCCART 455700.0 4616600.0 178.7 178.7
RE DISCCART 455800.0 4616600.0 178.49 178.49
RE DISCCART 455900.0 4616600.0 178.44 178.44
RE DISCCART 456000.0 4616600.0 178.19 178.19
RE DISCCART 456100.0 4616600.0 178.32 178.32
RE DISCCART 456200.0 4616600.0 178.43 178.43
RE DISCCART 456300.0 4616600.0 178.27 178.27
RE DISCCART 456400.0 4616600.0 178.04 178.04
RE DISCCART 456500.0 4616600.0 180.61 184.67
RE DISCCART 456600.0 4616600.0 178.25 184.89
RE DISCCART 452000.0 4616700.0 178.97 178.97
RE DISCCART 452100.0 4616700.0 178.7 178.7
RE DISCCART 452200.0 4616700.0 178.29 178.29
RE DISCCART 452300.0 4616700.0 178.47 178.47
RE DISCCART 452400.0 4616700.0 178.81 178.81
RE DISCCART 452500.0 4616700.0 179.04 179.04
RE DISCCART 452600.0 4616700.0 179.27 179.27
RE DISCCART 452700.0 4616700.0 179.49 179.49
RE DISCCART 452800.0 4616700.0 179.69 179.69
RE DISCCART 452900.0 4616700.0 179.43 179.43
RE DISCCART 453000.0 4616700.0 178.76 178.76
RE DISCCART 453100.0 4616700.0 178.29 178.29
RE DISCCART 453200.0 4616700.0 178.39 178.39
RE DISCCART 453300.0 4616700.0 178.62 178.62
RE DISCCART 453400.0 4616700.0 179.12 179.12
RE DISCCART 453500.0 4616700.0 179.64 179.64
RE DISCCART 453600.0 4616700.0 179.88 179.88
RE DISCCART 453700.0 4616700.0 180.3 180.3
RE DISCCART 453800.0 4616700.0 180.02 180.02
RE DISCCART 453900.0 4616700.0 178.2 178.2
RE DISCCART 454000.0 4616700.0 178.19 178.19
RE DISCCART 454100.0 4616700.0 178.26 178.26
RE DISCCART 454200.0 4616700.0 178.71 178.71

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RE DISCCART	454300.0	4616700.0	175.55	175.55
RE DISCCART	454400.0	4616700.0	175.19	175.19
RE DISCCART	454500.0	4616700.0	178.32	178.32
RE DISCCART	454600.0	4616700.0	178.52	178.52
RE DISCCART	454700.0	4616700.0	178.31	178.31
RE DISCCART	454800.0	4616700.0	178.19	178.19
RE DISCCART	454900.0	4616700.0	178.37	178.37
RE DISCCART	455000.0	4616700.0	178.21	178.21
RE DISCCART	455100.0	4616700.0	178.19	178.19
RE DISCCART	455200.0	4616700.0	178.2	178.2
RE DISCCART	455300.0	4616700.0	178.65	178.65
RE DISCCART	455400.0	4616700.0	178.8	178.8
RE DISCCART	455500.0	4616700.0	179.04	179.04
RE DISCCART	455600.0	4616700.0	179.15	179.15
RE DISCCART	455700.0	4616700.0	178.93	178.93
RE DISCCART	455800.0	4616700.0	178.72	178.72
RE DISCCART	455900.0	4616700.0	178.29	178.29
RE DISCCART	456000.0	4616700.0	178.19	178.19
RE DISCCART	456100.0	4616700.0	178.18	178.18
RE DISCCART	456200.0	4616700.0	178.38	178.38
RE DISCCART	456300.0	4616700.0	178.24	178.24
RE DISCCART	456400.0	4616700.0	177.87	177.87
RE DISCCART	456500.0	4616700.0	178.37	178.37
RE DISCCART	456600.0	4616700.0	178.65	178.65
RE DISCCART	452000.0	4616800.0	179.14	179.14
RE DISCCART	452100.0	4616800.0	178.59	178.59
RE DISCCART	452200.0	4616800.0	178.29	178.29
RE DISCCART	452300.0	4616800.0	178.56	178.56
RE DISCCART	452400.0	4616800.0	178.89	178.89
RE DISCCART	452500.0	4616800.0	179.16	179.16
RE DISCCART	452600.0	4616800.0	179.41	179.41
RE DISCCART	452700.0	4616800.0	179.68	179.68
RE DISCCART	452800.0	4616800.0	179.63	179.63
RE DISCCART	452900.0	4616800.0	179.31	179.31
RE DISCCART	453000.0	4616800.0	178.79	178.79
RE DISCCART	453100.0	4616800.0	178.58	178.58
RE DISCCART	453200.0	4616800.0	178.29	178.29
RE DISCCART	453300.0	4616800.0	178.45	178.45
RE DISCCART	453400.0	4616800.0	178.89	178.89
RE DISCCART	453500.0	4616800.0	179.42	179.42
RE DISCCART	453600.0	4616800.0	179.82	179.82
RE DISCCART	453700.0	4616800.0	180.06	180.06
RE DISCCART	453800.0	4616800.0	178.96	178.96
RE DISCCART	453900.0	4616800.0	178.28	178.28
RE DISCCART	454000.0	4616800.0	178.17	178.17
RE DISCCART	454100.0	4616800.0	178.18	178.18
RE DISCCART	454200.0	4616800.0	178.22	178.22
RE DISCCART	454300.0	4616800.0	178.18	178.18

Phosphorus_2015_OTHER.DTA

RE DISCCART	454400.0	4616800.0	179.12	179.12
RE DISCCART	454500.0	4616800.0	175.19	178.46
RE DISCCART	454600.0	4616800.0	179.02	179.02
RE DISCCART	454700.0	4616800.0	179.08	179.08
RE DISCCART	454800.0	4616800.0	178.19	178.19
RE DISCCART	454900.0	4616800.0	178.35	178.35
RE DISCCART	455000.0	4616800.0	178.41	178.41
RE DISCCART	455100.0	4616800.0	178.19	178.19
RE DISCCART	455200.0	4616800.0	178.2	178.2
RE DISCCART	455300.0	4616800.0	178.54	178.54
RE DISCCART	455400.0	4616800.0	178.88	178.88
RE DISCCART	455500.0	4616800.0	179.11	179.11
RE DISCCART	455600.0	4616800.0	179.28	179.28
RE DISCCART	455700.0	4616800.0	179.11	179.11
RE DISCCART	455800.0	4616800.0	178.95	178.95
RE DISCCART	455900.0	4616800.0	178.45	178.45
RE DISCCART	456000.0	4616800.0	178.19	178.19
RE DISCCART	456100.0	4616800.0	178.26	178.26
RE DISCCART	456200.0	4616800.0	178.6	178.6
RE DISCCART	456300.0	4616800.0	178.44	178.44
RE DISCCART	456400.0	4616800.0	178.12	178.12
RE DISCCART	456500.0	4616800.0	178.7	178.7
RE DISCCART	456600.0	4616800.0	178.86	178.86
RE DISCCART	452000.0	4616900.0	178.85	178.85
RE DISCCART	452100.0	4616900.0	178.4	178.4
RE DISCCART	452200.0	4616900.0	178.32	178.32
RE DISCCART	452300.0	4616900.0	178.7	178.7
RE DISCCART	452400.0	4616900.0	179.	179.
RE DISCCART	452500.0	4616900.0	179.31	179.31
RE DISCCART	452600.0	4616900.0	179.58	179.58
RE DISCCART	452700.0	4616900.0	179.69	179.69
RE DISCCART	452800.0	4616900.0	179.48	179.48
RE DISCCART	452900.0	4616900.0	179.18	179.18
RE DISCCART	453000.0	4616900.0	179.08	179.08
RE DISCCART	453100.0	4616900.0	178.67	178.67
RE DISCCART	453200.0	4616900.0	178.34	178.34
RE DISCCART	453300.0	4616900.0	178.31	178.31
RE DISCCART	453400.0	4616900.0	178.67	178.67
RE DISCCART	453500.0	4616900.0	178.78	178.78
RE DISCCART	453600.0	4616900.0	179.27	179.27
RE DISCCART	453700.0	4616900.0	178.24	178.24
RE DISCCART	453800.0	4616900.0	178.19	178.19
RE DISCCART	453900.0	4616900.0	178.19	178.19
RE DISCCART	454000.0	4616900.0	178.2	178.2
RE DISCCART	454100.0	4616900.0	178.19	178.19
RE DISCCART	454200.0	4616900.0	178.19	178.19
RE DISCCART	454300.0	4616900.0	178.2	178.2
RE DISCCART	454400.0	4616900.0	178.35	178.35

Phosphorus_2015_OTHER.DTA

RE DISCCART	454500.0	4616900.0	180.77	182.17
RE DISCCART	454600.0	4616900.0	176.26	182.22
RE DISCCART	454700.0	4616900.0	179.53	179.53
RE DISCCART	454800.0	4616900.0	178.19	178.19
RE DISCCART	454900.0	4616900.0	178.19	178.19
RE DISCCART	455000.0	4616900.0	178.33	178.33
RE DISCCART	455100.0	4616900.0	178.22	178.22
RE DISCCART	455200.0	4616900.0	178.2	178.2
RE DISCCART	455300.0	4616900.0	178.61	178.61
RE DISCCART	455400.0	4616900.0	178.77	178.77
RE DISCCART	455500.0	4616900.0	179.2	179.2
RE DISCCART	455600.0	4616900.0	179.39	179.39
RE DISCCART	455700.0	4616900.0	179.21	179.21
RE DISCCART	455800.0	4616900.0	179.06	179.06
RE DISCCART	455900.0	4616900.0	178.52	178.52
RE DISCCART	456000.0	4616900.0	178.32	178.32
RE DISCCART	456100.0	4616900.0	178.86	178.86
RE DISCCART	456200.0	4616900.0	179.3	179.3
RE DISCCART	456300.0	4616900.0	179.34	179.34
RE DISCCART	456400.0	4616900.0	179.1	179.1
RE DISCCART	456500.0	4616900.0	179.26	179.26
RE DISCCART	456600.0	4616900.0	178.74	178.74
RE DISCCART	452000.0	4617000.0	178.3	178.3
RE DISCCART	452100.0	4617000.0	178.29	178.29
RE DISCCART	452200.0	4617000.0	178.56	178.56
RE DISCCART	452300.0	4617000.0	178.88	178.88
RE DISCCART	452400.0	4617000.0	179.19	179.19
RE DISCCART	452500.0	4617000.0	179.49	179.49
RE DISCCART	452600.0	4617000.0	179.69	179.69
RE DISCCART	452700.0	4617000.0	179.6	179.6
RE DISCCART	452800.0	4617000.0	179.39	179.39
RE DISCCART	452900.0	4617000.0	179.34	179.34
RE DISCCART	453000.0	4617000.0	179.02	179.02
RE DISCCART	453100.0	4617000.0	178.61	178.61
RE DISCCART	453200.0	4617000.0	178.37	178.37
RE DISCCART	453300.0	4617000.0	178.29	178.29
RE DISCCART	453400.0	4617000.0	178.56	178.56
RE DISCCART	453500.0	4617000.0	178.2	178.2
RE DISCCART	453600.0	4617000.0	178.91	178.91
RE DISCCART	453700.0	4617000.0	179.07	179.07
RE DISCCART	453800.0	4617000.0	178.51	178.51
RE DISCCART	453900.0	4617000.0	178.21	178.21
RE DISCCART	454000.0	4617000.0	178.2	178.2
RE DISCCART	454100.0	4617000.0	178.21	178.21
RE DISCCART	454200.0	4617000.0	178.22	178.22
RE DISCCART	454300.0	4617000.0	178.72	178.72
RE DISCCART	454400.0	4617000.0	179.7	179.7
RE DISCCART	454500.0	4617000.0	178.56	178.56

Phosphorus_2015_OTHER.DTA

RE DISCCART	454600.0	4617000.0	175.19	175.19
RE DISCCART	454700.0	4617000.0	178.58	178.58
RE DISCCART	454800.0	4617000.0	178.19	178.19
RE DISCCART	454900.0	4617000.0	178.19	178.19
RE DISCCART	455000.0	4617000.0	178.22	178.22
RE DISCCART	455100.0	4617000.0	178.41	178.41
RE DISCCART	455200.0	4617000.0	178.69	178.69
RE DISCCART	455300.0	4617000.0	178.7	178.7
RE DISCCART	455400.0	4617000.0	178.8	178.8
RE DISCCART	455500.0	4617000.0	179.11	179.11
RE DISCCART	455600.0	4617000.0	179.41	179.41
RE DISCCART	455700.0	4617000.0	179.34	179.34
RE DISCCART	455800.0	4617000.0	179.09	179.09
RE DISCCART	455900.0	4617000.0	178.72	178.72
RE DISCCART	456000.0	4617000.0	178.32	178.32
RE DISCCART	456100.0	4617000.0	178.64	178.64
RE DISCCART	456200.0	4617000.0	178.74	178.74
RE DISCCART	456300.0	4617000.0	179.47	186.69
RE DISCCART	456400.0	4617000.0	179.52	179.52
RE DISCCART	456500.0	4617000.0	179.55	179.55
RE DISCCART	456600.0	4617000.0	179.13	179.13
RE DISCCART	452000.0	4617100.0	178.87	178.87
RE DISCCART	452100.0	4617100.0	178.6	178.6
RE DISCCART	452200.0	4617100.0	178.95	178.95
RE DISCCART	452300.0	4617100.0	179.13	179.13
RE DISCCART	452400.0	4617100.0	179.38	179.38
RE DISCCART	452500.0	4617100.0	179.65	179.65
RE DISCCART	452600.0	4617100.0	179.68	179.68
RE DISCCART	452700.0	4617100.0	179.49	179.49
RE DISCCART	452800.0	4617100.0	179.39	179.39
RE DISCCART	452900.0	4617100.0	179.22	179.22
RE DISCCART	453000.0	4617100.0	178.81	178.81
RE DISCCART	453100.0	4617100.0	178.58	178.58
RE DISCCART	453200.0	4617100.0	178.54	178.54
RE DISCCART	453300.0	4617100.0	178.29	178.29
RE DISCCART	453400.0	4617100.0	178.45	178.45
RE DISCCART	453500.0	4617100.0	178.21	178.21
RE DISCCART	453600.0	4617100.0	178.49	178.49
RE DISCCART	453700.0	4617100.0	178.87	178.87
RE DISCCART	453800.0	4617100.0	178.7	178.7
RE DISCCART	453900.0	4617100.0	178.49	178.49
RE DISCCART	454000.0	4617100.0	178.19	178.19
RE DISCCART	454100.0	4617100.0	178.16	178.16
RE DISCCART	454200.0	4617100.0	178.42	178.42
RE DISCCART	454300.0	4617100.0	178.95	178.95
RE DISCCART	454400.0	4617100.0	179.13	179.13
RE DISCCART	454500.0	4617100.0	178.28	178.28
RE DISCCART	454600.0	4617100.0	175.19	175.19

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RE DISCCART 454700.0 4617100.0 178.19 178.19
RE DISCCART 454800.0 4617100.0 178.2 178.2
RE DISCCART 454900.0 4617100.0 178.19 178.19
RE DISCCART 455000.0 4617100.0 178.19 178.19
RE DISCCART 455100.0 4617100.0 178.37 178.37
RE DISCCART 455200.0 4617100.0 178.76 178.76
RE DISCCART 455300.0 4617100.0 179.04 179.04
RE DISCCART 455400.0 4617100.0 179.16 179.16
RE DISCCART 455500.0 4617100.0 179.29 179.29
RE DISCCART 455600.0 4617100.0 179.39 179.39
RE DISCCART 455700.0 4617100.0 179.4 179.4
RE DISCCART 455800.0 4617100.0 179.11 179.11
RE DISCCART 455900.0 4617100.0 178.95 178.95
RE DISCCART 456000.0 4617100.0 178.38 178.38
RE DISCCART 456100.0 4617100.0 178.58 178.58
RE DISCCART 456200.0 4617100.0 178.66 187.12
RE DISCCART 456300.0 4617100.0 181.14 187.12
RE DISCCART 456400.0 4617100.0 179.17 179.17
RE DISCCART 456500.0 4617100.0 179.64 179.64
RE DISCCART 456600.0 4617100.0 180.14 180.14
RE DISCCART 452000.0 4617200.0 179.33 179.33
RE DISCCART 452100.0 4617200.0 179.12 179.12
RE DISCCART 452200.0 4617200.0 179.3 179.3
RE DISCCART 452300.0 4617200.0 179.4 179.4
RE DISCCART 452400.0 4617200.0 179.55 179.55
RE DISCCART 452500.0 4617200.0 179.69 179.69
RE DISCCART 452600.0 4617200.0 179.59 179.59
RE DISCCART 452700.0 4617200.0 179.59 179.59
RE DISCCART 452800.0 4617200.0 179.36 179.36
RE DISCCART 452900.0 4617200.0 179.11 179.11
RE DISCCART 453000.0 4617200.0 179. 179.
RE DISCCART 453100.0 4617200.0 178.71 178.71
RE DISCCART 453200.0 4617200.0 178.37 178.37
RE DISCCART 453300.0 4617200.0 178.35 178.35
RE DISCCART 453400.0 4617200.0 178.77 178.77
RE DISCCART 453500.0 4617200.0 178.19 178.19
RE DISCCART 453600.0 4617200.0 178.35 178.35
RE DISCCART 453700.0 4617200.0 178.73 178.73
RE DISCCART 453800.0 4617200.0 178.73 178.73
RE DISCCART 453900.0 4617200.0 178.4 178.4
RE DISCCART 454000.0 4617200.0 176.92 176.92
RE DISCCART 454100.0 4617200.0 176.84 176.84
RE DISCCART 454200.0 4617200.0 176.92 176.92
RE DISCCART 454300.0 4617200.0 177.04 177.04
RE DISCCART 454400.0 4617200.0 177.07 177.07
RE DISCCART 454500.0 4617200.0 176.83 176.83
RE DISCCART 454600.0 4617200.0 175.19 175.19
RE DISCCART 454700.0 4617200.0 178.19 178.19

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RE DISCCART	454800.0	4617200.0	178.19	178.19
RE DISCCART	454900.0	4617200.0	178.19	178.19
RE DISCCART	455000.0	4617200.0	178.19	178.19
RE DISCCART	455100.0	4617200.0	178.21	178.21
RE DISCCART	455200.0	4617200.0	178.78	178.78
RE DISCCART	455300.0	4617200.0	179.17	179.17
RE DISCCART	455400.0	4617200.0	179.32	179.32
RE DISCCART	455500.0	4617200.0	179.55	179.55
RE DISCCART	455600.0	4617200.0	179.58	179.58
RE DISCCART	455700.0	4617200.0	179.5	179.5
RE DISCCART	455800.0	4617200.0	179.36	179.36
RE DISCCART	455900.0	4617200.0	179.13	179.13
RE DISCCART	456000.0	4617200.0	178.45	178.45
RE DISCCART	456100.0	4617200.0	178.67	186.29
RE DISCCART	456200.0	4617200.0	184.82	186.47
RE DISCCART	456300.0	4617200.0	180.47	180.47
RE DISCCART	456400.0	4617200.0	179.5	179.5
RE DISCCART	456500.0	4617200.0	180.65	180.65
RE DISCCART	456600.0	4617200.0	179.3	179.3
RE DISCCART	452000.0	4617300.0	180.38	180.38
RE DISCCART	452100.0	4617300.0	180.24	180.24
RE DISCCART	452200.0	4617300.0	179.66	179.66
RE DISCCART	452300.0	4617300.0	179.57	179.57
RE DISCCART	452400.0	4617300.0	179.69	179.69
RE DISCCART	452500.0	4617300.0	179.91	179.91
RE DISCCART	452600.0	4617300.0	179.99	179.99
RE DISCCART	452700.0	4617300.0	179.62	179.62
RE DISCCART	452800.0	4617300.0	179.49	179.49
RE DISCCART	452900.0	4617300.0	179.19	179.19
RE DISCCART	453000.0	4617300.0	178.8	178.8
RE DISCCART	453100.0	4617300.0	178.51	178.51
RE DISCCART	453200.0	4617300.0	178.34	178.34
RE DISCCART	453300.0	4617300.0	178.37	178.37
RE DISCCART	453400.0	4617300.0	179.31	179.31
RE DISCCART	453500.0	4617300.0	178.81	178.81
RE DISCCART	453600.0	4617300.0	178.62	178.62
RE DISCCART	453700.0	4617300.0	178.59	178.59
RE DISCCART	453800.0	4617300.0	178.29	178.29
RE DISCCART	453900.0	4617300.0	178.19	178.19
RE DISCCART	454000.0	4617300.0	178.28	178.28
RE DISCCART	454100.0	4617300.0	178.25	178.25
RE DISCCART	454200.0	4617300.0	178.19	178.19
RE DISCCART	454300.0	4617300.0	178.19	178.19
RE DISCCART	454400.0	4617300.0	178.19	178.19
RE DISCCART	454500.0	4617300.0	178.19	178.19
RE DISCCART	454600.0	4617300.0	175.19	175.19
RE DISCCART	454700.0	4617300.0	178.19	178.19
RE DISCCART	454800.0	4617300.0	178.19	178.19

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RE DISCCART	454900.0	4617300.0	178.19	178.19
RE DISCCART	455000.0	4617300.0	178.19	178.19
RE DISCCART	455100.0	4617300.0	178.19	178.19
RE DISCCART	455200.0	4617300.0	178.44	178.44
RE DISCCART	455300.0	4617300.0	178.92	178.92
RE DISCCART	455400.0	4617300.0	179.23	179.23
RE DISCCART	455500.0	4617300.0	179.49	179.49
RE DISCCART	455600.0	4617300.0	179.73	179.73
RE DISCCART	455700.0	4617300.0	179.7	179.7
RE DISCCART	455800.0	4617300.0	179.6	179.6
RE DISCCART	455900.0	4617300.0	179.35	179.35
RE DISCCART	456000.0	4617300.0	178.78	178.78
RE DISCCART	456100.0	4617300.0	182.07	182.07
RE DISCCART	456200.0	4617300.0	179.87	179.87
RE DISCCART	456300.0	4617300.0	179.81	179.81
RE DISCCART	456400.0	4617300.0	180.77	180.77
RE DISCCART	456500.0	4617300.0	179.43	179.43
RE DISCCART	456600.0	4617300.0	178.38	178.38
RE DISCCART	449000.0	4609000.0	183.39	183.39
RE DISCCART	449500.0	4609000.0	184.04	184.04
RE DISCCART	450000.0	4609000.0	184.29	184.29
RE DISCCART	450500.0	4609000.0	182.94	182.94
RE DISCCART	451000.0	4609000.0	180.31	180.31
RE DISCCART	451500.0	4609000.0	179.59	179.59
RE DISCCART	452000.0	4609000.0	179.19	179.19
RE DISCCART	452500.0	4609000.0	178.97	178.97
RE DISCCART	453000.0	4609000.0	178.38	178.38
RE DISCCART	453500.0	4609000.0	178.19	178.19
RE DISCCART	454000.0	4609000.0	178.19	178.19
RE DISCCART	454500.0	4609000.0	178.27	178.27
RE DISCCART	455000.0	4609000.0	178.85	178.85
RE DISCCART	455500.0	4609000.0	178.57	178.57
RE DISCCART	456000.0	4609000.0	178.11	178.11
RE DISCCART	456500.0	4609000.0	178.93	178.93
RE DISCCART	457000.0	4609000.0	179.27	179.27
RE DISCCART	457500.0	4609000.0	178.7	178.7
RE DISCCART	458000.0	4609000.0	178.44	178.44
RE DISCCART	458500.0	4609000.0	178.47	178.47
RE DISCCART	459000.0	4609000.0	178.65	178.65
RE DISCCART	459500.0	4609000.0	178.02	178.02
RE DISCCART	460000.0	4609000.0	178.48	178.48
RE DISCCART	449000.0	4609500.0	182.79	182.79
RE DISCCART	449500.0	4609500.0	183.99	183.99
RE DISCCART	450000.0	4609500.0	182.36	182.36
RE DISCCART	450500.0	4609500.0	179.44	179.44
RE DISCCART	451000.0	4609500.0	179.07	179.07
RE DISCCART	451500.0	4609500.0	178.52	178.52
RE DISCCART	452000.0	4609500.0	179.62	179.62

Phosphorus_2015_OTHER.DTA

RE DISCCART	452500.0	4609500.0	178.25	178.25
RE DISCCART	453000.0	4609500.0	178.19	178.19
RE DISCCART	453500.0	4609500.0	180.93	180.93
RE DISCCART	454000.0	4609500.0	178.19	178.19
RE DISCCART	454500.0	4609500.0	178.4	178.4
RE DISCCART	455000.0	4609500.0	178.19	178.19
RE DISCCART	455500.0	4609500.0	178.22	178.22
RE DISCCART	456000.0	4609500.0	178.42	178.42
RE DISCCART	456500.0	4609500.0	178.99	178.99
RE DISCCART	457000.0	4609500.0	178.92	178.92
RE DISCCART	457500.0	4609500.0	178.27	178.27
RE DISCCART	458000.0	4609500.0	179.36	179.36
RE DISCCART	458500.0	4609500.0	179.41	179.41
RE DISCCART	459000.0	4609500.0	179.02	179.02
RE DISCCART	459500.0	4609500.0	178.22	178.22
RE DISCCART	460000.0	4609500.0	178.54	178.54
RE DISCCART	449000.0	4610000.0	183.07	183.07
RE DISCCART	449500.0	4610000.0	181.97	181.97
RE DISCCART	450000.0	4610000.0	180.16	180.16
RE DISCCART	450500.0	4610000.0	179.64	179.64
RE DISCCART	451000.0	4610000.0	179.	179.
RE DISCCART	451500.0	4610000.0	179.29	179.29
RE DISCCART	452000.0	4610000.0	176.99	176.99
RE DISCCART	452500.0	4610000.0	180.55	221.91
RE DISCCART	453000.0	4610000.0	176.99	221.91
RE DISCCART	453500.0	4610000.0	178.72	178.72
RE DISCCART	454000.0	4610000.0	178.19	178.19
RE DISCCART	454500.0	4610000.0	178.19	178.19
RE DISCCART	455000.0	4610000.0	178.4	178.4
RE DISCCART	455500.0	4610000.0	178.19	178.19
RE DISCCART	456000.0	4610000.0	178.48	178.48
RE DISCCART	456500.0	4610000.0	178.53	178.53
RE DISCCART	457000.0	4610000.0	178.43	178.43
RE DISCCART	457500.0	4610000.0	177.87	177.87
RE DISCCART	458000.0	4610000.0	178.05	178.05
RE DISCCART	458500.0	4610000.0	178.35	178.35
RE DISCCART	459000.0	4610000.0	178.33	178.33
RE DISCCART	459500.0	4610000.0	179.39	179.39
RE DISCCART	460000.0	4610000.0	178.51	178.51
RE DISCCART	449000.0	4610500.0	182.7	182.7
RE DISCCART	449500.0	4610500.0	179.77	179.77
RE DISCCART	450000.0	4610500.0	178.81	183.91
RE DISCCART	450500.0	4610500.0	180.53	197.07
RE DISCCART	451000.0	4610500.0	178.61	178.61
RE DISCCART	451500.0	4610500.0	178.49	178.49
RE DISCCART	452000.0	4610500.0	180.65	180.65
RE DISCCART	452500.0	4610500.0	178.06	221.91
RE DISCCART	453000.0	4610500.0	178.46	221.91

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RE DISCCART	453500.0	4610500.0	178.48	178.48
RE DISCCART	454000.0	4610500.0	178.19	178.19
RE DISCCART	454500.0	4610500.0	178.28	178.28
RE DISCCART	455000.0	4610500.0	179.05	179.05
RE DISCCART	455500.0	4610500.0	178.19	178.19
RE DISCCART	456000.0	4610500.0	177.67	177.67
RE DISCCART	456500.0	4610500.0	178.31	178.31
RE DISCCART	457000.0	4610500.0	178.1	178.1
RE DISCCART	457500.0	4610500.0	179.27	179.27
RE DISCCART	458000.0	4610500.0	177.49	177.49
RE DISCCART	458500.0	4610500.0	178.63	178.63
RE DISCCART	459000.0	4610500.0	176.33	176.33
RE DISCCART	459500.0	4610500.0	178.92	178.92
RE DISCCART	460000.0	4610500.0	178.62	178.62
RE DISCCART	449000.0	4611000.0	180.32	180.32
RE DISCCART	449500.0	4611000.0	178.27	178.27
RE DISCCART	450000.0	4611000.0	176.99	176.99
RE DISCCART	450500.0	4611000.0	176.99	198.94
RE DISCCART	451000.0	4611000.0	182.81	185.06
RE DISCCART	451500.0	4611000.0	178.47	178.47
RE DISCCART	452000.0	4611000.0	195.12	196.88
RE DISCCART	452500.0	4611000.0	179.48	179.48
RE DISCCART	453000.0	4611000.0	176.99	176.99
RE DISCCART	453500.0	4611000.0	178.19	178.19
RE DISCCART	454000.0	4611000.0	178.19	178.19
RE DISCCART	454500.0	4611000.0	178.61	178.61
RE DISCCART	455000.0	4611000.0	178.19	178.19
RE DISCCART	455500.0	4611000.0	178.19	178.19
RE DISCCART	456000.0	4611000.0	178.7	178.7
RE DISCCART	456500.0	4611000.0	177.96	177.96
RE DISCCART	457000.0	4611000.0	178.59	178.59
RE DISCCART	457500.0	4611000.0	178.8	178.8
RE DISCCART	458000.0	4611000.0	178.78	178.78
RE DISCCART	458500.0	4611000.0	178.95	178.95
RE DISCCART	459000.0	4611000.0	178.27	178.27
RE DISCCART	459500.0	4611000.0	179.87	179.87
RE DISCCART	460000.0	4611000.0	178.26	178.26
RE DISCCART	449000.0	4611500.0	179.88	179.88
RE DISCCART	449500.0	4611500.0	179.05	179.05
RE DISCCART	450000.0	4611500.0	178.6	178.6
RE DISCCART	450500.0	4611500.0	178.39	178.39
RE DISCCART	451000.0	4611500.0	178.09	178.09
RE DISCCART	451500.0	4611500.0	180.6	225.36
RE DISCCART	452000.0	4611500.0	211.82	211.82
RE DISCCART	452500.0	4611500.0	179.	179.
RE DISCCART	453000.0	4611500.0	178.19	178.19
RE DISCCART	453500.0	4611500.0	178.19	178.19
RE DISCCART	454000.0	4611500.0	180.79	180.79

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RE DISCCART	454500.0	4611500.0	178.45	178.45
RE DISCCART	455000.0	4611500.0	178.19	178.19
RE DISCCART	455500.0	4611500.0	178.61	178.61
RE DISCCART	456000.0	4611500.0	179.87	179.87
RE DISCCART	456500.0	4611500.0	178.66	178.66
RE DISCCART	457000.0	4611500.0	178.36	178.36
RE DISCCART	457500.0	4611500.0	178.23	178.23
RE DISCCART	458000.0	4611500.0	179.4	179.4
RE DISCCART	458500.0	4611500.0	179.85	179.85
RE DISCCART	459000.0	4611500.0	179.46	179.46
RE DISCCART	459500.0	4611500.0	179.19	179.19
RE DISCCART	460000.0	4611500.0	179.52	183.95
RE DISCCART	449000.0	4612000.0	179.69	179.69
RE DISCCART	449500.0	4612000.0	179.49	179.49
RE DISCCART	450000.0	4612000.0	179.38	179.38
RE DISCCART	450500.0	4612000.0	178.34	178.34
RE DISCCART	451000.0	4612000.0	182.39	182.39
RE DISCCART	451500.0	4612000.0	182.37	225.05
RE DISCCART	452000.0	4612000.0	181.49	225.36
RE DISCCART	452500.0	4612000.0	184.12	184.12
RE DISCCART	453000.0	4612000.0	184.95	184.95
RE DISCCART	453500.0	4612000.0	178.57	178.57
RE DISCCART	454000.0	4612000.0	180.49	180.49
RE DISCCART	454500.0	4612000.0	178.19	178.19
RE DISCCART	455000.0	4612000.0	178.19	178.19
RE DISCCART	455500.0	4612000.0	178.54	178.54
RE DISCCART	456000.0	4612000.0	177.55	177.55
RE DISCCART	456500.0	4612000.0	178.45	178.45
RE DISCCART	457000.0	4612000.0	187.07	187.07
RE DISCCART	457500.0	4612000.0	178.9	178.9
RE DISCCART	458000.0	4612000.0	180.18	180.18
RE DISCCART	458500.0	4612000.0	181.27	181.27
RE DISCCART	459000.0	4612000.0	179.48	179.48
RE DISCCART	459500.0	4612000.0	179.18	179.18
RE DISCCART	460000.0	4612000.0	179.39	179.39
RE DISCCART	449000.0	4612500.0	179.7	179.7
RE DISCCART	449500.0	4612500.0	179.59	179.59
RE DISCCART	450000.0	4612500.0	179.77	179.77
RE DISCCART	450500.0	4612500.0	178.49	178.49
RE DISCCART	451000.0	4612500.0	179.71	179.71
RE DISCCART	451500.0	4612500.0	178.63	178.63
RE DISCCART	457000.0	4612500.0	179.	179.
RE DISCCART	457500.0	4612500.0	179.42	179.42
RE DISCCART	458000.0	4612500.0	188.17	188.17
RE DISCCART	458500.0	4612500.0	183.15	183.15
RE DISCCART	459000.0	4612500.0	178.08	178.08
RE DISCCART	459500.0	4612500.0	178.89	178.89
RE DISCCART	460000.0	4612500.0	180.61	180.61

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RE DISCCART	449000.0	4613000.0	179.78	179.78
RE DISCCART	449500.0	4613000.0	178.49	178.49
RE DISCCART	450000.0	4613000.0	179.65	179.65
RE DISCCART	450500.0	4613000.0	178.49	178.49
RE DISCCART	451000.0	4613000.0	175.19	175.19
RE DISCCART	451500.0	4613000.0	178.29	178.29
RE DISCCART	457000.0	4613000.0	177.09	177.09
RE DISCCART	457500.0	4613000.0	178.28	178.28
RE DISCCART	458000.0	4613000.0	176.93	176.93
RE DISCCART	458500.0	4613000.0	177.27	177.27
RE DISCCART	459000.0	4613000.0	178.45	178.45
RE DISCCART	459500.0	4613000.0	178.96	178.96
RE DISCCART	460000.0	4613000.0	179.67	179.67
RE DISCCART	449000.0	4613500.0	181.28	181.28
RE DISCCART	449500.0	4613500.0	179.69	179.69
RE DISCCART	450000.0	4613500.0	179.19	179.19
RE DISCCART	450500.0	4613500.0	178.29	178.29
RE DISCCART	451000.0	4613500.0	177.27	178.48
RE DISCCART	451500.0	4613500.0	178.39	178.39
RE DISCCART	457000.0	4613500.0	177.09	177.09
RE DISCCART	457500.0	4613500.0	177.09	177.09
RE DISCCART	458000.0	4613500.0	176.95	176.95
RE DISCCART	458500.0	4613500.0	180.9	180.9
RE DISCCART	459000.0	4613500.0	178.18	178.18
RE DISCCART	459500.0	4613500.0	179.99	179.99
RE DISCCART	460000.0	4613500.0	179.91	179.91
RE DISCCART	449000.0	4614000.0	182.54	182.54
RE DISCCART	449500.0	4614000.0	179.72	179.72
RE DISCCART	450000.0	4614000.0	178.74	178.74
RE DISCCART	450500.0	4614000.0	175.19	175.19
RE DISCCART	451000.0	4614000.0	175.19	175.19
RE DISCCART	451500.0	4614000.0	178.29	178.29
RE DISCCART	457000.0	4614000.0	177.09	177.09
RE DISCCART	457500.0	4614000.0	177.85	177.85
RE DISCCART	458000.0	4614000.0	177.94	177.94
RE DISCCART	458500.0	4614000.0	177.86	177.86
RE DISCCART	459000.0	4614000.0	178.75	178.75
RE DISCCART	459500.0	4614000.0	180.26	180.26
RE DISCCART	460000.0	4614000.0	179.27	179.27
RE DISCCART	449000.0	4614500.0	180.54	180.54
RE DISCCART	449500.0	4614500.0	179.65	179.65
RE DISCCART	450000.0	4614500.0	178.29	178.29
RE DISCCART	450500.0	4614500.0	175.19	175.19
RE DISCCART	451000.0	4614500.0	175.19	175.19
RE DISCCART	451500.0	4614500.0	177.32	177.32
RE DISCCART	457000.0	4614500.0	177.09	177.09
RE DISCCART	457500.0	4614500.0	177.65	177.65
RE DISCCART	458000.0	4614500.0	178.39	178.39

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RE DISCCART	458500.0	4614500.0	178.24	178.24
RE DISCCART	459000.0	4614500.0	179.16	179.16
RE DISCCART	459500.0	4614500.0	180.73	180.73
RE DISCCART	460000.0	4614500.0	175.54	175.54
RE DISCCART	449000.0	4615000.0	182.59	182.59
RE DISCCART	449500.0	4615000.0	179.69	179.69
RE DISCCART	450000.0	4615000.0	178.7	178.7
RE DISCCART	450500.0	4615000.0	178.29	178.29
RE DISCCART	451000.0	4615000.0	175.19	175.19
RE DISCCART	451500.0	4615000.0	175.19	175.19
RE DISCCART	457000.0	4615000.0	177.09	177.09
RE DISCCART	457500.0	4615000.0	177.74	177.74
RE DISCCART	458000.0	4615000.0	178.06	178.06
RE DISCCART	458500.0	4615000.0	178.77	178.77
RE DISCCART	459000.0	4615000.0	175.54	175.54
RE DISCCART	459500.0	4615000.0	175.54	175.54
RE DISCCART	460000.0	4615000.0	175.54	175.54
RE DISCCART	449000.0	4615500.0	181.36	181.36
RE DISCCART	449500.0	4615500.0	179.54	179.54
RE DISCCART	450000.0	4615500.0	178.59	178.59
RE DISCCART	450500.0	4615500.0	180.56	183.03
RE DISCCART	451000.0	4615500.0	178.29	178.29
RE DISCCART	451500.0	4615500.0	175.49	175.49
RE DISCCART	457000.0	4615500.0	178.48	178.48
RE DISCCART	457500.0	4615500.0	178.16	178.16
RE DISCCART	458000.0	4615500.0	179.33	179.33
RE DISCCART	458500.0	4615500.0	175.54	175.54
RE DISCCART	459000.0	4615500.0	175.54	175.54
RE DISCCART	459500.0	4615500.0	175.54	175.54
RE DISCCART	460000.0	4615500.0	175.23	175.23
RE DISCCART	449000.0	4616000.0	181.66	181.66
RE DISCCART	449500.0	4616000.0	180.79	180.79
RE DISCCART	450000.0	4616000.0	179.31	179.31
RE DISCCART	450500.0	4616000.0	184.68	184.68
RE DISCCART	451000.0	4616000.0	185.29	185.29
RE DISCCART	451500.0	4616000.0	176.55	178.43
RE DISCCART	457000.0	4616000.0	178.64	185.35
RE DISCCART	457500.0	4616000.0	179.75	179.75
RE DISCCART	458000.0	4616000.0	175.54	175.54
RE DISCCART	458500.0	4616000.0	175.54	175.54
RE DISCCART	459000.0	4616000.0	175.53	175.53
RE DISCCART	459500.0	4616000.0	175.19	175.19
RE DISCCART	460000.0	4616000.0	175.19	175.19
RE DISCCART	449000.0	4616500.0	182.19	182.19
RE DISCCART	449500.0	4616500.0	181.91	181.91
RE DISCCART	450000.0	4616500.0	179.29	179.29
RE DISCCART	450500.0	4616500.0	179.57	179.57
RE DISCCART	451000.0	4616500.0	191.5	191.5

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RE DISCCART 451500.0 4616500.0 194. 194.
RE DISCCART 457000.0 4616500.0 179.22 179.22
RE DISCCART 457500.0 4616500.0 175.54 175.54
RE DISCCART 458000.0 4616500.0 175.54 175.54
RE DISCCART 458500.0 4616500.0 175.4 175.4
RE DISCCART 459000.0 4616500.0 175.19 175.19
RE DISCCART 459500.0 4616500.0 175.19 175.19
RE DISCCART 460000.0 4616500.0 175.19 175.19
RE DISCCART 449000.0 4617000.0 182.05 182.05
RE DISCCART 449500.0 4617000.0 182.45 182.45
RE DISCCART 450000.0 4617000.0 179.91 179.91
RE DISCCART 450500.0 4617000.0 180.45 180.45
RE DISCCART 451000.0 4617000.0 184.01 185.93
RE DISCCART 451500.0 4617000.0 183.08 183.08
RE DISCCART 457000.0 4617000.0 178.93 178.93
RE DISCCART 457500.0 4617000.0 175.54 175.54
RE DISCCART 458000.0 4617000.0 175.29 175.29
RE DISCCART 458500.0 4617000.0 175.19 175.19
RE DISCCART 459000.0 4617000.0 175.19 175.19
RE DISCCART 459500.0 4617000.0 175.19 175.19
RE DISCCART 460000.0 4617000.0 175.19 175.19
RE DISCCART 449000.0 4617500.0 181.75 181.75
RE DISCCART 449500.0 4617500.0 182.79 182.79
RE DISCCART 450000.0 4617500.0 180.89 180.89
RE DISCCART 450500.0 4617500.0 179.74 179.74
RE DISCCART 451000.0 4617500.0 179.68 179.68
RE DISCCART 451500.0 4617500.0 178.94 178.94
RE DISCCART 452000.0 4617500.0 186.46 186.46
RE DISCCART 452500.0 4617500.0 183.11 183.11
RE DISCCART 453000.0 4617500.0 178.65 178.65
RE DISCCART 453500.0 4617500.0 180.31 180.31
RE DISCCART 454000.0 4617500.0 178.21 178.21
RE DISCCART 454500.0 4617500.0 178.23 178.23
RE DISCCART 455000.0 4617500.0 178.19 178.19
RE DISCCART 455500.0 4617500.0 179.82 179.82
RE DISCCART 456000.0 4617500.0 179.87 179.87
RE DISCCART 456500.0 4617500.0 178.43 178.43
RE DISCCART 457000.0 4617500.0 175.54 175.54
RE DISCCART 457500.0 4617500.0 175.54 175.54
RE DISCCART 458000.0 4617500.0 175.19 175.19
RE DISCCART 458500.0 4617500.0 175.19 175.19
RE DISCCART 459000.0 4617500.0 175.19 175.19
RE DISCCART 459500.0 4617500.0 175.19 175.19
RE DISCCART 460000.0 4617500.0 175.19 175.19
RE DISCCART 449000.0 4618000.0 181.45 181.45
RE DISCCART 449500.0 4618000.0 181.73 181.73
RE DISCCART 450000.0 4618000.0 182.15 182.15
RE DISCCART 450500.0 4618000.0 183.71 183.71

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RE DISCCART	451000.0	4618000.0	179.78	179.78
RE DISCCART	451500.0	4618000.0	180.32	180.32
RE DISCCART	452000.0	4618000.0	179.69	179.69
RE DISCCART	452500.0	4618000.0	178.58	178.58
RE DISCCART	453000.0	4618000.0	178.49	178.49
RE DISCCART	453500.0	4618000.0	181.2	181.2
RE DISCCART	454000.0	4618000.0	178.78	178.78
RE DISCCART	454500.0	4618000.0	178.88	178.88
RE DISCCART	455000.0	4618000.0	178.68	178.68
RE DISCCART	455500.0	4618000.0	180.34	180.34
RE DISCCART	456000.0	4618000.0	179.52	179.52
RE DISCCART	456500.0	4618000.0	175.54	175.54
RE DISCCART	457000.0	4618000.0	175.54	175.54
RE DISCCART	457500.0	4618000.0	175.36	175.36
RE DISCCART	458000.0	4618000.0	175.19	175.19
RE DISCCART	458500.0	4618000.0	175.19	175.19
RE DISCCART	459000.0	4618000.0	175.19	175.19
RE DISCCART	459500.0	4618000.0	175.19	175.19
RE DISCCART	460000.0	4618000.0	175.19	175.19
RE DISCCART	449000.0	4618500.0	182.16	182.16
RE DISCCART	449500.0	4618500.0	182.49	182.49
RE DISCCART	450000.0	4618500.0	181.76	181.76
RE DISCCART	450500.0	4618500.0	183.49	183.49
RE DISCCART	451000.0	4618500.0	178.27	178.27
RE DISCCART	451500.0	4618500.0	179.93	179.93
RE DISCCART	452000.0	4618500.0	179.17	179.17
RE DISCCART	452500.0	4618500.0	178.57	178.57
RE DISCCART	453000.0	4618500.0	178.48	178.48
RE DISCCART	453500.0	4618500.0	178.28	178.28
RE DISCCART	454000.0	4618500.0	178.55	178.55
RE DISCCART	454500.0	4618500.0	179.47	179.47
RE DISCCART	455000.0	4618500.0	175.26	186.99
RE DISCCART	455500.0	4618500.0	179.69	179.69
RE DISCCART	456000.0	4618500.0	179.77	179.77
RE DISCCART	456500.0	4618500.0	175.54	175.54
RE DISCCART	457000.0	4618500.0	175.4	175.4
RE DISCCART	457500.0	4618500.0	175.19	175.19
RE DISCCART	458000.0	4618500.0	175.19	175.19
RE DISCCART	458500.0	4618500.0	175.19	175.19
RE DISCCART	459000.0	4618500.0	175.19	175.19
RE DISCCART	459500.0	4618500.0	175.19	175.19
RE DISCCART	460000.0	4618500.0	175.19	175.19
RE DISCCART	449000.0	4619000.0	182.29	182.29
RE DISCCART	449500.0	4619000.0	180.94	180.94
RE DISCCART	450000.0	4619000.0	180.4	180.4
RE DISCCART	450500.0	4619000.0	178.6	178.6
RE DISCCART	451000.0	4619000.0	178.27	178.27
RE DISCCART	451500.0	4619000.0	178.55	178.55

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RE DISCCART	452000.0	4619000.0	178.29	178.29
RE DISCCART	452500.0	4619000.0	178.2	178.2
RE DISCCART	453000.0	4619000.0	179.85	179.85
RE DISCCART	453500.0	4619000.0	183.24	183.24
RE DISCCART	454000.0	4619000.0	178.17	178.17
RE DISCCART	454500.0	4619000.0	182.73	182.73
RE DISCCART	455000.0	4619000.0	179.08	179.08
RE DISCCART	455500.0	4619000.0	179.7	179.7
RE DISCCART	456000.0	4619000.0	182.38	182.38
RE DISCCART	456500.0	4619000.0	175.19	175.19
RE DISCCART	457000.0	4619000.0	175.19	175.19
RE DISCCART	457500.0	4619000.0	175.19	175.19
RE DISCCART	458000.0	4619000.0	175.19	175.19
RE DISCCART	458500.0	4619000.0	175.19	175.19
RE DISCCART	459000.0	4619000.0	175.19	175.19
RE DISCCART	459500.0	4619000.0	175.19	175.19
RE DISCCART	460000.0	4619000.0	175.19	175.19
RE DISCCART	449000.0	4619500.0	181.64	181.64
RE DISCCART	449500.0	4619500.0	183.2	183.2
RE DISCCART	450000.0	4619500.0	180.81	180.81
RE DISCCART	450500.0	4619500.0	179.87	179.87
RE DISCCART	451000.0	4619500.0	180.41	180.41
RE DISCCART	451500.0	4619500.0	182.21	182.21
RE DISCCART	452000.0	4619500.0	182.86	182.86
RE DISCCART	452500.0	4619500.0	182.58	182.58
RE DISCCART	453000.0	4619500.0	180.85	180.85
RE DISCCART	453500.0	4619500.0	178.24	178.24
RE DISCCART	454000.0	4619500.0	182.29	182.29
RE DISCCART	454500.0	4619500.0	179.21	179.21
RE DISCCART	455000.0	4619500.0	176.81	176.81
RE DISCCART	455500.0	4619500.0	181.56	181.56
RE DISCCART	456000.0	4619500.0	181.12	181.12
RE DISCCART	456500.0	4619500.0	175.19	175.19
RE DISCCART	457000.0	4619500.0	175.19	175.19
RE DISCCART	457500.0	4619500.0	175.19	175.19
RE DISCCART	458000.0	4619500.0	175.19	175.19
RE DISCCART	458500.0	4619500.0	175.19	175.19
RE DISCCART	459000.0	4619500.0	175.19	175.19
RE DISCCART	459500.0	4619500.0	175.19	175.19
RE DISCCART	460000.0	4619500.0	175.19	175.19
RE DISCCART	449000.0	4620000.0	178.09	178.09
RE DISCCART	449500.0	4620000.0	181.25	181.25
RE DISCCART	450000.0	4620000.0	182.61	182.61
RE DISCCART	450500.0	4620000.0	178.48	178.48
RE DISCCART	451000.0	4620000.0	178.88	178.88
RE DISCCART	451500.0	4620000.0	178.53	178.53
RE DISCCART	452000.0	4620000.0	178.87	178.87
RE DISCCART	452500.0	4620000.0	179.53	179.53

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RE DISCCART 453000.0 4620000.0 178.93 178.93
RE DISCCART 453500.0 4620000.0 184.25 184.25
RE DISCCART 454000.0 4620000.0 179.77 179.77
RE DISCCART 454500.0 4620000.0 179.69 179.69
RE DISCCART 455000.0 4620000.0 179.43 179.43
RE DISCCART 455500.0 4620000.0 175.19 175.19
RE DISCCART 456000.0 4620000.0 182.51 182.51
RE DISCCART 456500.0 4620000.0 175.19 175.19
RE DISCCART 457000.0 4620000.0 175.19 175.19
RE DISCCART 457500.0 4620000.0 175.19 175.19
RE DISCCART 458000.0 4620000.0 175.19 175.19
RE DISCCART 458500.0 4620000.0 175.19 175.19
RE DISCCART 459000.0 4620000.0 175.19 175.19
RE DISCCART 459500.0 4620000.0 175.19 175.19
RE DISCCART 460000.0 4620000.0 175.19 175.19
RE DISCCART 449000.0 4620500.0 179.94 179.94
RE DISCCART 449500.0 4620500.0 180.73 180.73
RE DISCCART 450000.0 4620500.0 181.21 181.21
RE DISCCART 450500.0 4620500.0 179.86 179.86
RE DISCCART 451000.0 4620500.0 178.19 178.19
RE DISCCART 451500.0 4620500.0 178.78 178.78
RE DISCCART 452000.0 4620500.0 180.45 180.45
RE DISCCART 452500.0 4620500.0 182.02 182.02
RE DISCCART 453000.0 4620500.0 184.42 184.42
RE DISCCART 453500.0 4620500.0 180.54 180.54
RE DISCCART 454000.0 4620500.0 179.79 179.79
RE DISCCART 454500.0 4620500.0 178.85 178.85
RE DISCCART 455000.0 4620500.0 178.95 178.95
RE DISCCART 455500.0 4620500.0 180.39 180.39
RE DISCCART 456000.0 4620500.0 176.82 180.36
RE DISCCART 456500.0 4620500.0 175.19 175.19
RE DISCCART 457000.0 4620500.0 175.19 175.19
RE DISCCART 457500.0 4620500.0 175.19 175.19
RE DISCCART 458000.0 4620500.0 175.19 175.19
RE DISCCART 458500.0 4620500.0 175.19 175.19
RE DISCCART 459000.0 4620500.0 175.19 175.19
RE DISCCART 459500.0 4620500.0 175.19 175.19
RE DISCCART 460000.0 4620500.0 175.19 175.19
RE FINISHED

ME STARTING
ME SURFFILE "MDW_DVN_2015.SFC" FREE
ME PROFFILE "MDW_DVN_2015.PFL" FREE
ME SURFDATA 14819 2015 "CHICAGO MIDWAY INTL ARPT, IL"
ME UAIRDATA 94982 2015 "DAVENPORT MUNICIPAL AIRPT, IA"
ME PROFBASE 175 METERS
ME FINISHED

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OU STARTING
OU RECTABLE 24 FIRST
OU PLOTFILE 24 ALL FIRST "Phosphorus_2015_OTHER.GRF" 31
OU PLOTFILE ANNUAL ALL "Phosphorus_2015_OTHER.GRF" 31
OU SUMMFILE "Phosphorus_2015_OTHER.SUM"
OU FINISHED

Phosphorus_2016_OTHER.DTA

 BEEST Express Run *****
 **BEE-Line Software: (Version 12.01) data input file
 ** Model: AERMOD File Creation Date: 2/7/2020 Time: 1:35:38 PM
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CO STARTING
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 CO FINISHED

SO STARTING
 SO ELEVUNIT METERS
 SO LOCATION RTO POINT 454280.579 4614874.64 178.19
 SO SRCPARAM RTO 0.0153087424873 12.4968 314.26 12.914194 1.8288
 SO BUILDHGT RTO 18.29 18.29 18.29 0.00 0.00 0.00
 SO BUILDHGT RTO 0.00 0.00 0.00 18.29 18.29 18.29
 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
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 SO BUILDHGT RTO 18.29 18.29 18.29 18.29 18.29 18.29
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDWID RTO 39.01 39.78 39.35 0.00 0.00 0.00
 SO BUILDWID RTO 0.00 0.00 0.00 36.02 34.83 32.58
 SO BUILDWID RTO 29.68 28.31 26.07 29.85 33.96 37.05
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO BUILDLEN RTO 36.02 34.83 32.58 0.00 0.00 0.00
 SO BUILDLEN RTO 0.00 0.00 0.00 39.01 39.78 39.35
 SO BUILDLEN RTO 37.72 34.94 31.11 33.05 35.12 36.12
 SO XBADJ RTO 6.90 3.87 0.73 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 -40.62 -44.68 -47.38
 SO XBADJ RTO -48.63 -48.42 -46.73 -47.44 -47.36 -45.83
 SO XBADJ RTO -42.92 -38.70 -33.30 0.00 0.00 0.00
 SO XBADJ RTO 0.00 0.00 0.00 1.61 4.89 8.03
 SO XBADJ RTO 10.92 13.47 15.62 14.39 12.24 9.72
 SO YBADJ RTO 21.11 24.78 27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 24.91 21.29 17.01
 SO YBADJ RTO 12.05 5.52 -1.19 -6.80 -11.98 -16.80
 SO YBADJ RTO -21.11 -24.78 -27.70 0.00 0.00 0.00
 SO YBADJ RTO 0.00 0.00 0.00 -24.91 -21.29 -17.01
 SO YBADJ RTO -12.05 -5.52 1.19 6.80 11.98 16.80

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S0 LOCATION V1 VOLUME	454297.692	4614928.02	178.19				
S0 SRCPARAM V1	3.950033555E-05	0.6096	0.70884288	0.5670804			
S0 LOCATION V2 VOLUME	454259.682	4614907.47	178.19				
S0 SRCPARAM V2	4.762719885E-06	9.144	5.95423752	8.5060536			
S0 LOCATION V3 VOLUME	454235.875	4614892.42	178.19				
S0 SRCPARAM V3	1.469135287E-05	0.6096	0.42528744	0.5670804			
S0 LOCATION V4 VOLUME	454226.98	4614887.08	178.19				
S0 SRCPARAM V4	1.259474814E-06	3.81	3.54418392	3.54418392			
S0 LOCATION V5 VOLUME	454218.08	4614878.54	178.19				
S0 SRCPARAM V5	1.974386788E-05	3.81	1.41768576	3.54418392			
S0 LOCATION V6 VOLUME	454225.909	4614867.5	178.19				
S0 SRCPARAM V6	2.455698692E-05	5.334	4.2530268	4.96186968			
S0 LOCATION V7 VOLUME	454197.08	4614871.06	178.19				
S0 SRCPARAM V7	1.530874249E-05	4.572	1.41768576	4.2530268			
S0 LOCATION V8 VOLUME	454193.521	4614874.62	178.19				
S0 SRCPARAM V8	2.561536912E-06	4.572	1.41768576	4.2530268			
S0 LOCATION V9 VOLUME	454213.452	4614885.66	178.19				
S0 SRCPARAM V9	4.837058634E-06	3.81	1.7721072	3.54418392			
S0 LOCATION V10 VOLUME	454173.38	4614858.04	178.19				
S0 SRCPARAM V10	2.53129742E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION V11 VOLUME	454170.92	4614872.75	178.19				
S0 SRCPARAM V11	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V12 VOLUME	454179.64	4614840.61	178.19				
S0 SRCPARAM V12	2.095344754E-05	5.334	8.5060536	4.96186968			
S0 LOCATION V13 VOLUME	454094.65	4614815.89	177.72				
S0 SRCPARAM V13	5.954659835E-05	0.9144	1.41768576	0.85060536			
S0 LOCATION VN1 VOLUME	454294.913	4614781.55	178.19				
S0 SRCPARAM VN1	2.286861532E-04	6.096	7.08836784	5.67071256			
S0 LOCATION VN2 VOLUME	454328.547	4614797.57	178.19				
S0 SRCPARAM VN2	6.349033201E-05	6.096	7.08836784	5.67071256			
S0 LOCATION VN3 VOLUME	454345.365	4614834.4	178.19				
S0 SRCPARAM VN3	1.300298127E-04	3.81	7.08836784	3.54418392			
S0 LOCATION VN4 VOLUME	454300.519	4614814.38	178.19				
S0 SRCPARAM VN4	5.601865769E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN5 VOLUME	454338.158	4614842.41	178.19				
S0 SRCPARAM VN5	3.682918049E-06	3.81	7.08836784	3.54418392			
S0 LOCATION VN6 VOLUME	454383.003	4614853.62	178.19				
S0 SRCPARAM VN6	5.184812785E-05	3.81	2.83534104	3.54418392			
S0 LOCATION DC1 POINT	454378.438	4614823.04	178.19				
S0 SRCPARAM DC1	6.052938182E-05	14.3256	295.37	19.404171	0.6096		
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDHGT DC1		13.72	13.72	13.72	13.72	13.72	13.72
S0 BUILDWID DC1		66.64	68.61	68.49	66.29	62.07	55.97
S0 BUILDWID DC1		60.44	65.23	68.04	68.78	67.44	64.04

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SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDWID DC1	66.64	68.61	68.49	66.29	62.07	55.97
SO BUILDWID DC1	60.44	65.23	68.04	68.78	67.44	64.04
SO BUILDWID DC1	58.70	51.57	42.88	49.14	56.76	62.65
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO BUILDLEN DC1	68.78	67.44	64.04	58.70	51.57	42.88
SO BUILDLEN DC1	49.14	56.76	62.65	66.64	68.61	68.49
SO BUILDLEN DC1	66.29	62.07	55.97	60.44	65.23	68.04
SO XBADJ DC1	-55.37	-56.48	-55.86	-53.55	-49.61	-44.17
SO XBADJ DC1	-45.52	-46.90	-46.86	-45.39	-42.55	-38.41
SO XBADJ DC1	-33.11	-26.80	-19.67	-18.08	-17.02	-15.45
SO XBADJ DC1	-13.41	-10.96	-8.18	-5.15	-1.96	1.29
SO XBADJ DC1	-3.62	-9.86	-15.79	-21.25	-26.06	-30.08
SO XBADJ DC1	-33.18	-35.28	-36.30	-42.36	-48.21	-52.59
SO YBADJ DC1	12.07	8.24	4.17	-0.04	-4.24	-8.32
SO YBADJ DC1	-12.14	-15.59	-18.57	-20.98	-22.76	-23.84
SO YBADJ DC1	-24.20	-23.83	-22.73	-20.95	-18.52	-15.53
SO YBADJ DC1	-12.07	-8.24	-4.17	0.04	4.24	8.32
SO YBADJ DC1	12.14	15.59	18.57	20.98	22.76	23.84
SO YBADJ DC1	24.20	23.83	22.73	20.95	18.52	15.53
SO LOCATION AB_0001 VOLUME	454569.7	4615033.84	178.19			
SO SRCPARAM AB_0001	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0002 VOLUME	454557.7	4615033.84	178.19			
SO SRCPARAM AB_0002	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0003 VOLUME	454545.7	4615033.84	178.19			
SO SRCPARAM AB_0003	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0004 VOLUME	454533.7	4615033.84	178.19			
SO SRCPARAM AB_0004	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0005 VOLUME	454521.7	4615033.84	178.19			
SO SRCPARAM AB_0005	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0006 VOLUME	454509.7	4615033.84	178.19			
SO SRCPARAM AB_0006	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0007 VOLUME	454497.7	4615033.84	178.19			
SO SRCPARAM AB_0007	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0008 VOLUME	454485.7	4615033.84	178.19			
SO SRCPARAM AB_0008	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0009 VOLUME	454473.7	4615033.84	178.19			
SO SRCPARAM AB_0009	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION AB_0010 VOLUME	454461.7	4615033.84	178.19			
SO SRCPARAM AB_0010	6.091997525E-06	2.59	5.58	2.41		
SO LOCATION CDE_0001 VOLUME	454449.996	4615030.05	178.19			
SO SRCPARAM CDE_0001	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0002 VOLUME	454440.148	4615023.19	178.19			
SO SRCPARAM CDE_0002	1.272326598E-06	2.59	5.58	2.41		
SO LOCATION CDE_0003 VOLUME	454430.299	4615016.34	178.19			
SO SRCPARAM CDE_0003	1.272326598E-06	2.59	5.58	2.41		

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SO	LOCATION	CDE_0004	VOLUME	454420.675	4615009.19	178.19
SO	SRCPARAM	CDE_0004		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0005	VOLUME	454411.484	4615001.47	178.19
SO	SRCPARAM	CDE_0005		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0006	VOLUME	454402.292	4614993.76	178.19
SO	SRCPARAM	CDE_0006		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0007	VOLUME	454394.404	4614984.73	178.19
SO	SRCPARAM	CDE_0007		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0008	VOLUME	454386.594	4614975.62	178.19
SO	SRCPARAM	CDE_0008		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0009	VOLUME	454380.888	4614965.12	178.19
SO	SRCPARAM	CDE_0009		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0010	VOLUME	454375.67	4614954.32	178.19
SO	SRCPARAM	CDE_0010		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0011	VOLUME	454370.542	4614943.47	178.19
SO	SRCPARAM	CDE_0011		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0012	VOLUME	454366.572	4614932.28	178.19
SO	SRCPARAM	CDE_0012		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0013	VOLUME	454364.926	4614920.39	178.19
SO	SRCPARAM	CDE_0013		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0014	VOLUME	454361.686	4614909.6	178.19
SO	SRCPARAM	CDE_0014		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0015	VOLUME	454351.165	4614903.83	178.19
SO	SRCPARAM	CDE_0015		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0016	VOLUME	454340.644	4614898.06	178.19
SO	SRCPARAM	CDE_0016		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0017	VOLUME	454330.123	4614892.29	178.19
SO	SRCPARAM	CDE_0017		1.272326598E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0018	VOLUME	454319.602	4614886.52	178.19
SO	SRCPARAM	CDE_0018		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0019	VOLUME	454309.08	4614880.75	178.19
SO	SRCPARAM	CDE_0019		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0020	VOLUME	454298.559	4614874.97	178.19
SO	SRCPARAM	CDE_0020		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0021	VOLUME	454288.038	4614869.2	178.19
SO	SRCPARAM	CDE_0021		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0022	VOLUME	454277.517	4614863.43	178.19
SO	SRCPARAM	CDE_0022		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0023	VOLUME	454266.996	4614857.66	178.19
SO	SRCPARAM	CDE_0023		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0024	VOLUME	454256.475	4614851.89	178.19
SO	SRCPARAM	CDE_0024		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0025	VOLUME	454245.953	4614846.12	178.19
SO	SRCPARAM	CDE_0025		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0026	VOLUME	454235.432	4614840.35	178.19
SO	SRCPARAM	CDE_0026		2.643561532E-06	2.59	5.58 2.41
SO	LOCATION	CDE_0027	VOLUME	454224.911	4614834.58	178.19
SO	SRCPARAM	CDE_0027		2.643561532E-06	2.59	5.58 2.41

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SO LOCATION CDE_0028 VOLUME 454214.39 4614828.81 178.19
SO SRCPARAM CDE_0028 2.643561532E-06 2.59 5.58 2.41
SO LOCATION CDE_0029 VOLUME 454203.869 4614823.03 178.19
SO SRCPARAM CDE_0029 2.643561532E-06 2.59 5.58 2.41
SO LOCATION I_0001 VOLUME 454452.749 4615028.45 178.19
SO SRCPARAM I_0001 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0002 VOLUME 454447.62 4615017.6 178.19
SO SRCPARAM I_0002 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0003 VOLUME 454442.491 4615006.75 178.19
SO SRCPARAM I_0003 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0004 VOLUME 454437.363 4614995.9 178.19
SO SRCPARAM I_0004 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0005 VOLUME 454432.234 4614985.05 178.19
SO SRCPARAM I_0005 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0006 VOLUME 454427.105 4614974.21 178.19
SO SRCPARAM I_0006 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0007 VOLUME 454421.976 4614963.36 178.19
SO SRCPARAM I_0007 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0008 VOLUME 454416.847 4614952.51 178.19
SO SRCPARAM I_0008 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0009 VOLUME 454411.718 4614941.66 178.19
SO SRCPARAM I_0009 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0010 VOLUME 454406.589 4614930.81 178.19
SO SRCPARAM I_0010 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0011 VOLUME 454401.46 4614919.96 178.19
SO SRCPARAM I_0011 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0012 VOLUME 454396.332 4614909.11 178.19
SO SRCPARAM I_0012 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0013 VOLUME 454391.203 4614898.26 178.19
SO SRCPARAM I_0013 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0014 VOLUME 454386.074 4614887.42 178.19
SO SRCPARAM I_0014 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0015 VOLUME 454380.945 4614876.57 178.19
SO SRCPARAM I_0015 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0016 VOLUME 454375.816 4614865.72 178.19
SO SRCPARAM I_0016 2.763889508E-07 2.59 5.58 2.41
SO LOCATION I_0017 VOLUME 454370.687 4614854.87 178.19
SO SRCPARAM I_0017 2.763889508E-07 2.59 5.58 2.41
SO LOCATION H_0001 VOLUME 454569.74 4615048.61 178.19
SO SRCPARAM H_0001 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0002 VOLUME 454557.74 4615048.58 178.19
SO SRCPARAM H_0002 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0003 VOLUME 454545.74 4615048.55 178.19
SO SRCPARAM H_0003 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0004 VOLUME 454533.74 4615048.51 178.19
SO SRCPARAM H_0004 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0005 VOLUME 454521.74 4615048.48 178.19
SO SRCPARAM H_0005 1.777830095E-06 2.59 5.58 2.41

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SO LOCATION H_0006 VOLUME 454509.74 4615048.45 178.19
SO SRCPARAM H_0006 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0007 VOLUME 454497.74 4615048.41 178.19
SO SRCPARAM H_0007 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0008 VOLUME 454485.74 4615048.38 178.19
SO SRCPARAM H_0008 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0009 VOLUME 454473.826 4615049.52 178.19
SO SRCPARAM H_0009 1.777830095E-06 2.59 5.58 2.41
SO LOCATION H_0010 VOLUME 454462.408 4615052.96 178.19
SO SRCPARAM H_0010 1.777830095E-06 2.59 5.58 2.41
SO LOCATION FG_0001 VOLUME 454450.378 4615031.43 178.19
SO SRCPARAM FG_0001 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0002 VOLUME 454439.841 4615025.69 178.19
SO SRCPARAM FG_0002 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0003 VOLUME 454429.304 4615019.95 178.19
SO SRCPARAM FG_0003 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0004 VOLUME 454418.767 4615014.21 178.19
SO SRCPARAM FG_0004 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0005 VOLUME 454408.23 4615008.46 178.19
SO SRCPARAM FG_0005 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0006 VOLUME 454397.693 4615002.72 178.19
SO SRCPARAM FG_0006 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0007 VOLUME 454387.156 4614996.98 178.19
SO SRCPARAM FG_0007 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0008 VOLUME 454376.619 4614991.24 178.19
SO SRCPARAM FG_0008 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0009 VOLUME 454366.082 4614985.5 178.19
SO SRCPARAM FG_0009 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0010 VOLUME 454355.545 4614979.75 178.19
SO SRCPARAM FG_0010 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0011 VOLUME 454345.008 4614974.01 178.19
SO SRCPARAM FG_0011 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0012 VOLUME 454334.471 4614968.27 178.19
SO SRCPARAM FG_0012 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0013 VOLUME 454323.934 4614962.53 178.19
SO SRCPARAM FG_0013 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0014 VOLUME 454313.397 4614956.79 178.19
SO SRCPARAM FG_0014 1.207576287E-06 2.59 5.58 2.41
SO LOCATION FG_0015 VOLUME 454301.708 4614955.36 178.19
SO SRCPARAM FG_0015 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0016 VOLUME 454289.711 4614955.09 178.19
SO SRCPARAM FG_0016 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0017 VOLUME 454277.714 4614954.82 178.19
SO SRCPARAM FG_0017 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0018 VOLUME 454266.978 4614949.96 178.19
SO SRCPARAM FG_0018 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0019 VOLUME 454256.532 4614944.06 178.19
SO SRCPARAM FG_0019 2.674557011E-06 2.59 5.58 2.41

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SO LOCATION FG_0020 VOLUME 454246.087 4614938.15 178.19
SO SRCPARAM FG_0020 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0021 VOLUME 454235.642 4614932.24 178.19
SO SRCPARAM FG_0021 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0022 VOLUME 454225.196 4614926.34 178.19
SO SRCPARAM FG_0022 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0023 VOLUME 454214.751 4614920.43 178.19
SO SRCPARAM FG_0023 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0024 VOLUME 454204.305 4614914.52 178.19
SO SRCPARAM FG_0024 2.674557011E-06 2.59 5.58 2.41
SO LOCATION FG_0025 VOLUME 454193.86 4614908.61 178.19
SO SRCPARAM FG_0025 2.674557011E-06 2.59 5.58 2.41
SO EMISFACT RTO HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1
SO EMISFACT RTO HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V2 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V2 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V3 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V3 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V5 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V5 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V7 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V7 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V8 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
1 1 1 1
SO EMISFACT V8 HRDOW 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
SO EMISFACT V1 HRDOW 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 1 1 1 1 1
SO EMISFACT V1 HRDOW 1 1 1 1 1 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684 0.0684
SO EMISFACT V4 HRDOW 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 1 1 1 1 1 1 1 1 1
1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 1 1 1 1 1
SO EMISFACT V4 HRDOW 1 1 1 1 1 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000
0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000

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SO EMISFACT V9 HRDOW 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 1 1 1 1 1 1 1
1 1 1 1 1 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195
0.0195 0.0195 1 1 1 1 1

SO EMISFACT V9 HRDOW 1 1 1 1 1 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195
0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195
0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195 0.0195
SO EMISFACT V11 HRDOW 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 1 1 1 1 1 1 1
1 2.1636 2.1636 2.1636 2.1636 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 1 1 1 1 1

SO EMISFACT V11 HRDOW 1 1 1 2.1636 2.1636 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650

SO EMISFACT V12 HRDOW 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 1 1 1 1 1 1 1
1 2.1636 2.1636 2.1636 2.1636 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 1 1 1 1 1

SO EMISFACT V12 HRDOW 1 1 1 2.1636 2.1636 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650 0.2650
0.2650

SO EMISFACT VN2 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 1 1
1 1 1 1 1

SO EMISFACT VN2 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0

SO EMISFACT VN3 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 1 1
1 1 1 1 1

SO EMISFACT VN3 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0

SO EMISFACT VN1 HRDOW 0.000103 0.000103 0.000103 0.000103 0.000103 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 1 1 1 1 1 1
1

SO EMISFACT VN1 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.000103 0.000103 0.000103 0.000103
0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103
0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103 0.000103
0.000103 0.000103 0.000103

SO EMISFACT VN4 HRDOW 0.0567 0.0567 0.0567 0.0567 0.0567 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 1 1 1 1 1 1 1

SO EMISFACT VN4 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.0567 0.0567 0.0567 0.0567 0.0567
0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567
0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567 0.0567

SO EMISFACT VN5 HRDOW 0.1438 0.1438 0.1438 0.1438 0.1438 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 1 1 1 1 1 1 1

SO EMISFACT VN5 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.1438 0.1438 0.1438 0.1438 0.1438
0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438
0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438 0.1438

SO EMISFACT VN6 HRDOW 0.0095 0.0095 0.0095 0.0095 0.0095 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.0095 0.0095 0.0095 0.0095 0.0095 0.0095 0.0095 1 1 1 1 1 1 1

SO EMISFACT VN6 HRDOW 1 1 1 1 1 1 1 1 1 1 1 0.0095 0.0095 0.0095 0.0095 0.0095

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SO EMISFACT CDE_0026 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT CDE_0027 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT CDE_0027 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT CDE_0028 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1
 SO EMISFACT CDE_0028 HRDOW 1 1 1 1 1 0
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 SO EMISFACT CDE_0029 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
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 SO EMISFACT CDE_0029 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0 0
 SO EMISFACT I_0001 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
 SO EMISFACT I_0001 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0
 SO EMISFACT I_0002 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
 SO EMISFACT I_0002 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0
 SO EMISFACT I_0003 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
 SO EMISFACT I_0003 HRDOW 1 1 1 1 1 0
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 SO EMISFACT I_0004 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
 SO EMISFACT I_0004 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0
 SO EMISFACT I_0005 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
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 0 0 0 0 0 0
 SO EMISFACT I_0006 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
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 1 1 1 1 1 1
 SO EMISFACT I_0007 HRDOW 1 1 1 1 1 0
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 SO EMISFACT I_0008 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1
 SO EMISFACT I_0008 HRDOW 1 1 1 1 1 0
 0 0 0 0 0 0
 SO EMISFACT I_0009 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1
 1 1 1 1 1 1

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SO EMISFACT FG_0018 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0019 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0019 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT FG_0020 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
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0 0 0 0 0 0 0
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1 1 1 1 1 1 1
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0 0 0 0 0 0 0
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1 1 1 1 1 1 1
SO EMISFACT FG_0024 HRDOW 1 1 1 1 1 0
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SO EMISFACT FG_0025 HRDOW 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1
SO EMISFACT FG_0025 HRDOW 1 1 1 1 1 0
0 0 0 0 0 0 0
SO EMISFACT V6 HRDOW 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 1 1 1 1 1 1
SO EMISFACT V6 HRDOW 1 1 1 1 1 1 1 1 1 1 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
0.1778 0.1778 0.1778 0.1778 0.1778 0.1778 0.1778
SO EMISFACT V13 HRDOW 0 0 0 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1
SO EMISFACT V13 HRDOW 1 1 1 0
0 0 0 0 0
SO EMISFACT V10 HRDOW 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1.7456 1.7456 1.7456 1.7456 0 0
0 0 0 0 0 0 0 1 1 1 1 1
SO EMISFACT V10 HRDOW 1 1 1 1.7456 1.7456 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS

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RE DISCCART	454084.4	4615065.4	176.19	178.19
RE DISCCART	454083.3	4615039.8	176.07	178.19
RE DISCCART	454082.2	4615014.1	175.94	178.19
RE DISCCART	454085.1	4614964.6	176.36	178.19
RE DISCCART	454088.0	4614915.0	176.78	176.78
RE DISCCART	454091.0	4614865.5	177.21	177.21
RE DISCCART	454093.9	4614816.0	177.63	177.63
RE DISCCART	454096.8	4614766.4	177.99	177.99
RE DISCCART	454099.7	4614716.9	178.2	178.2
RE DISCCART	454102.6	4614667.3	176.81	176.81
RE DISCCART	454105.5	4614617.8	176.3	178.19
RE DISCCART	454108.5	4614568.3	176.73	178.19
RE DISCCART	454111.4	4614518.7	177.14	177.14
RE DISCCART	454114.3	4614469.2	177.56	178.19
RE DISCCART	454107.8	4614425.2	176.75	176.75
RE DISCCART	454101.3	4614381.1	178.05	178.05
RE DISCCART	454094.7	4614337.1	177.87	177.87
RE DISCCART	454088.2	4614293.0	177.6	178.57
RE DISCCART	454081.7	4614249.0	176.52	178.19
RE DISCCART	454082.2	4614201.8	177.25	177.25
RE DISCCART	454082.8	4614154.7	177.44	177.44
RE DISCCART	454121.4	4614157.8	178.19	178.19
RE DISCCART	454160.0	4614160.9	178.19	178.19
RE DISCCART	454191.3	4614179.4	178.19	178.19
RE DISCCART	454222.7	4614198.0	178.19	178.19
RE DISCCART	454254.0	4614216.5	178.19	178.19
RE DISCCART	454253.2	4614226.3	178.19	178.19
RE DISCCART	454296.0	4614249.3	178.19	178.19
RE DISCCART	454338.8	4614272.3	178.19	178.19
RE DISCCART	454381.7	4614295.3	178.19	178.19
RE DISCCART	454424.5	4614318.3	178.19	178.19
RE DISCCART	454467.3	4614341.4	178.19	178.19
RE DISCCART	454510.2	4614364.4	178.19	178.19
RE DISCCART	454553.0	4614387.4	178.19	178.19
RE DISCCART	454595.8	4614410.4	178.19	178.19
RE DISCCART	454595.8	4614459.2	178.19	178.19
RE DISCCART	454595.8	4614507.9	178.19	178.19
RE DISCCART	454595.8	4614556.7	178.19	178.19
RE DISCCART	454595.8	4614605.5	178.19	178.19
RE DISCCART	454595.8	4614654.3	178.19	178.19
RE DISCCART	454595.8	4614703.0	178.19	178.19
RE DISCCART	454595.8	4614751.8	178.19	178.19
RE DISCCART	454595.8	4614800.6	178.19	178.19
RE DISCCART	454595.8	4614849.3	178.19	178.19
RE DISCCART	454595.8	4614898.1	178.19	178.19
RE DISCCART	454595.8	4614946.9	178.19	178.19
RE DISCCART	454595.8	4614995.6	178.19	178.19
RE DISCCART	454595.8	4615044.4	178.19	178.19

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RE DISCCART	454595.8	4615093.2	178.19	178.19
RE DISCCART	454595.8	4615142.0	178.19	178.19
RE DISCCART	454595.8	4615190.7	178.19	178.19
RE DISCCART	454595.8	4615239.5	178.19	178.19
RE DISCCART	454551.9	4615219.2	178.19	178.19
RE DISCCART	454508.0	4615199.0	178.19	178.19
RE DISCCART	454484.5	4615239.5	178.19	178.19
RE DISCCART	454461.1	4615279.9	178.19	178.19
RE DISCCART	454413.6	4615286.6	178.19	178.19
RE DISCCART	454376.8	4615266.9	178.19	178.19
RE DISCCART	454340.0	4615247.2	178.19	178.19
RE DISCCART	454303.1	4615227.5	178.19	178.19
RE DISCCART	454266.3	4615207.8	178.19	178.19
RE DISCCART	454229.5	4615188.1	178.19	178.19
RE DISCCART	454251.0	4615155.9	178.19	178.19
RE DISCCART	454209.3	4615133.3	178.19	178.19
RE DISCCART	454167.7	4615110.7	178.19	178.19
RE DISCCART	454126.1	4615088.0	178.19	178.19
RE DISCCART	452000.0	4612100.0	178.89	225.29
RE DISCCART	452100.0	4612100.0	179.74	225.23
RE DISCCART	452200.0	4612100.0	183.31	183.31
RE DISCCART	452300.0	4612100.0	175.19	186.65
RE DISCCART	452400.0	4612100.0	185.71	185.71
RE DISCCART	452500.0	4612100.0	181.89	181.89
RE DISCCART	452600.0	4612100.0	179.36	179.36
RE DISCCART	452700.0	4612100.0	178.43	178.43
RE DISCCART	452800.0	4612100.0	178.43	178.43
RE DISCCART	452900.0	4612100.0	178.42	178.42
RE DISCCART	453000.0	4612100.0	178.44	178.44
RE DISCCART	453100.0	4612100.0	178.62	178.62
RE DISCCART	453200.0	4612100.0	178.43	178.43
RE DISCCART	453300.0	4612100.0	178.39	178.39
RE DISCCART	453400.0	4612100.0	178.41	178.41
RE DISCCART	453500.0	4612100.0	178.39	178.39
RE DISCCART	453600.0	4612100.0	178.39	178.39
RE DISCCART	453700.0	4612100.0	178.39	178.39
RE DISCCART	453800.0	4612100.0	178.39	178.39
RE DISCCART	453900.0	4612100.0	178.53	178.53
RE DISCCART	454000.0	4612100.0	180.08	180.08
RE DISCCART	454100.0	4612100.0	179.12	179.12
RE DISCCART	454200.0	4612100.0	178.21	178.21
RE DISCCART	454300.0	4612100.0	178.19	178.19
RE DISCCART	454400.0	4612100.0	178.19	178.19
RE DISCCART	454500.0	4612100.0	178.19	178.19
RE DISCCART	454600.0	4612100.0	178.21	178.21
RE DISCCART	454700.0	4612100.0	181.09	181.09
RE DISCCART	454800.0	4612100.0	183.49	183.49
RE DISCCART	454900.0	4612100.0	178.44	178.44

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RE DISCCART	455000.0	4612100.0	178.19	178.19
RE DISCCART	455100.0	4612100.0	178.19	178.19
RE DISCCART	455200.0	4612100.0	178.22	178.22
RE DISCCART	455300.0	4612100.0	177.85	177.85
RE DISCCART	455400.0	4612100.0	177.59	177.59
RE DISCCART	455500.0	4612100.0	177.74	177.74
RE DISCCART	455600.0	4612100.0	178.34	178.34
RE DISCCART	455700.0	4612100.0	177.59	177.59
RE DISCCART	455800.0	4612100.0	177.6	177.6
RE DISCCART	455900.0	4612100.0	177.71	177.71
RE DISCCART	456000.0	4612100.0	178.24	178.24
RE DISCCART	456100.0	4612100.0	177.15	177.15
RE DISCCART	456200.0	4612100.0	177.15	177.15
RE DISCCART	456300.0	4612100.0	177.98	177.98
RE DISCCART	456400.0	4612100.0	178.57	178.57
RE DISCCART	456500.0	4612100.0	178.69	178.69
RE DISCCART	456600.0	4612100.0	178.42	178.42
RE DISCCART	452000.0	4612200.0	179.59	179.59
RE DISCCART	452100.0	4612200.0	180.09	180.09
RE DISCCART	452200.0	4612200.0	179.98	179.98
RE DISCCART	452300.0	4612200.0	175.2	185.77
RE DISCCART	452400.0	4612200.0	175.22	186.65
RE DISCCART	452500.0	4612200.0	178.35	178.35
RE DISCCART	452600.0	4612200.0	178.65	178.65
RE DISCCART	452700.0	4612200.0	178.69	178.69
RE DISCCART	452800.0	4612200.0	178.49	178.49
RE DISCCART	452900.0	4612200.0	178.39	178.39
RE DISCCART	453000.0	4612200.0	178.39	178.39
RE DISCCART	453100.0	4612200.0	178.39	178.39
RE DISCCART	453200.0	4612200.0	178.39	178.39
RE DISCCART	453300.0	4612200.0	178.39	178.39
RE DISCCART	453400.0	4612200.0	178.39	178.39
RE DISCCART	453500.0	4612200.0	178.4	178.4
RE DISCCART	453600.0	4612200.0	178.39	178.39
RE DISCCART	453700.0	4612200.0	178.39	178.39
RE DISCCART	453800.0	4612200.0	178.39	178.39
RE DISCCART	453900.0	4612200.0	178.69	178.69
RE DISCCART	454000.0	4612200.0	179.34	179.34
RE DISCCART	454100.0	4612200.0	179.1	179.1
RE DISCCART	454200.0	4612200.0	178.47	178.47
RE DISCCART	454300.0	4612200.0	178.19	178.19
RE DISCCART	454400.0	4612200.0	178.19	178.19
RE DISCCART	454500.0	4612200.0	178.19	178.19
RE DISCCART	454600.0	4612200.0	182.05	182.05
RE DISCCART	454700.0	4612200.0	183.94	183.94
RE DISCCART	454800.0	4612200.0	184.27	184.27
RE DISCCART	454900.0	4612200.0	180.97	180.97
RE DISCCART	455000.0	4612200.0	178.26	178.26

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RE DISCCART	455100.0	4612200.0	178.19	178.19
RE DISCCART	455200.0	4612200.0	177.87	177.87
RE DISCCART	455300.0	4612200.0	177.7	177.7
RE DISCCART	455400.0	4612200.0	177.59	177.59
RE DISCCART	455500.0	4612200.0	177.59	177.59
RE DISCCART	455600.0	4612200.0	177.59	177.59
RE DISCCART	455700.0	4612200.0	177.59	177.59
RE DISCCART	455800.0	4612200.0	177.59	177.59
RE DISCCART	455900.0	4612200.0	177.59	177.59
RE DISCCART	456000.0	4612200.0	177.59	177.59
RE DISCCART	456100.0	4612200.0	177.12	177.12
RE DISCCART	456200.0	4612200.0	177.38	177.38
RE DISCCART	456300.0	4612200.0	178.25	178.25
RE DISCCART	456400.0	4612200.0	178.12	178.12
RE DISCCART	456500.0	4612200.0	178.36	178.36
RE DISCCART	456600.0	4612200.0	178.45	178.45
RE DISCCART	452000.0	4612300.0	179.2	179.2
RE DISCCART	452100.0	4612300.0	179.09	179.09
RE DISCCART	452200.0	4612300.0	178.7	178.7
RE DISCCART	452300.0	4612300.0	175.19	175.19
RE DISCCART	452400.0	4612300.0	175.19	175.19
RE DISCCART	452500.0	4612300.0	175.98	175.98
RE DISCCART	452600.0	4612300.0	178.29	178.29
RE DISCCART	452700.0	4612300.0	178.63	178.63
RE DISCCART	452800.0	4612300.0	178.65	178.65
RE DISCCART	452900.0	4612300.0	178.42	178.42
RE DISCCART	453000.0	4612300.0	178.39	178.39
RE DISCCART	453100.0	4612300.0	178.39	178.39
RE DISCCART	453200.0	4612300.0	178.39	178.39
RE DISCCART	453300.0	4612300.0	178.39	178.39
RE DISCCART	453400.0	4612300.0	178.55	178.55
RE DISCCART	453500.0	4612300.0	178.49	178.49
RE DISCCART	453600.0	4612300.0	178.39	178.39
RE DISCCART	453700.0	4612300.0	178.39	178.39
RE DISCCART	453800.0	4612300.0	178.68	178.68
RE DISCCART	453900.0	4612300.0	178.86	178.86
RE DISCCART	454000.0	4612300.0	179.04	179.04
RE DISCCART	454100.0	4612300.0	178.92	178.92
RE DISCCART	454200.0	4612300.0	178.38	178.38
RE DISCCART	454300.0	4612300.0	178.19	178.19
RE DISCCART	454400.0	4612300.0	177.9	177.9
RE DISCCART	454500.0	4612300.0	178.19	178.19
RE DISCCART	454600.0	4612300.0	184.17	184.17
RE DISCCART	454700.0	4612300.0	182.35	182.35
RE DISCCART	454800.0	4612300.0	184.24	184.24
RE DISCCART	454900.0	4612300.0	182.36	182.36
RE DISCCART	455000.0	4612300.0	178.21	178.21
RE DISCCART	455100.0	4612300.0	178.19	178.19

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RE DISCCART	455200.0	4612300.0	177.59	177.59
RE DISCCART	455300.0	4612300.0	177.59	177.59
RE DISCCART	455400.0	4612300.0	177.59	177.59
RE DISCCART	455500.0	4612300.0	177.59	177.59
RE DISCCART	455600.0	4612300.0	177.59	177.59
RE DISCCART	455700.0	4612300.0	177.59	177.59
RE DISCCART	455800.0	4612300.0	177.59	177.59
RE DISCCART	455900.0	4612300.0	177.59	177.59
RE DISCCART	456000.0	4612300.0	177.55	177.55
RE DISCCART	456100.0	4612300.0	177.09	177.09
RE DISCCART	456200.0	4612300.0	177.09	177.09
RE DISCCART	456300.0	4612300.0	178.18	178.18
RE DISCCART	456400.0	4612300.0	182.91	182.91
RE DISCCART	456500.0	4612300.0	182.22	182.22
RE DISCCART	456600.0	4612300.0	177.65	177.65
RE DISCCART	452000.0	4612400.0	178.48	178.48
RE DISCCART	452100.0	4612400.0	177.93	177.93
RE DISCCART	452200.0	4612400.0	175.32	175.32
RE DISCCART	452300.0	4612400.0	175.19	175.19
RE DISCCART	452400.0	4612400.0	175.19	175.19
RE DISCCART	452500.0	4612400.0	175.19	175.19
RE DISCCART	452600.0	4612400.0	176.76	178.76
RE DISCCART	452700.0	4612400.0	178.33	178.33
RE DISCCART	452800.0	4612400.0	178.55	178.55
RE DISCCART	452900.0	4612400.0	178.65	178.65
RE DISCCART	453000.0	4612400.0	178.39	178.39
RE DISCCART	453100.0	4612400.0	178.39	178.39
RE DISCCART	453200.0	4612400.0	178.49	178.49
RE DISCCART	453300.0	4612400.0	178.66	178.66
RE DISCCART	453400.0	4612400.0	178.66	178.66
RE DISCCART	453500.0	4612400.0	178.69	178.69
RE DISCCART	453600.0	4612400.0	178.57	178.57
RE DISCCART	453700.0	4612400.0	178.53	178.53
RE DISCCART	453800.0	4612400.0	178.84	178.84
RE DISCCART	453900.0	4612400.0	178.89	178.89
RE DISCCART	454000.0	4612400.0	178.87	178.87
RE DISCCART	454100.0	4612400.0	178.84	178.84
RE DISCCART	454200.0	4612400.0	178.24	178.24
RE DISCCART	454300.0	4612400.0	178.19	178.19
RE DISCCART	454400.0	4612400.0	176.93	176.93
RE DISCCART	454500.0	4612400.0	178.19	178.19
RE DISCCART	454600.0	4612400.0	184.29	184.29
RE DISCCART	454700.0	4612400.0	182.42	182.42
RE DISCCART	454800.0	4612400.0	182.87	182.87
RE DISCCART	454900.0	4612400.0	182.44	182.44
RE DISCCART	455000.0	4612400.0	178.19	178.19
RE DISCCART	455100.0	4612400.0	178.2	178.2
RE DISCCART	455200.0	4612400.0	177.62	177.62

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RE DISCCART	455300.0	4612400.0	177.59	177.59
RE DISCCART	455400.0	4612400.0	177.59	177.59
RE DISCCART	455500.0	4612400.0	177.59	177.59
RE DISCCART	455600.0	4612400.0	177.59	177.59
RE DISCCART	455700.0	4612400.0	177.59	177.59
RE DISCCART	455800.0	4612400.0	178.04	178.04
RE DISCCART	455900.0	4612400.0	177.59	177.59
RE DISCCART	456000.0	4612400.0	177.59	177.59
RE DISCCART	456100.0	4612400.0	177.09	177.09
RE DISCCART	456200.0	4612400.0	177.09	177.09
RE DISCCART	456300.0	4612400.0	177.21	177.21
RE DISCCART	456400.0	4612400.0	179.08	179.08
RE DISCCART	456500.0	4612400.0	177.09	184.88
RE DISCCART	456600.0	4612400.0	177.09	177.09
RE DISCCART	452000.0	4612500.0	175.19	175.19
RE DISCCART	452100.0	4612500.0	175.19	175.19
RE DISCCART	452200.0	4612500.0	175.19	175.19
RE DISCCART	452300.0	4612500.0	175.19	175.19
RE DISCCART	452400.0	4612500.0	175.19	175.19
RE DISCCART	452500.0	4612500.0	175.19	175.19
RE DISCCART	452600.0	4612500.0	175.19	175.19
RE DISCCART	452700.0	4612500.0	175.19	175.19
RE DISCCART	452800.0	4612500.0	176.4	176.4
RE DISCCART	452900.0	4612500.0	178.81	178.81
RE DISCCART	453000.0	4612500.0	178.41	178.41
RE DISCCART	453100.0	4612500.0	178.43	178.43
RE DISCCART	453200.0	4612500.0	178.78	178.78
RE DISCCART	453300.0	4612500.0	178.88	178.88
RE DISCCART	453400.0	4612500.0	178.89	178.89
RE DISCCART	453500.0	4612500.0	178.88	178.88
RE DISCCART	453600.0	4612500.0	178.83	178.83
RE DISCCART	453700.0	4612500.0	178.86	178.86
RE DISCCART	453800.0	4612500.0	178.89	178.89
RE DISCCART	453900.0	4612500.0	178.79	178.79
RE DISCCART	454000.0	4612500.0	179.09	179.09
RE DISCCART	454100.0	4612500.0	179.7	179.7
RE DISCCART	454200.0	4612500.0	178.44	178.44
RE DISCCART	454300.0	4612500.0	178.19	178.19
RE DISCCART	454400.0	4612500.0	177.42	177.42
RE DISCCART	454500.0	4612500.0	178.2	178.2
RE DISCCART	454600.0	4612500.0	184.46	184.46
RE DISCCART	454700.0	4612500.0	182.06	182.06
RE DISCCART	454800.0	4612500.0	183.02	183.02
RE DISCCART	454900.0	4612500.0	182.32	182.32
RE DISCCART	455000.0	4612500.0	178.19	178.19
RE DISCCART	455100.0	4612500.0	178.29	178.29
RE DISCCART	455200.0	4612500.0	177.58	177.58
RE DISCCART	455300.0	4612500.0	178.1	178.1

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RE DISCCART	455400.0	4612500.0	177.59	177.59
RE DISCCART	455500.0	4612500.0	177.59	177.59
RE DISCCART	455600.0	4612500.0	177.59	177.59
RE DISCCART	455700.0	4612500.0	177.59	177.59
RE DISCCART	455800.0	4612500.0	177.62	177.62
RE DISCCART	455900.0	4612500.0	177.59	177.59
RE DISCCART	456000.0	4612500.0	177.59	177.59
RE DISCCART	456100.0	4612500.0	177.09	177.09
RE DISCCART	456200.0	4612500.0	177.09	177.09
RE DISCCART	456300.0	4612500.0	177.23	177.23
RE DISCCART	456400.0	4612500.0	178.44	178.44
RE DISCCART	456500.0	4612500.0	177.09	177.09
RE DISCCART	456600.0	4612500.0	177.09	177.09
RE DISCCART	452000.0	4612600.0	177.13	177.75
RE DISCCART	452100.0	4612600.0	177.92	177.92
RE DISCCART	452200.0	4612600.0	177.98	177.98
RE DISCCART	452300.0	4612600.0	178.16	178.16
RE DISCCART	452400.0	4612600.0	178.18	178.18
RE DISCCART	452500.0	4612600.0	178.22	178.22
RE DISCCART	452600.0	4612600.0	177.25	177.25
RE DISCCART	452700.0	4612600.0	175.19	175.19
RE DISCCART	452800.0	4612600.0	175.19	175.19
RE DISCCART	452900.0	4612600.0	178.65	178.65
RE DISCCART	453000.0	4612600.0	179.49	179.49
RE DISCCART	453100.0	4612600.0	179.28	179.28
RE DISCCART	453200.0	4612600.0	179.18	179.18
RE DISCCART	453300.0	4612600.0	179.19	179.19
RE DISCCART	453400.0	4612600.0	179.08	179.08
RE DISCCART	453500.0	4612600.0	179.09	179.09
RE DISCCART	453600.0	4612600.0	179.	179.
RE DISCCART	453700.0	4612600.0	179.09	179.09
RE DISCCART	453800.0	4612600.0	179.1	179.1
RE DISCCART	453900.0	4612600.0	178.79	178.79
RE DISCCART	454000.0	4612600.0	179.62	179.62
RE DISCCART	454100.0	4612600.0	178.55	178.55
RE DISCCART	454200.0	4612600.0	178.36	178.36
RE DISCCART	454300.0	4612600.0	178.19	178.19
RE DISCCART	454400.0	4612600.0	177.52	177.52
RE DISCCART	454500.0	4612600.0	178.16	178.16
RE DISCCART	454600.0	4612600.0	182.04	182.04
RE DISCCART	454700.0	4612600.0	182.15	193.99
RE DISCCART	454800.0	4612600.0	183.89	193.99
RE DISCCART	454900.0	4612600.0	183.7	183.7
RE DISCCART	455000.0	4612600.0	178.38	178.38
RE DISCCART	455100.0	4612600.0	178.19	178.19
RE DISCCART	455200.0	4612600.0	178.05	178.05
RE DISCCART	455300.0	4612600.0	177.6	177.6
RE DISCCART	455400.0	4612600.0	177.59	177.59

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RE DISCCART	455500.0	4612600.0	177.89	177.89
RE DISCCART	455600.0	4612600.0	178.04	178.04
RE DISCCART	455700.0	4612600.0	177.59	177.59
RE DISCCART	455800.0	4612600.0	177.59	177.59
RE DISCCART	455900.0	4612600.0	177.59	177.59
RE DISCCART	456000.0	4612600.0	177.59	177.59
RE DISCCART	456100.0	4612600.0	177.09	177.09
RE DISCCART	456200.0	4612600.0	177.09	177.09
RE DISCCART	456300.0	4612600.0	177.25	177.25
RE DISCCART	456400.0	4612600.0	177.62	177.62
RE DISCCART	456500.0	4612600.0	177.09	177.09
RE DISCCART	456600.0	4612600.0	177.09	177.09
RE DISCCART	452000.0	4612700.0	178.29	178.29
RE DISCCART	452100.0	4612700.0	178.29	178.29
RE DISCCART	452200.0	4612700.0	178.29	178.29
RE DISCCART	452300.0	4612700.0	178.45	178.45
RE DISCCART	452400.0	4612700.0	178.29	178.29
RE DISCCART	452500.0	4612700.0	178.29	178.29
RE DISCCART	452600.0	4612700.0	178.29	178.29
RE DISCCART	452700.0	4612700.0	178.3	178.3
RE DISCCART	452800.0	4612700.0	175.19	175.19
RE DISCCART	452900.0	4612700.0	175.9	175.9
RE DISCCART	453000.0	4612700.0	179.11	179.11
RE DISCCART	453100.0	4612700.0	179.52	179.52
RE DISCCART	453200.0	4612700.0	179.43	179.43
RE DISCCART	453300.0	4612700.0	179.39	179.39
RE DISCCART	453400.0	4612700.0	179.06	179.06
RE DISCCART	453500.0	4612700.0	178.99	178.99
RE DISCCART	453600.0	4612700.0	179.	179.
RE DISCCART	453700.0	4612700.0	179.26	179.26
RE DISCCART	453800.0	4612700.0	179.35	179.35
RE DISCCART	453900.0	4612700.0	179.43	179.43
RE DISCCART	454000.0	4612700.0	179.34	179.34
RE DISCCART	454100.0	4612700.0	177.85	177.85
RE DISCCART	454200.0	4612700.0	178.41	178.41
RE DISCCART	454300.0	4612700.0	177.68	177.68
RE DISCCART	454400.0	4612700.0	176.14	176.14
RE DISCCART	454500.0	4612700.0	178.19	192.89
RE DISCCART	454600.0	4612700.0	187.71	192.89
RE DISCCART	454700.0	4612700.0	192.76	192.76
RE DISCCART	454800.0	4612700.0	188.65	193.99
RE DISCCART	454900.0	4612700.0	184.34	185.68
RE DISCCART	455000.0	4612700.0	178.37	178.37
RE DISCCART	455100.0	4612700.0	178.19	178.19
RE DISCCART	455200.0	4612700.0	178.36	178.36
RE DISCCART	455300.0	4612700.0	177.63	177.63
RE DISCCART	455400.0	4612700.0	177.59	177.59
RE DISCCART	455500.0	4612700.0	177.59	177.59

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RE DISCCART	455600.0	4612700.0	177.59	177.59
RE DISCCART	455700.0	4612700.0	177.59	177.59
RE DISCCART	455800.0	4612700.0	177.59	177.59
RE DISCCART	455900.0	4612700.0	177.59	177.59
RE DISCCART	456000.0	4612700.0	177.59	177.59
RE DISCCART	456100.0	4612700.0	177.09	177.09
RE DISCCART	456200.0	4612700.0	177.09	177.09
RE DISCCART	456300.0	4612700.0	177.25	177.25
RE DISCCART	456400.0	4612700.0	177.49	177.49
RE DISCCART	456500.0	4612700.0	177.09	177.09
RE DISCCART	456600.0	4612700.0	177.09	177.09
RE DISCCART	452000.0	4612800.0	178.29	178.29
RE DISCCART	452100.0	4612800.0	178.29	178.29
RE DISCCART	452200.0	4612800.0	178.03	178.03
RE DISCCART	452300.0	4612800.0	178.29	178.29
RE DISCCART	452400.0	4612800.0	178.63	178.63
RE DISCCART	452500.0	4612800.0	178.45	178.45
RE DISCCART	452600.0	4612800.0	178.29	178.29
RE DISCCART	452700.0	4612800.0	178.86	178.86
RE DISCCART	452800.0	4612800.0	175.19	178.87
RE DISCCART	452900.0	4612800.0	175.19	175.19
RE DISCCART	453000.0	4612800.0	175.51	178.75
RE DISCCART	453100.0	4612800.0	179.66	179.66
RE DISCCART	453200.0	4612800.0	179.52	179.52
RE DISCCART	453300.0	4612800.0	179.24	179.24
RE DISCCART	453400.0	4612800.0	178.99	178.99
RE DISCCART	453500.0	4612800.0	178.99	178.99
RE DISCCART	453600.0	4612800.0	178.99	178.99
RE DISCCART	453700.0	4612800.0	179.25	179.25
RE DISCCART	453800.0	4612800.0	179.47	179.47
RE DISCCART	453900.0	4612800.0	179.75	179.75
RE DISCCART	454000.0	4612800.0	178.34	178.34
RE DISCCART	454100.0	4612800.0	177.22	177.22
RE DISCCART	454200.0	4612800.0	178.1	178.1
RE DISCCART	454300.0	4612800.0	177.88	177.88
RE DISCCART	454400.0	4612800.0	177.56	177.56
RE DISCCART	454500.0	4612800.0	178.14	178.14
RE DISCCART	454600.0	4612800.0	178.26	193.05
RE DISCCART	454700.0	4612800.0	178.63	193.99
RE DISCCART	454800.0	4612800.0	179.17	193.99
RE DISCCART	454900.0	4612800.0	179.2	179.2
RE DISCCART	455000.0	4612800.0	178.92	178.92
RE DISCCART	455100.0	4612800.0	178.19	178.19
RE DISCCART	455200.0	4612800.0	178.4	178.4
RE DISCCART	455300.0	4612800.0	177.59	177.59
RE DISCCART	455400.0	4612800.0	177.59	177.59
RE DISCCART	455500.0	4612800.0	177.59	177.59
RE DISCCART	455600.0	4612800.0	177.59	177.59

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RE DISCCART	455700.0	4612800.0	177.59	177.59
RE DISCCART	455800.0	4612800.0	177.59	177.59
RE DISCCART	455900.0	4612800.0	177.59	177.59
RE DISCCART	456000.0	4612800.0	177.59	177.59
RE DISCCART	456100.0	4612800.0	177.09	177.09
RE DISCCART	456200.0	4612800.0	177.09	177.09
RE DISCCART	456300.0	4612800.0	177.3	177.3
RE DISCCART	456400.0	4612800.0	177.76	177.76
RE DISCCART	456500.0	4612800.0	177.09	177.09
RE DISCCART	456600.0	4612800.0	177.09	177.09
RE DISCCART	452000.0	4612900.0	178.29	178.29
RE DISCCART	452100.0	4612900.0	178.29	178.29
RE DISCCART	452200.0	4612900.0	176.09	176.09
RE DISCCART	452300.0	4612900.0	177.89	177.89
RE DISCCART	452400.0	4612900.0	178.61	178.61
RE DISCCART	452500.0	4612900.0	178.95	178.95
RE DISCCART	452600.0	4612900.0	179.06	179.06
RE DISCCART	452700.0	4612900.0	179.65	179.65
RE DISCCART	452800.0	4612900.0	179.72	179.72
RE DISCCART	452900.0	4612900.0	175.47	179.73
RE DISCCART	453000.0	4612900.0	178.19	178.94
RE DISCCART	453100.0	4612900.0	175.19	175.19
RE DISCCART	453200.0	4612900.0	175.71	179.62
RE DISCCART	453300.0	4612900.0	179.48	179.48
RE DISCCART	453400.0	4612900.0	178.99	178.99
RE DISCCART	453500.0	4612900.0	178.99	178.99
RE DISCCART	453600.0	4612900.0	178.99	178.99
RE DISCCART	453700.0	4612900.0	179.22	179.22
RE DISCCART	453800.0	4612900.0	179.59	179.59
RE DISCCART	453900.0	4612900.0	178.72	178.72
RE DISCCART	454000.0	4612900.0	178.21	178.21
RE DISCCART	454100.0	4612900.0	177.14	177.14
RE DISCCART	454200.0	4612900.0	178.23	178.23
RE DISCCART	454300.0	4612900.0	178.19	178.19
RE DISCCART	454400.0	4612900.0	178.31	178.31
RE DISCCART	454500.0	4612900.0	178.21	178.21
RE DISCCART	454600.0	4612900.0	178.34	178.34
RE DISCCART	454700.0	4612900.0	179.22	179.22
RE DISCCART	454800.0	4612900.0	180.02	180.02
RE DISCCART	454900.0	4612900.0	180.38	180.38
RE DISCCART	455000.0	4612900.0	180.38	180.38
RE DISCCART	455100.0	4612900.0	178.19	178.19
RE DISCCART	455200.0	4612900.0	178.21	178.21
RE DISCCART	455300.0	4612900.0	177.59	177.59
RE DISCCART	455400.0	4612900.0	177.59	177.59
RE DISCCART	455500.0	4612900.0	177.59	177.59
RE DISCCART	455600.0	4612900.0	177.59	177.59
RE DISCCART	455700.0	4612900.0	177.59	177.59

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RE DISCCART	455800.0	4612900.0	177.59	177.59
RE DISCCART	455900.0	4612900.0	177.86	177.86
RE DISCCART	456000.0	4612900.0	177.59	177.59
RE DISCCART	456100.0	4612900.0	177.09	177.09
RE DISCCART	456200.0	4612900.0	177.09	177.09
RE DISCCART	456300.0	4612900.0	177.22	177.22
RE DISCCART	456400.0	4612900.0	177.09	177.09
RE DISCCART	456500.0	4612900.0	177.09	177.09
RE DISCCART	456600.0	4612900.0	177.09	177.09
RE DISCCART	452000.0	4613000.0	178.29	178.29
RE DISCCART	452100.0	4613000.0	178.29	178.29
RE DISCCART	452200.0	4613000.0	176.09	176.09
RE DISCCART	452300.0	4613000.0	177.92	177.92
RE DISCCART	452400.0	4613000.0	178.88	178.88
RE DISCCART	452500.0	4613000.0	179.22	179.22
RE DISCCART	452600.0	4613000.0	179.66	179.66
RE DISCCART	452700.0	4613000.0	179.69	179.69
RE DISCCART	452800.0	4613000.0	179.69	179.69
RE DISCCART	452900.0	4613000.0	179.69	179.69
RE DISCCART	453000.0	4613000.0	178.45	178.45
RE DISCCART	453100.0	4613000.0	176.93	176.93
RE DISCCART	453200.0	4613000.0	175.19	175.19
RE DISCCART	453300.0	4613000.0	176.43	179.6
RE DISCCART	453400.0	4613000.0	179.04	179.04
RE DISCCART	453500.0	4613000.0	178.99	178.99
RE DISCCART	453600.0	4613000.0	178.99	178.99
RE DISCCART	453700.0	4613000.0	179.33	179.33
RE DISCCART	453800.0	4613000.0	179.76	179.76
RE DISCCART	453900.0	4613000.0	178.57	178.57
RE DISCCART	454000.0	4613000.0	178.35	178.35
RE DISCCART	454100.0	4613000.0	177.29	177.29
RE DISCCART	454200.0	4613000.0	178.21	178.21
RE DISCCART	454300.0	4613000.0	178.37	178.37
RE DISCCART	454400.0	4613000.0	178.77	178.77
RE DISCCART	454500.0	4613000.0	178.2	178.2
RE DISCCART	454600.0	4613000.0	178.31	178.31
RE DISCCART	454700.0	4613000.0	179.07	179.07
RE DISCCART	454800.0	4613000.0	179.61	179.61
RE DISCCART	454900.0	4613000.0	179.86	179.86
RE DISCCART	455000.0	4613000.0	180.28	180.28
RE DISCCART	455100.0	4613000.0	178.19	178.19
RE DISCCART	455200.0	4613000.0	178.19	178.19
RE DISCCART	455300.0	4613000.0	178.45	178.45
RE DISCCART	455400.0	4613000.0	177.59	177.59
RE DISCCART	455500.0	4613000.0	177.59	177.59
RE DISCCART	455600.0	4613000.0	177.59	177.59
RE DISCCART	455700.0	4613000.0	177.59	177.59
RE DISCCART	455800.0	4613000.0	177.59	177.59

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RE DISCCART	455900.0	4613000.0	179.1	179.1
RE DISCCART	456000.0	4613000.0	177.59	177.59
RE DISCCART	456100.0	4613000.0	177.09	177.09
RE DISCCART	456200.0	4613000.0	177.09	177.09
RE DISCCART	456300.0	4613000.0	177.65	177.65
RE DISCCART	456400.0	4613000.0	177.83	177.83
RE DISCCART	456500.0	4613000.0	177.91	177.91
RE DISCCART	456600.0	4613000.0	177.9	177.9
RE DISCCART	452000.0	4613100.0	178.29	178.29
RE DISCCART	452100.0	4613100.0	178.29	178.29
RE DISCCART	452200.0	4613100.0	176.09	176.09
RE DISCCART	452300.0	4613100.0	178.55	178.55
RE DISCCART	452400.0	4613100.0	179.71	179.71
RE DISCCART	452500.0	4613100.0	179.47	179.47
RE DISCCART	452600.0	4613100.0	179.69	179.69
RE DISCCART	452700.0	4613100.0	179.69	179.69
RE DISCCART	452800.0	4613100.0	179.69	179.69
RE DISCCART	452900.0	4613100.0	179.66	179.66
RE DISCCART	453000.0	4613100.0	178.53	178.53
RE DISCCART	453100.0	4613100.0	179.09	179.09
RE DISCCART	453200.0	4613100.0	177.43	177.43
RE DISCCART	453300.0	4613100.0	175.19	175.19
RE DISCCART	453400.0	4613100.0	178.89	183.39
RE DISCCART	453500.0	4613100.0	178.99	178.99
RE DISCCART	453600.0	4613100.0	179.21	179.21
RE DISCCART	453700.0	4613100.0	179.55	179.55
RE DISCCART	453800.0	4613100.0	179.59	179.59
RE DISCCART	453900.0	4613100.0	178.96	178.96
RE DISCCART	454000.0	4613100.0	178.29	178.29
RE DISCCART	454100.0	4613100.0	178.57	178.57
RE DISCCART	454200.0	4613100.0	178.19	178.19
RE DISCCART	454300.0	4613100.0	178.24	189.25
RE DISCCART	454400.0	4613100.0	178.75	178.75
RE DISCCART	454500.0	4613100.0	178.2	178.2
RE DISCCART	454600.0	4613100.0	178.3	178.3
RE DISCCART	454700.0	4613100.0	178.96	178.96
RE DISCCART	454800.0	4613100.0	179.34	179.34
RE DISCCART	454900.0	4613100.0	179.71	179.71
RE DISCCART	455000.0	4613100.0	179.65	179.65
RE DISCCART	455100.0	4613100.0	178.19	178.19
RE DISCCART	455200.0	4613100.0	178.27	178.27
RE DISCCART	455300.0	4613100.0	178.46	178.46
RE DISCCART	455400.0	4613100.0	177.59	177.59
RE DISCCART	455500.0	4613100.0	177.59	177.59
RE DISCCART	455600.0	4613100.0	177.59	177.59
RE DISCCART	455700.0	4613100.0	179.44	179.44
RE DISCCART	455800.0	4613100.0	177.65	177.65
RE DISCCART	455900.0	4613100.0	177.64	177.64

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RE DISCCART	456000.0	4613100.0	177.59	177.59
RE DISCCART	456100.0	4613100.0	177.09	177.09
RE DISCCART	456200.0	4613100.0	177.09	177.09
RE DISCCART	456300.0	4613100.0	177.42	177.42
RE DISCCART	456400.0	4613100.0	177.09	177.09
RE DISCCART	456500.0	4613100.0	177.09	177.09
RE DISCCART	456600.0	4613100.0	177.09	177.09
RE DISCCART	452000.0	4613200.0	178.29	178.29
RE DISCCART	452100.0	4613200.0	178.29	178.29
RE DISCCART	452200.0	4613200.0	176.09	176.09
RE DISCCART	452300.0	4613200.0	178.5	178.5
RE DISCCART	452400.0	4613200.0	179.43	179.43
RE DISCCART	452500.0	4613200.0	179.7	179.7
RE DISCCART	452600.0	4613200.0	179.69	179.69
RE DISCCART	452700.0	4613200.0	179.69	179.69
RE DISCCART	452800.0	4613200.0	179.7	179.7
RE DISCCART	452900.0	4613200.0	179.23	179.23
RE DISCCART	453000.0	4613200.0	178.52	178.52
RE DISCCART	453100.0	4613200.0	179.09	179.09
RE DISCCART	453200.0	4613200.0	179.09	179.09
RE DISCCART	453300.0	4613200.0	177.61	179.09
RE DISCCART	453400.0	4613200.0	175.19	183.84
RE DISCCART	453500.0	4613200.0	175.31	183.84
RE DISCCART	453600.0	4613200.0	179.52	179.52
RE DISCCART	453700.0	4613200.0	178.94	178.94
RE DISCCART	453800.0	4613200.0	179.31	179.31
RE DISCCART	453900.0	4613200.0	178.82	178.82
RE DISCCART	454000.0	4613200.0	178.28	178.28
RE DISCCART	454100.0	4613200.0	179.66	179.66
RE DISCCART	454200.0	4613200.0	178.19	191.48
RE DISCCART	454300.0	4613200.0	186.33	191.48
RE DISCCART	454400.0	4613200.0	183.86	183.86
RE DISCCART	454500.0	4613200.0	178.41	178.41
RE DISCCART	454600.0	4613200.0	178.24	178.24
RE DISCCART	454700.0	4613200.0	179.33	179.33
RE DISCCART	454800.0	4613200.0	180.56	180.56
RE DISCCART	454900.0	4613200.0	179.49	179.49
RE DISCCART	455000.0	4613200.0	178.61	178.61
RE DISCCART	455100.0	4613200.0	178.2	178.2
RE DISCCART	455200.0	4613200.0	178.3	178.3
RE DISCCART	455300.0	4613200.0	178.58	178.58
RE DISCCART	455400.0	4613200.0	178.14	178.14
RE DISCCART	455500.0	4613200.0	177.59	177.59
RE DISCCART	455600.0	4613200.0	177.59	177.59
RE DISCCART	455700.0	4613200.0	177.59	177.59
RE DISCCART	455800.0	4613200.0	177.59	177.59
RE DISCCART	455900.0	4613200.0	177.59	177.59
RE DISCCART	456000.0	4613200.0	178.33	178.33

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RE DISCCART	456100.0	4613200.0	177.09	177.09
RE DISCCART	456200.0	4613200.0	177.09	177.09
RE DISCCART	456300.0	4613200.0	177.4	177.4
RE DISCCART	456400.0	4613200.0	177.09	177.09
RE DISCCART	456500.0	4613200.0	177.09	177.09
RE DISCCART	456600.0	4613200.0	177.09	177.09
RE DISCCART	452000.0	4613300.0	178.29	178.29
RE DISCCART	452100.0	4613300.0	178.29	178.29
RE DISCCART	452200.0	4613300.0	176.09	176.09
RE DISCCART	452300.0	4613300.0	178.57	178.57
RE DISCCART	452400.0	4613300.0	179.64	179.64
RE DISCCART	452500.0	4613300.0	179.72	179.72
RE DISCCART	452600.0	4613300.0	179.69	179.69
RE DISCCART	452700.0	4613300.0	179.68	179.68
RE DISCCART	452800.0	4613300.0	179.37	179.37
RE DISCCART	452900.0	4613300.0	178.92	178.92
RE DISCCART	453000.0	4613300.0	179.63	179.63
RE DISCCART	453100.0	4613300.0	179.09	179.09
RE DISCCART	453200.0	4613300.0	179.09	179.09
RE DISCCART	453300.0	4613300.0	179.09	179.09
RE DISCCART	453400.0	4613300.0	180.54	180.54
RE DISCCART	453500.0	4613300.0	176.44	182.98
RE DISCCART	453600.0	4613300.0	175.19	175.19
RE DISCCART	453700.0	4613300.0	178.89	178.89
RE DISCCART	453800.0	4613300.0	178.51	178.51
RE DISCCART	453900.0	4613300.0	178.67	178.67
RE DISCCART	454000.0	4613300.0	178.17	178.17
RE DISCCART	454100.0	4613300.0	178.61	178.61
RE DISCCART	454200.0	4613300.0	178.19	191.67
RE DISCCART	454300.0	4613300.0	191.01	191.01
RE DISCCART	454400.0	4613300.0	185.06	191.11
RE DISCCART	454500.0	4613300.0	178.57	178.57
RE DISCCART	454600.0	4613300.0	178.21	178.21
RE DISCCART	454700.0	4613300.0	179.35	179.35
RE DISCCART	454800.0	4613300.0	179.96	179.96
RE DISCCART	454900.0	4613300.0	178.57	178.57
RE DISCCART	455000.0	4613300.0	178.19	178.19
RE DISCCART	455100.0	4613300.0	178.19	178.19
RE DISCCART	455200.0	4613300.0	178.4	178.4
RE DISCCART	455300.0	4613300.0	178.62	178.62
RE DISCCART	455400.0	4613300.0	179.12	179.12
RE DISCCART	455500.0	4613300.0	177.59	177.59
RE DISCCART	455600.0	4613300.0	177.59	177.59
RE DISCCART	455700.0	4613300.0	177.59	177.59
RE DISCCART	455800.0	4613300.0	177.59	177.59
RE DISCCART	455900.0	4613300.0	177.59	177.59
RE DISCCART	456000.0	4613300.0	178.25	178.25
RE DISCCART	456100.0	4613300.0	177.09	177.09

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RE DISCCART	456200.0	4613300.0	177.09	177.09
RE DISCCART	456300.0	4613300.0	177.42	177.42
RE DISCCART	456400.0	4613300.0	177.09	177.09
RE DISCCART	456500.0	4613300.0	177.09	177.09
RE DISCCART	456600.0	4613300.0	177.09	181.45
RE DISCCART	452000.0	4613400.0	178.43	178.43
RE DISCCART	452100.0	4613400.0	178.29	178.29
RE DISCCART	452200.0	4613400.0	176.09	176.09
RE DISCCART	452300.0	4613400.0	178.61	178.61
RE DISCCART	452400.0	4613400.0	179.8	179.8
RE DISCCART	452500.0	4613400.0	179.79	179.79
RE DISCCART	452600.0	4613400.0	179.88	179.88
RE DISCCART	452700.0	4613400.0	179.69	179.69
RE DISCCART	452800.0	4613400.0	179.29	179.29
RE DISCCART	452900.0	4613400.0	179.31	179.31
RE DISCCART	453000.0	4613400.0	179.69	179.69
RE DISCCART	453100.0	4613400.0	179.41	179.41
RE DISCCART	453200.0	4613400.0	179.25	179.25
RE DISCCART	453300.0	4613400.0	179.22	179.22
RE DISCCART	453400.0	4613400.0	178.6	178.6
RE DISCCART	453500.0	4613400.0	178.32	178.32
RE DISCCART	453600.0	4613400.0	175.42	175.42
RE DISCCART	453700.0	4613400.0	175.19	175.19
RE DISCCART	453800.0	4613400.0	178.12	178.12
RE DISCCART	453900.0	4613400.0	178.19	178.19
RE DISCCART	454000.0	4613400.0	178.2	178.2
RE DISCCART	454100.0	4613400.0	178.27	178.27
RE DISCCART	454200.0	4613400.0	178.19	190.94
RE DISCCART	454300.0	4613400.0	183.33	191.37
RE DISCCART	454400.0	4613400.0	186.85	188.57
RE DISCCART	454500.0	4613400.0	178.75	189.85
RE DISCCART	454600.0	4613400.0	178.19	178.19
RE DISCCART	454700.0	4613400.0	178.19	178.19
RE DISCCART	454800.0	4613400.0	178.19	178.19
RE DISCCART	454900.0	4613400.0	178.19	178.19
RE DISCCART	455000.0	4613400.0	178.19	178.19
RE DISCCART	455100.0	4613400.0	178.19	178.19
RE DISCCART	455200.0	4613400.0	178.33	178.33
RE DISCCART	455300.0	4613400.0	178.84	178.84
RE DISCCART	455400.0	4613400.0	179.24	179.24
RE DISCCART	455500.0	4613400.0	177.59	177.59
RE DISCCART	455600.0	4613400.0	177.59	177.59
RE DISCCART	455700.0	4613400.0	177.59	177.59
RE DISCCART	455800.0	4613400.0	177.59	177.59
RE DISCCART	455900.0	4613400.0	177.59	177.59
RE DISCCART	456000.0	4613400.0	177.59	177.59
RE DISCCART	456100.0	4613400.0	177.12	177.12
RE DISCCART	456200.0	4613400.0	177.09	177.09

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RE DISCCART	456300.0	4613400.0	177.53	177.53
RE DISCCART	456400.0	4613400.0	177.09	177.09
RE DISCCART	456500.0	4613400.0	177.09	177.09
RE DISCCART	456600.0	4613400.0	179.72	181.72
RE DISCCART	452000.0	4613500.0	178.76	178.76
RE DISCCART	452100.0	4613500.0	178.29	178.29
RE DISCCART	452200.0	4613500.0	176.09	176.09
RE DISCCART	452300.0	4613500.0	178.51	178.51
RE DISCCART	452400.0	4613500.0	179.41	179.41
RE DISCCART	452500.0	4613500.0	179.7	179.7
RE DISCCART	452600.0	4613500.0	179.69	179.69
RE DISCCART	452700.0	4613500.0	179.61	179.61
RE DISCCART	452800.0	4613500.0	179.67	179.67
RE DISCCART	452900.0	4613500.0	179.68	179.68
RE DISCCART	453000.0	4613500.0	179.7	179.7
RE DISCCART	453100.0	4613500.0	179.39	179.39
RE DISCCART	453200.0	4613500.0	179.12	179.12
RE DISCCART	453300.0	4613500.0	178.77	178.77
RE DISCCART	453400.0	4613500.0	178.48	178.48
RE DISCCART	453500.0	4613500.0	178.29	178.29
RE DISCCART	453600.0	4613500.0	178.58	178.58
RE DISCCART	453700.0	4613500.0	176.66	178.79
RE DISCCART	453800.0	4613500.0	175.19	175.19
RE DISCCART	453900.0	4613500.0	175.19	179.57
RE DISCCART	454000.0	4613500.0	178.74	178.74
RE DISCCART	454100.0	4613500.0	178.19	178.19
RE DISCCART	454200.0	4613500.0	178.19	178.19
RE DISCCART	454300.0	4613500.0	179.63	190.05
RE DISCCART	454400.0	4613500.0	179.7	190.05
RE DISCCART	454500.0	4613500.0	178.75	189.85
RE DISCCART	454600.0	4613500.0	178.19	178.19
RE DISCCART	454700.0	4613500.0	178.19	178.19
RE DISCCART	454800.0	4613500.0	178.19	178.19
RE DISCCART	454900.0	4613500.0	178.19	178.19
RE DISCCART	455000.0	4613500.0	178.19	178.19
RE DISCCART	455100.0	4613500.0	178.19	178.19
RE DISCCART	455200.0	4613500.0	178.19	178.19
RE DISCCART	455300.0	4613500.0	178.7	178.7
RE DISCCART	455400.0	4613500.0	179.15	179.15
RE DISCCART	455500.0	4613500.0	177.59	177.59
RE DISCCART	455600.0	4613500.0	177.59	177.59
RE DISCCART	455700.0	4613500.0	177.59	177.59
RE DISCCART	455800.0	4613500.0	177.59	177.59
RE DISCCART	455900.0	4613500.0	177.59	177.59
RE DISCCART	456000.0	4613500.0	177.59	177.59
RE DISCCART	456100.0	4613500.0	177.27	177.27
RE DISCCART	456200.0	4613500.0	177.09	177.09
RE DISCCART	456300.0	4613500.0	177.21	177.21

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RE DISCCART	456400.0	4613500.0	177.09	177.09
RE DISCCART	456500.0	4613500.0	177.09	177.09
RE DISCCART	456600.0	4613500.0	182.03	182.03
RE DISCCART	452000.0	4613600.0	179.18	179.18
RE DISCCART	452100.0	4613600.0	178.34	178.34
RE DISCCART	452200.0	4613600.0	176.09	176.09
RE DISCCART	452300.0	4613600.0	176.35	176.35
RE DISCCART	452400.0	4613600.0	179.65	179.65
RE DISCCART	452500.0	4613600.0	179.75	179.75
RE DISCCART	452600.0	4613600.0	179.66	179.66
RE DISCCART	452700.0	4613600.0	179.94	179.94
RE DISCCART	452800.0	4613600.0	179.84	179.84
RE DISCCART	452900.0	4613600.0	179.69	179.69
RE DISCCART	453000.0	4613600.0	179.93	179.93
RE DISCCART	453100.0	4613600.0	179.42	179.42
RE DISCCART	453200.0	4613600.0	178.51	178.51
RE DISCCART	453300.0	4613600.0	178.49	178.49
RE DISCCART	453400.0	4613600.0	178.56	178.56
RE DISCCART	453500.0	4613600.0	178.29	178.29
RE DISCCART	453600.0	4613600.0	178.72	178.72
RE DISCCART	453700.0	4613600.0	178.61	178.61
RE DISCCART	453800.0	4613600.0	178.4	178.4
RE DISCCART	453900.0	4613600.0	175.19	175.19
RE DISCCART	454000.0	4613600.0	175.19	175.19
RE DISCCART	454100.0	4613600.0	178.19	178.19
RE DISCCART	454200.0	4613600.0	178.19	178.19
RE DISCCART	454300.0	4613600.0	178.34	178.34
RE DISCCART	454400.0	4613600.0	178.64	178.64
RE DISCCART	454500.0	4613600.0	178.2	178.2
RE DISCCART	454600.0	4613600.0	178.19	178.19
RE DISCCART	454700.0	4613600.0	178.19	178.19
RE DISCCART	454800.0	4613600.0	178.19	178.19
RE DISCCART	454900.0	4613600.0	178.19	178.19
RE DISCCART	455000.0	4613600.0	178.19	178.19
RE DISCCART	455100.0	4613600.0	178.19	178.19
RE DISCCART	455200.0	4613600.0	178.19	178.19
RE DISCCART	455300.0	4613600.0	178.39	178.39
RE DISCCART	455400.0	4613600.0	178.92	178.92
RE DISCCART	455500.0	4613600.0	179.5	179.5
RE DISCCART	455600.0	4613600.0	177.66	177.66
RE DISCCART	455700.0	4613600.0	177.59	177.59
RE DISCCART	455800.0	4613600.0	177.59	177.59
RE DISCCART	455900.0	4613600.0	177.59	177.59
RE DISCCART	456000.0	4613600.0	177.59	177.59
RE DISCCART	456100.0	4613600.0	177.12	177.12
RE DISCCART	456200.0	4613600.0	177.09	177.09
RE DISCCART	456300.0	4613600.0	177.1	177.1
RE DISCCART	456400.0	4613600.0	177.09	177.09

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RE DISCCART	456500.0	4613600.0	177.09	177.09
RE DISCCART	456600.0	4613600.0	179.31	182.02
RE DISCCART	452000.0	4613700.0	179.31	179.31
RE DISCCART	452100.0	4613700.0	179.45	179.45
RE DISCCART	452200.0	4613700.0	178.21	196.21
RE DISCCART	452300.0	4613700.0	178.54	195.02
RE DISCCART	452400.0	4613700.0	178.65	178.65
RE DISCCART	452500.0	4613700.0	179.75	179.75
RE DISCCART	452600.0	4613700.0	179.84	179.84
RE DISCCART	452700.0	4613700.0	180.18	180.18
RE DISCCART	452800.0	4613700.0	180.26	180.26
RE DISCCART	452900.0	4613700.0	180.07	180.07
RE DISCCART	453000.0	4613700.0	179.98	179.98
RE DISCCART	453100.0	4613700.0	179.36	179.36
RE DISCCART	453200.0	4613700.0	179.64	179.64
RE DISCCART	453300.0	4613700.0	179.68	179.68
RE DISCCART	453400.0	4613700.0	179.7	179.7
RE DISCCART	453500.0	4613700.0	179.03	179.03
RE DISCCART	453600.0	4613700.0	179.03	179.03
RE DISCCART	453700.0	4613700.0	178.77	178.77
RE DISCCART	453800.0	4613700.0	179.75	179.75
RE DISCCART	453900.0	4613700.0	178.59	178.59
RE DISCCART	454000.0	4613700.0	175.19	175.19
RE DISCCART	454100.0	4613700.0	178.19	178.19
RE DISCCART	454200.0	4613700.0	178.19	178.19
RE DISCCART	454300.0	4613700.0	178.19	178.19
RE DISCCART	454400.0	4613700.0	178.19	178.19
RE DISCCART	454500.0	4613700.0	178.19	178.19
RE DISCCART	454600.0	4613700.0	178.19	178.19
RE DISCCART	454700.0	4613700.0	178.19	178.19
RE DISCCART	454800.0	4613700.0	178.19	178.19
RE DISCCART	454900.0	4613700.0	178.19	178.19
RE DISCCART	455000.0	4613700.0	178.19	178.19
RE DISCCART	455100.0	4613700.0	178.19	178.19
RE DISCCART	455200.0	4613700.0	178.19	178.19
RE DISCCART	455300.0	4613700.0	178.19	178.19
RE DISCCART	455400.0	4613700.0	178.44	178.44
RE DISCCART	455500.0	4613700.0	178.92	178.92
RE DISCCART	455600.0	4613700.0	179.76	179.76
RE DISCCART	455700.0	4613700.0	177.59	177.59
RE DISCCART	455800.0	4613700.0	177.59	177.59
RE DISCCART	455900.0	4613700.0	177.59	177.59
RE DISCCART	456000.0	4613700.0	177.59	177.59
RE DISCCART	456100.0	4613700.0	177.13	177.13
RE DISCCART	456200.0	4613700.0	177.47	177.47
RE DISCCART	456300.0	4613700.0	178.48	178.48
RE DISCCART	456400.0	4613700.0	178.39	178.39
RE DISCCART	456500.0	4613700.0	177.26	177.26

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RE DISCCART	456600.0	4613700.0	178.33	178.33
RE DISCCART	452000.0	4613800.0	179.24	179.24
RE DISCCART	452100.0	4613800.0	179.59	197.62
RE DISCCART	452200.0	4613800.0	192.68	193.46
RE DISCCART	452300.0	4613800.0	182.29	197.62
RE DISCCART	452400.0	4613800.0	178.75	196.34
RE DISCCART	452500.0	4613800.0	179.83	179.83
RE DISCCART	452600.0	4613800.0	180.3	180.3
RE DISCCART	452700.0	4613800.0	180.72	180.72
RE DISCCART	452800.0	4613800.0	180.77	180.77
RE DISCCART	452900.0	4613800.0	180.42	180.42
RE DISCCART	453000.0	4613800.0	180.01	180.01
RE DISCCART	453100.0	4613800.0	179.43	179.43
RE DISCCART	453200.0	4613800.0	179.38	179.38
RE DISCCART	453300.0	4613800.0	179.37	179.37
RE DISCCART	453400.0	4613800.0	178.75	178.75
RE DISCCART	453500.0	4613800.0	179.08	179.08
RE DISCCART	453600.0	4613800.0	179.26	179.26
RE DISCCART	453700.0	4613800.0	179.01	179.01
RE DISCCART	453800.0	4613800.0	179.73	179.73
RE DISCCART	453900.0	4613800.0	180.57	180.57
RE DISCCART	454000.0	4613800.0	175.19	180.07
RE DISCCART	454100.0	4613800.0	175.19	179.63
RE DISCCART	454200.0	4613800.0	177.78	177.78
RE DISCCART	454300.0	4613800.0	178.19	178.19
RE DISCCART	454400.0	4613800.0	178.19	178.19
RE DISCCART	454500.0	4613800.0	178.19	178.19
RE DISCCART	454600.0	4613800.0	178.19	178.19
RE DISCCART	454700.0	4613800.0	178.19	178.19
RE DISCCART	454800.0	4613800.0	178.19	178.19
RE DISCCART	454900.0	4613800.0	178.19	178.19
RE DISCCART	455000.0	4613800.0	178.19	178.19
RE DISCCART	455100.0	4613800.0	178.19	178.19
RE DISCCART	455200.0	4613800.0	178.19	178.19
RE DISCCART	455300.0	4613800.0	178.19	178.19
RE DISCCART	455400.0	4613800.0	178.19	178.19
RE DISCCART	455500.0	4613800.0	178.75	178.75
RE DISCCART	455600.0	4613800.0	180.1	180.1
RE DISCCART	455700.0	4613800.0	178.83	180.77
RE DISCCART	455800.0	4613800.0	179.49	181.08
RE DISCCART	455900.0	4613800.0	179.64	181.13
RE DISCCART	456000.0	4613800.0	178.72	178.72
RE DISCCART	456100.0	4613800.0	177.15	177.15
RE DISCCART	456200.0	4613800.0	178.34	178.34
RE DISCCART	456300.0	4613800.0	178.72	178.72
RE DISCCART	456400.0	4613800.0	177.97	177.97
RE DISCCART	456500.0	4613800.0	177.89	181.4
RE DISCCART	456600.0	4613800.0	178.99	178.99

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RE DISCCART	452000.0	4613900.0	179.25	179.25
RE DISCCART	452100.0	4613900.0	179.59	198.85
RE DISCCART	452200.0	4613900.0	196.69	196.69
RE DISCCART	452300.0	4613900.0	191.98	196.34
RE DISCCART	452400.0	4613900.0	179.12	198.85
RE DISCCART	452500.0	4613900.0	179.92	179.92
RE DISCCART	452600.0	4613900.0	180.6	180.6
RE DISCCART	452700.0	4613900.0	183.05	183.05
RE DISCCART	452800.0	4613900.0	181.06	181.06
RE DISCCART	452900.0	4613900.0	180.64	180.64
RE DISCCART	453000.0	4613900.0	179.97	179.97
RE DISCCART	453100.0	4613900.0	178.84	178.84
RE DISCCART	453200.0	4613900.0	179.13	179.13
RE DISCCART	453300.0	4613900.0	179.09	179.09
RE DISCCART	453400.0	4613900.0	178.54	178.54
RE DISCCART	453500.0	4613900.0	179.84	179.84
RE DISCCART	453600.0	4613900.0	179.39	179.39
RE DISCCART	453700.0	4613900.0	179.23	179.23
RE DISCCART	453800.0	4613900.0	179.7	179.7
RE DISCCART	453900.0	4613900.0	179.51	179.51
RE DISCCART	454000.0	4613900.0	175.19	179.27
RE DISCCART	454100.0	4613900.0	175.19	175.19
RE DISCCART	454200.0	4613900.0	175.19	175.19
RE DISCCART	454300.0	4613900.0	178.19	178.19
RE DISCCART	454400.0	4613900.0	178.19	178.19
RE DISCCART	454500.0	4613900.0	178.19	178.19
RE DISCCART	454600.0	4613900.0	178.19	178.19
RE DISCCART	454700.0	4613900.0	178.19	178.19
RE DISCCART	454800.0	4613900.0	178.19	178.19
RE DISCCART	454900.0	4613900.0	178.19	178.19
RE DISCCART	455000.0	4613900.0	178.19	178.19
RE DISCCART	455100.0	4613900.0	178.19	178.19
RE DISCCART	455200.0	4613900.0	178.19	178.19
RE DISCCART	455300.0	4613900.0	178.19	178.19
RE DISCCART	455400.0	4613900.0	178.2	178.2
RE DISCCART	455500.0	4613900.0	178.38	178.38
RE DISCCART	455600.0	4613900.0	179.68	179.68
RE DISCCART	455700.0	4613900.0	181.27	181.27
RE DISCCART	455800.0	4613900.0	181.27	181.27
RE DISCCART	455900.0	4613900.0	181.27	181.27
RE DISCCART	456000.0	4613900.0	181.27	181.27
RE DISCCART	456100.0	4613900.0	180.2	180.2
RE DISCCART	456200.0	4613900.0	178.78	178.78
RE DISCCART	456300.0	4613900.0	178.37	178.37
RE DISCCART	456400.0	4613900.0	177.99	177.99
RE DISCCART	456500.0	4613900.0	181.15	181.15
RE DISCCART	456600.0	4613900.0	178.66	178.66
RE DISCCART	452000.0	4614000.0	179.2	179.2

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RE DISCCART	452100.0	4614000.0	179.63	198.85
RE DISCCART	452200.0	4614000.0	196.94	196.94
RE DISCCART	452300.0	4614000.0	194.23	198.85
RE DISCCART	452400.0	4614000.0	179.09	198.85
RE DISCCART	452500.0	4614000.0	180.1	180.1
RE DISCCART	452600.0	4614000.0	180.84	180.84
RE DISCCART	452700.0	4614000.0	182.49	182.49
RE DISCCART	452800.0	4614000.0	181.47	181.47
RE DISCCART	452900.0	4614000.0	180.99	180.99
RE DISCCART	453000.0	4614000.0	180.16	180.16
RE DISCCART	453100.0	4614000.0	178.4	178.4
RE DISCCART	453200.0	4614000.0	179.05	179.05
RE DISCCART	453300.0	4614000.0	178.92	178.92
RE DISCCART	453400.0	4614000.0	178.47	178.47
RE DISCCART	453500.0	4614000.0	179.84	179.84
RE DISCCART	453600.0	4614000.0	179.44	179.44
RE DISCCART	453700.0	4614000.0	179.24	179.24
RE DISCCART	453800.0	4614000.0	179.72	179.72
RE DISCCART	453900.0	4614000.0	179.09	179.09
RE DISCCART	454000.0	4614000.0	175.29	179.09
RE DISCCART	454100.0	4614000.0	175.33	175.33
RE DISCCART	454200.0	4614000.0	178.28	178.28
RE DISCCART	454300.0	4614000.0	178.19	178.19
RE DISCCART	454400.0	4614000.0	178.19	178.19
RE DISCCART	454500.0	4614000.0	178.19	178.19
RE DISCCART	454600.0	4614000.0	178.19	178.19
RE DISCCART	454700.0	4614000.0	178.19	178.19
RE DISCCART	454800.0	4614000.0	178.19	178.19
RE DISCCART	454900.0	4614000.0	178.19	178.19
RE DISCCART	455000.0	4614000.0	178.19	178.19
RE DISCCART	455100.0	4614000.0	178.19	178.19
RE DISCCART	455200.0	4614000.0	178.19	178.19
RE DISCCART	455300.0	4614000.0	178.19	178.19
RE DISCCART	455400.0	4614000.0	178.19	178.19
RE DISCCART	455500.0	4614000.0	178.89	178.89
RE DISCCART	455600.0	4614000.0	180.23	180.23
RE DISCCART	455700.0	4614000.0	181.25	181.25
RE DISCCART	455800.0	4614000.0	181.47	181.47
RE DISCCART	455900.0	4614000.0	181.39	181.39
RE DISCCART	456000.0	4614000.0	181.38	181.38
RE DISCCART	456100.0	4614000.0	181.32	181.32
RE DISCCART	456200.0	4614000.0	180.69	180.69
RE DISCCART	456300.0	4614000.0	178.43	178.43
RE DISCCART	456400.0	4614000.0	178.32	178.32
RE DISCCART	456500.0	4614000.0	182.4	182.4
RE DISCCART	456600.0	4614000.0	178.72	178.72
RE DISCCART	452000.0	4614100.0	179.07	179.07
RE DISCCART	452100.0	4614100.0	179.58	198.84

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RE DISCCART	452200.0	4614100.0	197.09	197.09
RE DISCCART	452300.0	4614100.0	195.23	198.22
RE DISCCART	452400.0	4614100.0	179.09	198.85
RE DISCCART	452500.0	4614100.0	180.38	180.38
RE DISCCART	452600.0	4614100.0	181.7	181.7
RE DISCCART	452700.0	4614100.0	180.89	180.89
RE DISCCART	452800.0	4614100.0	180.99	180.99
RE DISCCART	452900.0	4614100.0	182.92	182.92
RE DISCCART	453000.0	4614100.0	180.41	180.41
RE DISCCART	453100.0	4614100.0	178.33	178.33
RE DISCCART	453200.0	4614100.0	178.88	178.88
RE DISCCART	453300.0	4614100.0	178.83	178.83
RE DISCCART	453400.0	4614100.0	178.47	178.47
RE DISCCART	453500.0	4614100.0	179.73	179.73
RE DISCCART	453600.0	4614100.0	179.39	179.39
RE DISCCART	453700.0	4614100.0	179.04	179.04
RE DISCCART	453800.0	4614100.0	179.72	179.72
RE DISCCART	453900.0	4614100.0	179.09	179.09
RE DISCCART	454000.0	4614100.0	175.19	175.19
RE DISCCART	454100.0	4614100.0	178.19	178.19
RE DISCCART	454200.0	4614100.0	178.19	178.19
RE DISCCART	454300.0	4614100.0	178.19	178.19
RE DISCCART	454400.0	4614100.0	178.19	178.19
RE DISCCART	454500.0	4614100.0	178.19	178.19
RE DISCCART	454600.0	4614100.0	178.19	178.19
RE DISCCART	454700.0	4614100.0	178.19	178.19
RE DISCCART	454800.0	4614100.0	178.19	178.19
RE DISCCART	454900.0	4614100.0	178.19	178.19
RE DISCCART	455000.0	4614100.0	178.19	178.19
RE DISCCART	455100.0	4614100.0	178.19	178.19
RE DISCCART	455200.0	4614100.0	178.19	178.19
RE DISCCART	455300.0	4614100.0	178.19	178.19
RE DISCCART	455400.0	4614100.0	178.19	178.19
RE DISCCART	455500.0	4614100.0	178.19	178.19
RE DISCCART	455600.0	4614100.0	179.6	179.6
RE DISCCART	455700.0	4614100.0	180.56	180.56
RE DISCCART	455800.0	4614100.0	181.09	181.09
RE DISCCART	455900.0	4614100.0	181.05	181.05
RE DISCCART	456000.0	4614100.0	181.04	181.04
RE DISCCART	456100.0	4614100.0	181.04	181.04
RE DISCCART	456200.0	4614100.0	180.17	180.17
RE DISCCART	456300.0	4614100.0	178.77	178.77
RE DISCCART	456400.0	4614100.0	178.5	178.5
RE DISCCART	456500.0	4614100.0	184.04	184.04
RE DISCCART	456600.0	4614100.0	179.04	179.04
RE DISCCART	452000.0	4614200.0	178.93	178.93
RE DISCCART	452100.0	4614200.0	179.54	198.06
RE DISCCART	452200.0	4614200.0	197.13	197.13

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RE DISCCART	452300.0	4614200.0	190.9	197.91
RE DISCCART	452400.0	4614200.0	179.36	198.45
RE DISCCART	452500.0	4614200.0	183.24	183.24
RE DISCCART	452600.0	4614200.0	181.18	181.18
RE DISCCART	452700.0	4614200.0	180.83	180.83
RE DISCCART	452800.0	4614200.0	180.61	180.61
RE DISCCART	452900.0	4614200.0	180.79	180.79
RE DISCCART	453000.0	4614200.0	180.07	180.07
RE DISCCART	453100.0	4614200.0	178.31	178.31
RE DISCCART	453200.0	4614200.0	178.73	178.73
RE DISCCART	453300.0	4614200.0	178.8	178.8
RE DISCCART	453400.0	4614200.0	178.39	178.39
RE DISCCART	453500.0	4614200.0	179.6	179.6
RE DISCCART	453600.0	4614200.0	178.69	178.69
RE DISCCART	453700.0	4614200.0	179.02	179.02
RE DISCCART	453800.0	4614200.0	179.71	179.71
RE DISCCART	453900.0	4614200.0	179.09	179.09
RE DISCCART	454000.0	4614200.0	175.42	178.
RE DISCCART	454300.0	4614200.0	178.19	178.19
RE DISCCART	454400.0	4614200.0	178.19	178.19
RE DISCCART	454500.0	4614200.0	178.19	178.19
RE DISCCART	454600.0	4614200.0	178.19	178.19
RE DISCCART	454700.0	4614200.0	178.19	178.19
RE DISCCART	454800.0	4614200.0	178.19	178.19
RE DISCCART	454900.0	4614200.0	178.19	178.19
RE DISCCART	455000.0	4614200.0	178.19	178.19
RE DISCCART	455100.0	4614200.0	178.19	178.19
RE DISCCART	455200.0	4614200.0	178.19	178.19
RE DISCCART	455300.0	4614200.0	178.19	178.19
RE DISCCART	455400.0	4614200.0	178.19	178.19
RE DISCCART	455500.0	4614200.0	178.19	178.19
RE DISCCART	455600.0	4614200.0	178.63	178.63
RE DISCCART	455700.0	4614200.0	179.95	179.95
RE DISCCART	455800.0	4614200.0	180.45	180.45
RE DISCCART	455900.0	4614200.0	180.74	180.74
RE DISCCART	456000.0	4614200.0	180.81	180.81
RE DISCCART	456100.0	4614200.0	180.77	180.77
RE DISCCART	456200.0	4614200.0	179.77	179.77
RE DISCCART	456300.0	4614200.0	179.16	179.16
RE DISCCART	456400.0	4614200.0	178.38	178.38
RE DISCCART	456500.0	4614200.0	185.68	185.68
RE DISCCART	456600.0	4614200.0	178.92	178.92
RE DISCCART	452000.0	4614300.0	178.79	178.79
RE DISCCART	452100.0	4614300.0	179.54	198.44
RE DISCCART	452200.0	4614300.0	196.96	196.96
RE DISCCART	452300.0	4614300.0	195.32	197.99
RE DISCCART	452400.0	4614300.0	179.88	207.67
RE DISCCART	452500.0	4614300.0	180.64	180.64

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RE DISCCART	452600.0	4614300.0	181.19	181.19
RE DISCCART	452700.0	4614300.0	180.86	180.86
RE DISCCART	452800.0	4614300.0	180.67	180.67
RE DISCCART	452900.0	4614300.0	180.33	180.33
RE DISCCART	453000.0	4614300.0	179.92	179.92
RE DISCCART	453100.0	4614300.0	178.28	178.28
RE DISCCART	453200.0	4614300.0	178.62	178.62
RE DISCCART	453300.0	4614300.0	178.72	178.72
RE DISCCART	453400.0	4614300.0	178.4	178.4
RE DISCCART	453500.0	4614300.0	179.56	179.56
RE DISCCART	453600.0	4614300.0	178.57	178.57
RE DISCCART	453700.0	4614300.0	179.36	179.36
RE DISCCART	453800.0	4614300.0	179.09	179.09
RE DISCCART	453900.0	4614300.0	179.09	179.09
RE DISCCART	454000.0	4614300.0	175.57	179.43
RE DISCCART	454400.0	4614300.0	178.19	178.19
RE DISCCART	454500.0	4614300.0	178.19	178.19
RE DISCCART	454600.0	4614300.0	178.19	178.19
RE DISCCART	454700.0	4614300.0	178.19	178.19
RE DISCCART	454800.0	4614300.0	178.19	178.19
RE DISCCART	454900.0	4614300.0	178.19	178.19
RE DISCCART	455000.0	4614300.0	178.19	178.19
RE DISCCART	455100.0	4614300.0	178.19	178.19
RE DISCCART	455200.0	4614300.0	178.19	178.19
RE DISCCART	455300.0	4614300.0	178.19	178.19
RE DISCCART	455400.0	4614300.0	178.19	178.19
RE DISCCART	455500.0	4614300.0	178.19	178.19
RE DISCCART	455600.0	4614300.0	178.2	178.2
RE DISCCART	455700.0	4614300.0	179.16	179.16
RE DISCCART	455800.0	4614300.0	180.06	180.06
RE DISCCART	455900.0	4614300.0	180.42	180.42
RE DISCCART	456000.0	4614300.0	180.52	180.52
RE DISCCART	456100.0	4614300.0	180.76	180.76
RE DISCCART	456200.0	4614300.0	180.53	180.53
RE DISCCART	456300.0	4614300.0	179.71	179.71
RE DISCCART	456400.0	4614300.0	178.79	178.79
RE DISCCART	456500.0	4614300.0	186.67	186.67
RE DISCCART	456600.0	4614300.0	178.51	178.51
RE DISCCART	452000.0	4614400.0	178.88	178.88
RE DISCCART	452100.0	4614400.0	179.64	209.4
RE DISCCART	452200.0	4614400.0	189.91	197.97
RE DISCCART	452300.0	4614400.0	182.14	209.86
RE DISCCART	452400.0	4614400.0	180.84	209.89
RE DISCCART	452500.0	4614400.0	181.52	209.73
RE DISCCART	452600.0	4614400.0	182.58	209.73
RE DISCCART	452700.0	4614400.0	183.21	207.94
RE DISCCART	452800.0	4614400.0	180.86	180.86
RE DISCCART	452900.0	4614400.0	180.43	180.43

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RE DISCCART	453000.0	4614400.0	179.93	179.93
RE DISCCART	453100.0	4614400.0	178.28	178.28
RE DISCCART	453200.0	4614400.0	178.57	178.57
RE DISCCART	453300.0	4614400.0	178.59	178.59
RE DISCCART	453400.0	4614400.0	178.36	178.36
RE DISCCART	453500.0	4614400.0	179.53	179.53
RE DISCCART	453600.0	4614400.0	178.42	178.42
RE DISCCART	453700.0	4614400.0	178.26	178.26
RE DISCCART	453800.0	4614400.0	179.25	179.25
RE DISCCART	453900.0	4614400.0	179.09	179.09
RE DISCCART	454000.0	4614400.0	175.74	179.36
RE DISCCART	454100.0	4614400.0	176.57	176.57
RE DISCCART	454600.0	4614400.0	178.19	178.19
RE DISCCART	454700.0	4614400.0	178.19	178.19
RE DISCCART	454800.0	4614400.0	178.19	178.19
RE DISCCART	454900.0	4614400.0	178.19	178.19
RE DISCCART	455000.0	4614400.0	178.19	178.19
RE DISCCART	455100.0	4614400.0	178.19	178.19
RE DISCCART	455200.0	4614400.0	178.19	178.19
RE DISCCART	455300.0	4614400.0	178.19	178.19
RE DISCCART	455400.0	4614400.0	178.19	178.19
RE DISCCART	455500.0	4614400.0	178.19	178.19
RE DISCCART	455600.0	4614400.0	178.19	178.19
RE DISCCART	455700.0	4614400.0	178.49	178.49
RE DISCCART	455800.0	4614400.0	179.75	179.75
RE DISCCART	455900.0	4614400.0	179.98	179.98
RE DISCCART	456000.0	4614400.0	180.08	180.08
RE DISCCART	456100.0	4614400.0	180.33	180.33
RE DISCCART	456200.0	4614400.0	180.14	180.14
RE DISCCART	456300.0	4614400.0	180.1	180.1
RE DISCCART	456400.0	4614400.0	179.18	179.18
RE DISCCART	456500.0	4614400.0	183.97	187.29
RE DISCCART	456600.0	4614400.0	178.1	187.29
RE DISCCART	452000.0	4614500.0	178.92	209.34
RE DISCCART	452100.0	4614500.0	179.63	209.73
RE DISCCART	452200.0	4614500.0	181.94	209.9
RE DISCCART	452300.0	4614500.0	184.57	209.9
RE DISCCART	452400.0	4614500.0	185.99	209.9
RE DISCCART	452500.0	4614500.0	186.21	209.89
RE DISCCART	452600.0	4614500.0	187.94	209.73
RE DISCCART	452700.0	4614500.0	183.09	209.73
RE DISCCART	452800.0	4614500.0	181.1	207.94
RE DISCCART	452900.0	4614500.0	180.76	180.76
RE DISCCART	453000.0	4614500.0	179.97	179.97
RE DISCCART	453100.0	4614500.0	177.09	177.09
RE DISCCART	453200.0	4614500.0	178.51	178.51
RE DISCCART	453300.0	4614500.0	178.6	178.6
RE DISCCART	453400.0	4614500.0	178.4	178.4

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RE DISCCART 453500.0 4614500.0 178.3 178.3
RE DISCCART 453600.0 4614500.0 178.45 178.45
RE DISCCART 453700.0 4614500.0 178.29 178.29
RE DISCCART 453800.0 4614500.0 178.72 178.72
RE DISCCART 453900.0 4614500.0 179. 179.
RE DISCCART 454000.0 4614500.0 175.88 179.42
RE DISCCART 454100.0 4614500.0 175.68 178.19
RE DISCCART 454600.0 4614500.0 178.19 178.19
RE DISCCART 454700.0 4614500.0 178.19 178.19
RE DISCCART 454800.0 4614500.0 178.19 178.19
RE DISCCART 454900.0 4614500.0 178.19 178.19
RE DISCCART 455000.0 4614500.0 178.19 178.19
RE DISCCART 455100.0 4614500.0 178.19 178.19
RE DISCCART 455200.0 4614500.0 178.19 178.19
RE DISCCART 455300.0 4614500.0 178.19 178.19
RE DISCCART 455400.0 4614500.0 178.19 178.19
RE DISCCART 455500.0 4614500.0 178.19 178.19
RE DISCCART 455600.0 4614500.0 178.19 178.19
RE DISCCART 455700.0 4614500.0 178.19 178.19
RE DISCCART 455800.0 4614500.0 178.31 178.31
RE DISCCART 455900.0 4614500.0 178.95 178.95
RE DISCCART 456000.0 4614500.0 178.19 178.19
RE DISCCART 456100.0 4614500.0 177.84 177.84
RE DISCCART 456200.0 4614500.0 177.96 177.96
RE DISCCART 456300.0 4614500.0 177.94 177.94
RE DISCCART 456400.0 4614500.0 179.71 179.71
RE DISCCART 456500.0 4614500.0 178.56 186.45
RE DISCCART 456600.0 4614500.0 178.36 178.36
RE DISCCART 452000.0 4614600.0 178.9 209.55
RE DISCCART 452100.0 4614600.0 180.26 209.9
RE DISCCART 452200.0 4614600.0 203.8 208.92
RE DISCCART 452300.0 4614600.0 208.72 208.72
RE DISCCART 452400.0 4614600.0 209.12 209.12
RE DISCCART 452500.0 4614600.0 209.2 209.2
RE DISCCART 452600.0 4614600.0 196.42 209.73
RE DISCCART 452700.0 4614600.0 183.46 209.73
RE DISCCART 452800.0 4614600.0 182.18 207.94
RE DISCCART 452900.0 4614600.0 181.41 181.41
RE DISCCART 453000.0 4614600.0 180.16 180.16
RE DISCCART 453100.0 4614600.0 177.17 177.17
RE DISCCART 453200.0 4614600.0 177.04 177.04
RE DISCCART 453300.0 4614600.0 178.49 178.49
RE DISCCART 453400.0 4614600.0 178.39 178.39
RE DISCCART 453500.0 4614600.0 178.29 178.29
RE DISCCART 453600.0 4614600.0 178.33 178.33
RE DISCCART 453700.0 4614600.0 178.35 178.35
RE DISCCART 453800.0 4614600.0 178.61 178.61
RE DISCCART 453900.0 4614600.0 178.92 178.92

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RE DISCCART	454000.0	4614600.0	175.99	179.37
RE DISCCART	454100.0	4614600.0	175.6	178.19
RE DISCCART	454600.0	4614600.0	178.19	178.19
RE DISCCART	454700.0	4614600.0	178.19	178.19
RE DISCCART	454800.0	4614600.0	178.19	178.19
RE DISCCART	454900.0	4614600.0	178.19	178.19
RE DISCCART	455000.0	4614600.0	178.19	178.19
RE DISCCART	455100.0	4614600.0	178.19	178.19
RE DISCCART	455200.0	4614600.0	178.19	178.19
RE DISCCART	455300.0	4614600.0	178.19	178.19
RE DISCCART	455400.0	4614600.0	178.19	178.19
RE DISCCART	455500.0	4614600.0	178.19	178.19
RE DISCCART	455600.0	4614600.0	178.19	178.19
RE DISCCART	455700.0	4614600.0	178.19	178.19
RE DISCCART	455800.0	4614600.0	178.19	178.19
RE DISCCART	455900.0	4614600.0	178.69	178.69
RE DISCCART	456000.0	4614600.0	178.19	178.19
RE DISCCART	456100.0	4614600.0	177.59	177.59
RE DISCCART	456200.0	4614600.0	177.82	177.82
RE DISCCART	456300.0	4614600.0	178.03	178.03
RE DISCCART	456400.0	4614600.0	180.27	180.27
RE DISCCART	456500.0	4614600.0	182.16	184.29
RE DISCCART	456600.0	4614600.0	178.17	178.17
RE DISCCART	452000.0	4614700.0	178.61	209.55
RE DISCCART	452100.0	4614700.0	182.05	209.9
RE DISCCART	452200.0	4614700.0	204.96	205.33
RE DISCCART	452300.0	4614700.0	209.03	209.03
RE DISCCART	452400.0	4614700.0	209.72	209.72
RE DISCCART	452500.0	4614700.0	206.37	206.67
RE DISCCART	452600.0	4614700.0	189.84	209.73
RE DISCCART	452700.0	4614700.0	181.74	209.73
RE DISCCART	452800.0	4614700.0	181.84	181.84
RE DISCCART	452900.0	4614700.0	179.74	179.74
RE DISCCART	453000.0	4614700.0	179.51	179.51
RE DISCCART	453100.0	4614700.0	177.25	177.25
RE DISCCART	453200.0	4614700.0	178.39	178.39
RE DISCCART	453300.0	4614700.0	178.39	178.39
RE DISCCART	453400.0	4614700.0	178.29	178.29
RE DISCCART	453500.0	4614700.0	178.29	178.29
RE DISCCART	453600.0	4614700.0	178.29	178.29
RE DISCCART	453700.0	4614700.0	178.49	178.49
RE DISCCART	453800.0	4614700.0	178.54	178.54
RE DISCCART	453900.0	4614700.0	178.7	178.7
RE DISCCART	454000.0	4614700.0	175.65	175.65
RE DISCCART	454100.0	4614700.0	178.51	178.51
RE DISCCART	454600.0	4614700.0	178.19	178.19
RE DISCCART	454700.0	4614700.0	178.19	178.19
RE DISCCART	454800.0	4614700.0	178.19	178.19

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RE DISCCART	454900.0	4614700.0	178.19	178.19
RE DISCCART	455000.0	4614700.0	178.19	178.19
RE DISCCART	455100.0	4614700.0	178.19	178.19
RE DISCCART	455200.0	4614700.0	178.19	178.19
RE DISCCART	455300.0	4614700.0	178.19	178.19
RE DISCCART	455400.0	4614700.0	178.19	178.19
RE DISCCART	455500.0	4614700.0	178.19	178.19
RE DISCCART	455600.0	4614700.0	178.19	178.19
RE DISCCART	455700.0	4614700.0	178.19	178.19
RE DISCCART	455800.0	4614700.0	178.19	178.19
RE DISCCART	455900.0	4614700.0	178.26	178.26
RE DISCCART	456000.0	4614700.0	178.19	178.19
RE DISCCART	456100.0	4614700.0	177.49	177.49
RE DISCCART	456200.0	4614700.0	177.74	177.74
RE DISCCART	456300.0	4614700.0	177.8	177.8
RE DISCCART	456400.0	4614700.0	180.18	180.18
RE DISCCART	456500.0	4614700.0	181.96	186.77
RE DISCCART	456600.0	4614700.0	178.38	186.77
RE DISCCART	452000.0	4614800.0	178.29	208.98
RE DISCCART	452100.0	4614800.0	180.94	209.9
RE DISCCART	452200.0	4614800.0	183.21	209.9
RE DISCCART	452300.0	4614800.0	200.55	209.75
RE DISCCART	452400.0	4614800.0	201.	209.89
RE DISCCART	452500.0	4614800.0	200.47	206.65
RE DISCCART	452600.0	4614800.0	187.78	209.75
RE DISCCART	452700.0	4614800.0	179.32	209.75
RE DISCCART	452800.0	4614800.0	183.44	183.44
RE DISCCART	452900.0	4614800.0	180.	180.
RE DISCCART	453000.0	4614800.0	178.29	178.29
RE DISCCART	453100.0	4614800.0	178.3	178.3
RE DISCCART	453200.0	4614800.0	178.29	178.29
RE DISCCART	453300.0	4614800.0	178.29	178.29
RE DISCCART	453400.0	4614800.0	178.29	178.29
RE DISCCART	453500.0	4614800.0	178.29	178.29
RE DISCCART	453600.0	4614800.0	178.29	178.29
RE DISCCART	453700.0	4614800.0	178.48	178.48
RE DISCCART	453800.0	4614800.0	178.49	178.49
RE DISCCART	453900.0	4614800.0	178.71	178.71
RE DISCCART	454000.0	4614800.0	175.37	175.37
RE DISCCART	454600.0	4614800.0	178.19	178.19
RE DISCCART	454700.0	4614800.0	178.19	178.19
RE DISCCART	454800.0	4614800.0	178.19	178.19
RE DISCCART	454900.0	4614800.0	178.19	178.19
RE DISCCART	455000.0	4614800.0	178.19	178.19
RE DISCCART	455100.0	4614800.0	178.19	178.19
RE DISCCART	455200.0	4614800.0	178.19	178.19
RE DISCCART	455300.0	4614800.0	178.19	178.19
RE DISCCART	455400.0	4614800.0	178.19	178.19

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RE DISCCART	455500.0	4614800.0	178.19	178.19
RE DISCCART	455600.0	4614800.0	178.19	178.19
RE DISCCART	455700.0	4614800.0	178.19	178.19
RE DISCCART	455800.0	4614800.0	178.19	178.19
RE DISCCART	455900.0	4614800.0	178.19	178.19
RE DISCCART	456000.0	4614800.0	178.23	178.23
RE DISCCART	456100.0	4614800.0	177.61	177.61
RE DISCCART	456200.0	4614800.0	177.43	177.43
RE DISCCART	456300.0	4614800.0	177.7	177.7
RE DISCCART	456400.0	4614800.0	180.12	180.12
RE DISCCART	456500.0	4614800.0	180.3	186.14
RE DISCCART	456600.0	4614800.0	178.78	186.03
RE DISCCART	452000.0	4614900.0	178.29	178.29
RE DISCCART	452100.0	4614900.0	178.31	209.84
RE DISCCART	452200.0	4614900.0	178.29	209.9
RE DISCCART	452300.0	4614900.0	178.3	209.9
RE DISCCART	452400.0	4614900.0	178.35	209.9
RE DISCCART	452500.0	4614900.0	178.44	209.9
RE DISCCART	452600.0	4614900.0	178.52	209.9
RE DISCCART	452700.0	4614900.0	178.29	206.67
RE DISCCART	452800.0	4614900.0	178.3	178.3
RE DISCCART	452900.0	4614900.0	178.32	178.32
RE DISCCART	453000.0	4614900.0	178.29	178.29
RE DISCCART	453100.0	4614900.0	178.29	178.29
RE DISCCART	453200.0	4614900.0	178.29	178.29
RE DISCCART	453300.0	4614900.0	178.29	178.29
RE DISCCART	453400.0	4614900.0	178.29	178.29
RE DISCCART	453500.0	4614900.0	178.29	178.29
RE DISCCART	453600.0	4614900.0	178.29	178.29
RE DISCCART	453700.0	4614900.0	178.49	178.49
RE DISCCART	453800.0	4614900.0	178.53	178.53
RE DISCCART	453900.0	4614900.0	178.34	178.34
RE DISCCART	454000.0	4614900.0	175.19	175.19
RE DISCCART	454600.0	4614900.0	178.19	178.19
RE DISCCART	454700.0	4614900.0	178.19	178.19
RE DISCCART	454800.0	4614900.0	178.19	178.19
RE DISCCART	454900.0	4614900.0	178.19	178.19
RE DISCCART	455000.0	4614900.0	178.19	178.19
RE DISCCART	455100.0	4614900.0	178.19	178.19
RE DISCCART	455200.0	4614900.0	178.19	178.19
RE DISCCART	455300.0	4614900.0	178.19	178.19
RE DISCCART	455400.0	4614900.0	178.19	178.19
RE DISCCART	455500.0	4614900.0	178.19	178.19
RE DISCCART	455600.0	4614900.0	178.19	178.19
RE DISCCART	455700.0	4614900.0	178.19	178.19
RE DISCCART	455800.0	4614900.0	178.19	178.19
RE DISCCART	455900.0	4614900.0	178.19	178.19
RE DISCCART	456000.0	4614900.0	178.19	178.19

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RE DISCCART	456100.0	4614900.0	178.65	178.65
RE DISCCART	456200.0	4614900.0	177.43	177.43
RE DISCCART	456300.0	4614900.0	177.7	177.7
RE DISCCART	456400.0	4614900.0	179.63	179.63
RE DISCCART	456500.0	4614900.0	179.68	184.84
RE DISCCART	456600.0	4614900.0	178.98	184.25
RE DISCCART	452000.0	4615000.0	178.29	178.29
RE DISCCART	452100.0	4615000.0	178.29	178.29
RE DISCCART	452200.0	4615000.0	178.29	209.75
RE DISCCART	452300.0	4615000.0	178.29	209.9
RE DISCCART	452400.0	4615000.0	178.29	209.9
RE DISCCART	452500.0	4615000.0	178.29	209.89
RE DISCCART	452600.0	4615000.0	178.29	209.75
RE DISCCART	452700.0	4615000.0	178.29	178.29
RE DISCCART	452800.0	4615000.0	178.29	178.29
RE DISCCART	452900.0	4615000.0	178.29	178.29
RE DISCCART	453000.0	4615000.0	178.29	178.29
RE DISCCART	453100.0	4615000.0	178.29	178.29
RE DISCCART	453200.0	4615000.0	178.29	178.29
RE DISCCART	453300.0	4615000.0	178.29	178.29
RE DISCCART	453400.0	4615000.0	178.29	178.29
RE DISCCART	453500.0	4615000.0	178.29	178.29
RE DISCCART	453600.0	4615000.0	178.29	178.29
RE DISCCART	453700.0	4615000.0	178.39	178.39
RE DISCCART	453800.0	4615000.0	178.39	178.39
RE DISCCART	453900.0	4615000.0	178.42	178.42
RE DISCCART	454000.0	4615000.0	175.19	175.19
RE DISCCART	454600.0	4615000.0	178.19	178.19
RE DISCCART	454700.0	4615000.0	178.19	178.19
RE DISCCART	454800.0	4615000.0	178.27	178.27
RE DISCCART	454900.0	4615000.0	178.19	178.19
RE DISCCART	455000.0	4615000.0	178.19	178.19
RE DISCCART	455100.0	4615000.0	178.19	178.19
RE DISCCART	455200.0	4615000.0	178.19	178.19
RE DISCCART	455300.0	4615000.0	178.19	178.19
RE DISCCART	455400.0	4615000.0	178.19	178.19
RE DISCCART	455500.0	4615000.0	178.19	178.19
RE DISCCART	455600.0	4615000.0	178.19	178.19
RE DISCCART	455700.0	4615000.0	178.19	178.19
RE DISCCART	455800.0	4615000.0	178.19	178.19
RE DISCCART	455900.0	4615000.0	178.19	178.19
RE DISCCART	456000.0	4615000.0	178.19	178.19
RE DISCCART	456100.0	4615000.0	178.05	178.05
RE DISCCART	456200.0	4615000.0	178.26	178.26
RE DISCCART	456300.0	4615000.0	177.64	177.64
RE DISCCART	456400.0	4615000.0	179.49	179.49
RE DISCCART	456500.0	4615000.0	179.26	182.74
RE DISCCART	456600.0	4615000.0	179.42	182.36

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RE DISCCART	452000.0	4615100.0	178.29	178.29
RE DISCCART	452100.0	4615100.0	177.98	177.98
RE DISCCART	452200.0	4615100.0	177.62	177.62
RE DISCCART	452300.0	4615100.0	178.29	178.29
RE DISCCART	452400.0	4615100.0	178.29	178.29
RE DISCCART	452500.0	4615100.0	178.29	178.29
RE DISCCART	452600.0	4615100.0	178.29	178.29
RE DISCCART	452700.0	4615100.0	178.29	178.29
RE DISCCART	452800.0	4615100.0	178.29	178.29
RE DISCCART	452900.0	4615100.0	178.29	178.29
RE DISCCART	453000.0	4615100.0	178.29	178.29
RE DISCCART	453100.0	4615100.0	178.34	178.34
RE DISCCART	453200.0	4615100.0	178.39	178.39
RE DISCCART	453300.0	4615100.0	178.29	178.29
RE DISCCART	453400.0	4615100.0	178.29	178.29
RE DISCCART	453500.0	4615100.0	178.29	178.29
RE DISCCART	453600.0	4615100.0	178.29	178.29
RE DISCCART	453700.0	4615100.0	178.29	178.29
RE DISCCART	453800.0	4615100.0	178.29	178.29
RE DISCCART	453900.0	4615100.0	178.29	178.29
RE DISCCART	454000.0	4615100.0	175.19	175.19
RE DISCCART	454100.0	4615100.0	178.18	178.18
RE DISCCART	454600.0	4615100.0	178.19	178.19
RE DISCCART	454700.0	4615100.0	178.19	178.19
RE DISCCART	454800.0	4615100.0	178.19	178.19
RE DISCCART	454900.0	4615100.0	178.19	178.19
RE DISCCART	455000.0	4615100.0	178.19	178.19
RE DISCCART	455100.0	4615100.0	178.19	178.19
RE DISCCART	455200.0	4615100.0	178.19	178.19
RE DISCCART	455300.0	4615100.0	178.19	178.19
RE DISCCART	455400.0	4615100.0	178.19	178.19
RE DISCCART	455500.0	4615100.0	178.19	178.19
RE DISCCART	455600.0	4615100.0	178.19	178.19
RE DISCCART	455700.0	4615100.0	178.19	178.19
RE DISCCART	455800.0	4615100.0	178.19	178.19
RE DISCCART	455900.0	4615100.0	178.19	178.19
RE DISCCART	456000.0	4615100.0	178.19	178.19
RE DISCCART	456100.0	4615100.0	177.83	177.83
RE DISCCART	456200.0	4615100.0	177.91	177.91
RE DISCCART	456300.0	4615100.0	177.88	177.88
RE DISCCART	456400.0	4615100.0	179.68	179.68
RE DISCCART	456500.0	4615100.0	179.97	179.97
RE DISCCART	456600.0	4615100.0	179.97	179.97
RE DISCCART	452000.0	4615200.0	178.29	178.29
RE DISCCART	452100.0	4615200.0	177.59	177.59
RE DISCCART	452200.0	4615200.0	178.28	178.28
RE DISCCART	452300.0	4615200.0	178.29	178.29
RE DISCCART	452400.0	4615200.0	178.29	178.29

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RE DISCCART	452500.0	4615200.0	178.29	178.29
RE DISCCART	452600.0	4615200.0	178.29	178.29
RE DISCCART	452700.0	4615200.0	178.29	178.29
RE DISCCART	452800.0	4615200.0	178.29	178.29
RE DISCCART	452900.0	4615200.0	178.29	178.29
RE DISCCART	453000.0	4615200.0	178.29	178.29
RE DISCCART	453100.0	4615200.0	178.33	178.33
RE DISCCART	453200.0	4615200.0	178.49	178.49
RE DISCCART	453300.0	4615200.0	178.29	178.29
RE DISCCART	453400.0	4615200.0	178.29	178.29
RE DISCCART	453500.0	4615200.0	178.29	178.29
RE DISCCART	453600.0	4615200.0	178.29	178.29
RE DISCCART	453700.0	4615200.0	178.29	178.29
RE DISCCART	453800.0	4615200.0	178.29	178.29
RE DISCCART	453900.0	4615200.0	178.32	178.32
RE DISCCART	454000.0	4615200.0	175.53	175.53
RE DISCCART	454100.0	4615200.0	178.1	178.1
RE DISCCART	454200.0	4615200.0	178.19	178.19
RE DISCCART	454600.0	4615200.0	178.19	178.19
RE DISCCART	454700.0	4615200.0	178.19	178.19
RE DISCCART	454800.0	4615200.0	178.19	178.19
RE DISCCART	454900.0	4615200.0	178.19	178.19
RE DISCCART	455000.0	4615200.0	178.19	178.19
RE DISCCART	455100.0	4615200.0	178.19	178.19
RE DISCCART	455200.0	4615200.0	178.19	178.19
RE DISCCART	455300.0	4615200.0	178.19	178.19
RE DISCCART	455400.0	4615200.0	178.19	178.19
RE DISCCART	455500.0	4615200.0	178.19	178.19
RE DISCCART	455600.0	4615200.0	178.19	178.19
RE DISCCART	455700.0	4615200.0	178.19	178.19
RE DISCCART	455800.0	4615200.0	178.19	178.19
RE DISCCART	455900.0	4615200.0	178.19	178.19
RE DISCCART	456000.0	4615200.0	178.19	178.19
RE DISCCART	456100.0	4615200.0	178.08	178.08
RE DISCCART	456200.0	4615200.0	178.2	178.2
RE DISCCART	456300.0	4615200.0	177.94	177.94
RE DISCCART	456400.0	4615200.0	179.33	179.33
RE DISCCART	456500.0	4615200.0	181.3	181.3
RE DISCCART	456600.0	4615200.0	181.38	181.38
RE DISCCART	452000.0	4615300.0	178.29	178.29
RE DISCCART	452100.0	4615300.0	177.34	177.34
RE DISCCART	452200.0	4615300.0	178.29	178.29
RE DISCCART	452300.0	4615300.0	177.69	177.69
RE DISCCART	452400.0	4615300.0	177.71	177.71
RE DISCCART	452500.0	4615300.0	177.73	177.73
RE DISCCART	452600.0	4615300.0	177.75	177.75
RE DISCCART	452700.0	4615300.0	178.29	178.29
RE DISCCART	452800.0	4615300.0	178.29	178.29

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RE DISCCART	452900.0	4615300.0	178.29	178.29
RE DISCCART	453000.0	4615300.0	178.29	178.29
RE DISCCART	453100.0	4615300.0	178.36	178.36
RE DISCCART	453200.0	4615300.0	178.6	178.6
RE DISCCART	453300.0	4615300.0	178.46	178.46
RE DISCCART	453400.0	4615300.0	178.29	178.29
RE DISCCART	453500.0	4615300.0	178.29	178.29
RE DISCCART	453600.0	4615300.0	178.29	178.29
RE DISCCART	453700.0	4615300.0	178.29	178.29
RE DISCCART	453800.0	4615300.0	178.29	178.29
RE DISCCART	453900.0	4615300.0	178.42	178.42
RE DISCCART	454000.0	4615300.0	175.46	175.46
RE DISCCART	454100.0	4615300.0	178.41	178.41
RE DISCCART	454200.0	4615300.0	178.19	178.19
RE DISCCART	454300.0	4615300.0	178.19	178.19
RE DISCCART	454400.0	4615300.0	178.19	178.19
RE DISCCART	454500.0	4615300.0	178.19	178.19
RE DISCCART	454600.0	4615300.0	178.19	178.19
RE DISCCART	454700.0	4615300.0	178.19	178.19
RE DISCCART	454800.0	4615300.0	178.19	178.19
RE DISCCART	454900.0	4615300.0	178.19	178.19
RE DISCCART	455000.0	4615300.0	178.19	178.19
RE DISCCART	455100.0	4615300.0	178.19	178.19
RE DISCCART	455200.0	4615300.0	178.19	178.19
RE DISCCART	455300.0	4615300.0	178.19	178.19
RE DISCCART	455400.0	4615300.0	178.19	178.19
RE DISCCART	455500.0	4615300.0	178.19	178.19
RE DISCCART	455600.0	4615300.0	178.19	178.19
RE DISCCART	455700.0	4615300.0	178.19	178.19
RE DISCCART	455800.0	4615300.0	178.19	178.19
RE DISCCART	455900.0	4615300.0	178.19	178.19
RE DISCCART	456000.0	4615300.0	178.19	178.19
RE DISCCART	456100.0	4615300.0	178.26	178.26
RE DISCCART	456200.0	4615300.0	178.21	178.21
RE DISCCART	456300.0	4615300.0	177.86	177.86
RE DISCCART	456400.0	4615300.0	179.55	179.55
RE DISCCART	456500.0	4615300.0	182.27	182.27
RE DISCCART	456600.0	4615300.0	181.83	181.83
RE DISCCART	452000.0	4615400.0	178.29	178.29
RE DISCCART	452100.0	4615400.0	178.16	178.16
RE DISCCART	452200.0	4615400.0	177.99	177.99
RE DISCCART	452300.0	4615400.0	176.99	176.99
RE DISCCART	452400.0	4615400.0	176.99	176.99
RE DISCCART	452500.0	4615400.0	176.99	176.99
RE DISCCART	452600.0	4615400.0	177.01	177.01
RE DISCCART	452700.0	4615400.0	177.09	177.09
RE DISCCART	452800.0	4615400.0	176.99	176.99
RE DISCCART	452900.0	4615400.0	178.29	178.29

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RE DISCCART	453000.0	4615400.0	178.29	178.29
RE DISCCART	453100.0	4615400.0	178.38	178.38
RE DISCCART	453200.0	4615400.0	178.54	178.54
RE DISCCART	453300.0	4615400.0	178.63	178.63
RE DISCCART	453400.0	4615400.0	178.29	178.29
RE DISCCART	453500.0	4615400.0	178.29	178.29
RE DISCCART	453600.0	4615400.0	178.34	178.34
RE DISCCART	453700.0	4615400.0	178.29	178.29
RE DISCCART	453800.0	4615400.0	178.39	178.39
RE DISCCART	453900.0	4615400.0	178.44	178.44
RE DISCCART	454000.0	4615400.0	175.42	175.42
RE DISCCART	454100.0	4615400.0	178.56	178.56
RE DISCCART	454200.0	4615400.0	178.19	178.19
RE DISCCART	454300.0	4615400.0	178.19	178.19
RE DISCCART	454400.0	4615400.0	178.19	178.19
RE DISCCART	454500.0	4615400.0	178.19	178.19
RE DISCCART	454600.0	4615400.0	178.19	178.19
RE DISCCART	454700.0	4615400.0	178.19	178.19
RE DISCCART	454800.0	4615400.0	178.19	178.19
RE DISCCART	454900.0	4615400.0	178.19	178.19
RE DISCCART	455000.0	4615400.0	178.19	178.19
RE DISCCART	455100.0	4615400.0	178.19	178.19
RE DISCCART	455200.0	4615400.0	178.19	178.19
RE DISCCART	455300.0	4615400.0	178.19	178.19
RE DISCCART	455400.0	4615400.0	178.19	178.19
RE DISCCART	455500.0	4615400.0	178.19	178.19
RE DISCCART	455600.0	4615400.0	178.19	178.19
RE DISCCART	455700.0	4615400.0	178.19	178.19
RE DISCCART	455800.0	4615400.0	178.19	178.19
RE DISCCART	455900.0	4615400.0	178.19	178.19
RE DISCCART	456000.0	4615400.0	178.19	178.19
RE DISCCART	456100.0	4615400.0	178.21	178.21
RE DISCCART	456200.0	4615400.0	178.22	178.22
RE DISCCART	456300.0	4615400.0	177.8	177.8
RE DISCCART	456400.0	4615400.0	179.57	179.57
RE DISCCART	456500.0	4615400.0	181.06	181.06
RE DISCCART	456600.0	4615400.0	182.26	182.26
RE DISCCART	452000.0	4615500.0	178.29	178.29
RE DISCCART	452100.0	4615500.0	178.29	178.29
RE DISCCART	452200.0	4615500.0	178.29	178.29
RE DISCCART	452300.0	4615500.0	176.99	176.99
RE DISCCART	452400.0	4615500.0	176.99	176.99
RE DISCCART	452500.0	4615500.0	176.99	176.99
RE DISCCART	452600.0	4615500.0	178.29	178.29
RE DISCCART	452700.0	4615500.0	176.99	176.99
RE DISCCART	452800.0	4615500.0	176.99	176.99
RE DISCCART	452900.0	4615500.0	178.29	178.29
RE DISCCART	453000.0	4615500.0	178.29	178.29

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RE DISCCART	453100.0	4615500.0	178.39	178.39
RE DISCCART	453200.0	4615500.0	178.6	178.6
RE DISCCART	453300.0	4615500.0	178.68	178.68
RE DISCCART	453400.0	4615500.0	178.35	178.35
RE DISCCART	453500.0	4615500.0	178.29	178.29
RE DISCCART	453600.0	4615500.0	178.58	178.58
RE DISCCART	453700.0	4615500.0	178.42	178.42
RE DISCCART	453800.0	4615500.0	178.58	178.58
RE DISCCART	453900.0	4615500.0	178.31	178.31
RE DISCCART	454000.0	4615500.0	175.62	178.29
RE DISCCART	454100.0	4615500.0	176.8	176.8
RE DISCCART	454200.0	4615500.0	178.19	178.19
RE DISCCART	454300.0	4615500.0	178.19	178.19
RE DISCCART	454400.0	4615500.0	178.19	178.19
RE DISCCART	454500.0	4615500.0	178.19	178.19
RE DISCCART	454600.0	4615500.0	178.19	178.19
RE DISCCART	454700.0	4615500.0	178.19	178.19
RE DISCCART	454800.0	4615500.0	178.19	178.19
RE DISCCART	454900.0	4615500.0	178.19	178.19
RE DISCCART	455000.0	4615500.0	178.19	178.19
RE DISCCART	455100.0	4615500.0	178.19	178.19
RE DISCCART	455200.0	4615500.0	178.19	178.19
RE DISCCART	455300.0	4615500.0	178.19	178.19
RE DISCCART	455400.0	4615500.0	178.19	178.19
RE DISCCART	455500.0	4615500.0	178.19	178.19
RE DISCCART	455600.0	4615500.0	178.19	178.19
RE DISCCART	455700.0	4615500.0	178.19	178.19
RE DISCCART	455800.0	4615500.0	178.19	178.19
RE DISCCART	455900.0	4615500.0	178.19	178.19
RE DISCCART	456000.0	4615500.0	178.19	178.19
RE DISCCART	456100.0	4615500.0	177.86	177.86
RE DISCCART	456200.0	4615500.0	178.22	178.22
RE DISCCART	456300.0	4615500.0	177.49	177.49
RE DISCCART	456400.0	4615500.0	178.8	178.8
RE DISCCART	456500.0	4615500.0	179.85	183.18
RE DISCCART	456600.0	4615500.0	179.81	183.26
RE DISCCART	452000.0	4615600.0	178.29	178.29
RE DISCCART	452100.0	4615600.0	178.29	178.29
RE DISCCART	452200.0	4615600.0	178.29	178.29
RE DISCCART	452300.0	4615600.0	176.99	176.99
RE DISCCART	452400.0	4615600.0	177.84	177.84
RE DISCCART	452500.0	4615600.0	176.99	176.99
RE DISCCART	452600.0	4615600.0	176.99	176.99
RE DISCCART	452700.0	4615600.0	177.97	177.97
RE DISCCART	452800.0	4615600.0	177.89	177.89
RE DISCCART	452900.0	4615600.0	178.29	178.29
RE DISCCART	453000.0	4615600.0	178.29	178.29
RE DISCCART	453100.0	4615600.0	178.45	178.45

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RE DISCCART	453200.0	4615600.0	178.69	178.69
RE DISCCART	453300.0	4615600.0	178.82	178.82
RE DISCCART	453400.0	4615600.0	178.85	178.85
RE DISCCART	453500.0	4615600.0	178.71	178.71
RE DISCCART	453600.0	4615600.0	178.84	178.84
RE DISCCART	453700.0	4615600.0	178.84	178.84
RE DISCCART	453800.0	4615600.0	178.72	178.72
RE DISCCART	453900.0	4615600.0	178.45	178.45
RE DISCCART	454000.0	4615600.0	176.58	176.58
RE DISCCART	454100.0	4615600.0	177.2	177.2
RE DISCCART	454200.0	4615600.0	178.19	178.19
RE DISCCART	454300.0	4615600.0	178.19	178.19
RE DISCCART	454400.0	4615600.0	178.19	178.19
RE DISCCART	454500.0	4615600.0	178.19	178.19
RE DISCCART	454600.0	4615600.0	178.19	178.19
RE DISCCART	454700.0	4615600.0	178.19	178.19
RE DISCCART	454800.0	4615600.0	178.19	178.19
RE DISCCART	454900.0	4615600.0	178.19	178.19
RE DISCCART	455000.0	4615600.0	178.19	178.19
RE DISCCART	455100.0	4615600.0	178.19	178.19
RE DISCCART	455200.0	4615600.0	178.19	178.19
RE DISCCART	455300.0	4615600.0	178.19	178.19
RE DISCCART	455400.0	4615600.0	178.19	178.19
RE DISCCART	455500.0	4615600.0	178.19	178.19
RE DISCCART	455600.0	4615600.0	178.19	178.19
RE DISCCART	455700.0	4615600.0	178.19	178.19
RE DISCCART	455800.0	4615600.0	178.19	178.19
RE DISCCART	455900.0	4615600.0	178.19	178.19
RE DISCCART	456000.0	4615600.0	178.19	178.19
RE DISCCART	456100.0	4615600.0	177.52	177.52
RE DISCCART	456200.0	4615600.0	178.02	178.02
RE DISCCART	456300.0	4615600.0	178.38	178.38
RE DISCCART	456400.0	4615600.0	178.77	178.77
RE DISCCART	456500.0	4615600.0	179.03	183.54
RE DISCCART	456600.0	4615600.0	178.87	183.7
RE DISCCART	452000.0	4615700.0	178.29	178.29
RE DISCCART	452100.0	4615700.0	178.29	178.29
RE DISCCART	452200.0	4615700.0	178.29	178.29
RE DISCCART	452300.0	4615700.0	177.57	177.57
RE DISCCART	452400.0	4615700.0	177.7	177.7
RE DISCCART	452500.0	4615700.0	176.99	176.99
RE DISCCART	452600.0	4615700.0	176.99	176.99
RE DISCCART	452700.0	4615700.0	176.99	176.99
RE DISCCART	452800.0	4615700.0	177.16	177.16
RE DISCCART	452900.0	4615700.0	176.99	176.99
RE DISCCART	453000.0	4615700.0	178.29	178.29
RE DISCCART	453100.0	4615700.0	178.45	178.45
RE DISCCART	453200.0	4615700.0	178.79	178.79

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RE DISCCART	453300.0	4615700.0	179.01	179.01
RE DISCCART	453400.0	4615700.0	179.16	179.16
RE DISCCART	453500.0	4615700.0	179.17	179.17
RE DISCCART	453600.0	4615700.0	179.14	179.14
RE DISCCART	453700.0	4615700.0	179.07	179.07
RE DISCCART	453800.0	4615700.0	178.8	178.8
RE DISCCART	453900.0	4615700.0	178.39	178.39
RE DISCCART	454000.0	4615700.0	177.6	177.6
RE DISCCART	454100.0	4615700.0	175.19	178.41
RE DISCCART	454200.0	4615700.0	178.19	178.19
RE DISCCART	454300.0	4615700.0	178.19	178.19
RE DISCCART	454400.0	4615700.0	178.19	178.19
RE DISCCART	454500.0	4615700.0	178.19	178.19
RE DISCCART	454600.0	4615700.0	178.19	178.19
RE DISCCART	454700.0	4615700.0	178.19	178.19
RE DISCCART	454800.0	4615700.0	178.19	178.19
RE DISCCART	454900.0	4615700.0	178.19	178.19
RE DISCCART	455000.0	4615700.0	178.19	178.19
RE DISCCART	455100.0	4615700.0	178.19	178.19
RE DISCCART	455200.0	4615700.0	178.19	178.19
RE DISCCART	455300.0	4615700.0	178.19	178.19
RE DISCCART	455400.0	4615700.0	178.19	178.19
RE DISCCART	455500.0	4615700.0	178.19	178.19
RE DISCCART	455600.0	4615700.0	178.19	178.19
RE DISCCART	455700.0	4615700.0	178.19	178.19
RE DISCCART	455800.0	4615700.0	178.19	178.19
RE DISCCART	455900.0	4615700.0	178.19	178.19
RE DISCCART	456000.0	4615700.0	178.19	178.19
RE DISCCART	456100.0	4615700.0	178.5	178.5
RE DISCCART	456200.0	4615700.0	178.59	178.59
RE DISCCART	456300.0	4615700.0	178.59	178.59
RE DISCCART	456400.0	4615700.0	178.48	178.48
RE DISCCART	456500.0	4615700.0	178.32	183.58
RE DISCCART	456600.0	4615700.0	178.79	183.72
RE DISCCART	452000.0	4615800.0	178.29	178.29
RE DISCCART	452100.0	4615800.0	178.29	178.29
RE DISCCART	452200.0	4615800.0	178.29	178.29
RE DISCCART	452300.0	4615800.0	176.99	176.99
RE DISCCART	452400.0	4615800.0	178.29	178.29
RE DISCCART	452500.0	4615800.0	178.29	178.29
RE DISCCART	452600.0	4615800.0	178.29	178.29
RE DISCCART	452700.0	4615800.0	176.99	176.99
RE DISCCART	452800.0	4615800.0	177.73	177.73
RE DISCCART	452900.0	4615800.0	178.29	178.29
RE DISCCART	453000.0	4615800.0	178.29	178.29
RE DISCCART	453100.0	4615800.0	178.45	178.45
RE DISCCART	453200.0	4615800.0	178.78	178.78
RE DISCCART	453300.0	4615800.0	179.01	179.01

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RE DISCCART 453400.0 4615800.0 179. 179.
RE DISCCART 453500.0 4615800.0 179.4 179.4
RE DISCCART 453600.0 4615800.0 179.39 179.39
RE DISCCART 453700.0 4615800.0 179.25 179.25
RE DISCCART 453800.0 4615800.0 178.55 178.55
RE DISCCART 453900.0 4615800.0 178.36 178.36
RE DISCCART 454000.0 4615800.0 176.8 178.29
RE DISCCART 454100.0 4615800.0 175.19 178.09
RE DISCCART 454200.0 4615800.0 178.19 178.19
RE DISCCART 454300.0 4615800.0 178.19 178.19
RE DISCCART 454400.0 4615800.0 178.19 178.19
RE DISCCART 454500.0 4615800.0 178.19 178.19
RE DISCCART 454600.0 4615800.0 178.19 178.19
RE DISCCART 454700.0 4615800.0 178.19 178.19
RE DISCCART 454800.0 4615800.0 178.19 178.19
RE DISCCART 454900.0 4615800.0 178.19 178.19
RE DISCCART 455000.0 4615800.0 178.19 178.19
RE DISCCART 455100.0 4615800.0 178.19 178.19
RE DISCCART 455200.0 4615800.0 178.19 178.19
RE DISCCART 455300.0 4615800.0 178.19 178.19
RE DISCCART 455400.0 4615800.0 178.19 178.19
RE DISCCART 455500.0 4615800.0 178.19 178.19
RE DISCCART 455600.0 4615800.0 178.19 178.19
RE DISCCART 455700.0 4615800.0 178.19 178.19
RE DISCCART 455800.0 4615800.0 178.19 178.19
RE DISCCART 455900.0 4615800.0 178.19 178.19
RE DISCCART 456000.0 4615800.0 178.19 178.19
RE DISCCART 456100.0 4615800.0 178.01 178.01
RE DISCCART 456200.0 4615800.0 178.28 178.28
RE DISCCART 456300.0 4615800.0 178.36 178.36
RE DISCCART 456400.0 4615800.0 178.53 178.53
RE DISCCART 456500.0 4615800.0 178.37 183.37
RE DISCCART 456600.0 4615800.0 179.34 183.68
RE DISCCART 452000.0 4615900.0 178.29 178.29
RE DISCCART 452100.0 4615900.0 178.29 178.29
RE DISCCART 452200.0 4615900.0 178.29 178.29
RE DISCCART 452300.0 4615900.0 178.29 178.29
RE DISCCART 452400.0 4615900.0 178.29 178.29
RE DISCCART 452500.0 4615900.0 178.29 178.29
RE DISCCART 452600.0 4615900.0 177.89 177.89
RE DISCCART 452700.0 4615900.0 176.99 176.99
RE DISCCART 452800.0 4615900.0 178.24 178.24
RE DISCCART 452900.0 4615900.0 178.29 178.29
RE DISCCART 453000.0 4615900.0 178.29 178.29
RE DISCCART 453100.0 4615900.0 178.45 178.45
RE DISCCART 453200.0 4615900.0 178.78 178.78
RE DISCCART 453300.0 4615900.0 179.08 179.08
RE DISCCART 453400.0 4615900.0 179.03 179.03

Phosphorus_2016_OTHER.DTA

RE DISCCART	453500.0	4615900.0	179.3	179.3
RE DISCCART	453600.0	4615900.0	179.59	179.59
RE DISCCART	453700.0	4615900.0	177.94	177.94
RE DISCCART	453800.0	4615900.0	177.79	177.79
RE DISCCART	453900.0	4615900.0	177.81	177.81
RE DISCCART	454000.0	4615900.0	175.38	175.38
RE DISCCART	454100.0	4615900.0	175.19	178.66
RE DISCCART	454200.0	4615900.0	178.22	178.22
RE DISCCART	454300.0	4615900.0	178.19	178.19
RE DISCCART	454400.0	4615900.0	178.19	178.19
RE DISCCART	454500.0	4615900.0	178.19	178.19
RE DISCCART	454600.0	4615900.0	178.19	178.19
RE DISCCART	454700.0	4615900.0	178.19	178.19
RE DISCCART	454800.0	4615900.0	178.19	178.19
RE DISCCART	454900.0	4615900.0	178.19	178.19
RE DISCCART	455000.0	4615900.0	178.19	178.19
RE DISCCART	455100.0	4615900.0	178.19	178.19
RE DISCCART	455200.0	4615900.0	178.19	178.19
RE DISCCART	455300.0	4615900.0	178.19	178.19
RE DISCCART	455400.0	4615900.0	178.19	178.19
RE DISCCART	455500.0	4615900.0	178.19	178.19
RE DISCCART	455600.0	4615900.0	178.19	178.19
RE DISCCART	455700.0	4615900.0	178.19	178.19
RE DISCCART	455800.0	4615900.0	178.19	178.19
RE DISCCART	455900.0	4615900.0	178.19	178.19
RE DISCCART	456000.0	4615900.0	178.19	178.19
RE DISCCART	456100.0	4615900.0	178.02	178.02
RE DISCCART	456200.0	4615900.0	178.19	178.19
RE DISCCART	456300.0	4615900.0	178.28	178.28
RE DISCCART	456400.0	4615900.0	178.33	178.33
RE DISCCART	456500.0	4615900.0	179.93	179.93
RE DISCCART	456600.0	4615900.0	179.18	183.16
RE DISCCART	452000.0	4616000.0	178.44	178.44
RE DISCCART	452100.0	4616000.0	178.29	178.29
RE DISCCART	452200.0	4616000.0	178.29	178.29
RE DISCCART	452300.0	4616000.0	178.29	178.29
RE DISCCART	452400.0	4616000.0	178.29	178.29
RE DISCCART	452500.0	4616000.0	178.29	178.29
RE DISCCART	452600.0	4616000.0	176.99	176.99
RE DISCCART	452700.0	4616000.0	176.99	176.99
RE DISCCART	452800.0	4616000.0	177.95	177.95
RE DISCCART	452900.0	4616000.0	177.18	177.18
RE DISCCART	453000.0	4616000.0	178.29	178.29
RE DISCCART	453100.0	4616000.0	178.45	178.45
RE DISCCART	453200.0	4616000.0	178.78	178.78
RE DISCCART	453300.0	4616000.0	179.1	179.1
RE DISCCART	453400.0	4616000.0	179.4	179.4
RE DISCCART	453500.0	4616000.0	179.68	179.68

Phosphorus_2016_OTHER.DTA

RE DISCCART	453600.0	4616000.0	179.95	179.95
RE DISCCART	453700.0	4616000.0	178.75	178.75
RE DISCCART	453800.0	4616000.0	178.76	178.76
RE DISCCART	453900.0	4616000.0	178.78	178.78
RE DISCCART	454000.0	4616000.0	175.19	175.19
RE DISCCART	454100.0	4616000.0	177.71	177.71
RE DISCCART	454200.0	4616000.0	178.25	178.25
RE DISCCART	454300.0	4616000.0	178.19	178.19
RE DISCCART	454400.0	4616000.0	178.19	178.19
RE DISCCART	454500.0	4616000.0	178.19	178.19
RE DISCCART	454600.0	4616000.0	178.19	178.19
RE DISCCART	454700.0	4616000.0	178.19	178.19
RE DISCCART	454800.0	4616000.0	178.19	178.19
RE DISCCART	454900.0	4616000.0	178.19	178.19
RE DISCCART	455000.0	4616000.0	178.19	178.19
RE DISCCART	455100.0	4616000.0	178.19	178.19
RE DISCCART	455200.0	4616000.0	178.19	178.19
RE DISCCART	455300.0	4616000.0	178.19	178.19
RE DISCCART	455400.0	4616000.0	178.19	178.19
RE DISCCART	455500.0	4616000.0	178.19	178.19
RE DISCCART	455600.0	4616000.0	178.19	178.19
RE DISCCART	455700.0	4616000.0	178.19	178.19
RE DISCCART	455800.0	4616000.0	178.19	178.19
RE DISCCART	455900.0	4616000.0	178.19	178.19
RE DISCCART	456000.0	4616000.0	178.19	178.19
RE DISCCART	456100.0	4616000.0	178.04	178.04
RE DISCCART	456200.0	4616000.0	178.2	178.2
RE DISCCART	456300.0	4616000.0	178.58	178.58
RE DISCCART	456400.0	4616000.0	178.22	178.22
RE DISCCART	456500.0	4616000.0	179.4	179.4
RE DISCCART	456600.0	4616000.0	179.78	182.42
RE DISCCART	452000.0	4616100.0	179.38	179.38
RE DISCCART	452100.0	4616100.0	178.29	178.29
RE DISCCART	452200.0	4616100.0	178.29	178.29
RE DISCCART	452300.0	4616100.0	178.29	178.29
RE DISCCART	452400.0	4616100.0	177.72	177.72
RE DISCCART	452500.0	4616100.0	177.71	177.71
RE DISCCART	452600.0	4616100.0	176.99	176.99
RE DISCCART	452700.0	4616100.0	177.57	177.57
RE DISCCART	452800.0	4616100.0	177.92	177.92
RE DISCCART	452900.0	4616100.0	178.1	178.1
RE DISCCART	453000.0	4616100.0	178.29	178.29
RE DISCCART	453100.0	4616100.0	178.35	178.35
RE DISCCART	453200.0	4616100.0	178.39	178.39
RE DISCCART	453300.0	4616100.0	178.46	178.46
RE DISCCART	453400.0	4616100.0	178.57	178.57
RE DISCCART	453500.0	4616100.0	179.71	179.71
RE DISCCART	453600.0	4616100.0	180.22	180.22

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RE DISCCART	453700.0	4616100.0	180.5	180.5
RE DISCCART	453800.0	4616100.0	180.33	180.33
RE DISCCART	453900.0	4616100.0	180.15	180.15
RE DISCCART	454000.0	4616100.0	175.19	175.19
RE DISCCART	454100.0	4616100.0	178.19	178.19
RE DISCCART	454200.0	4616100.0	178.19	178.19
RE DISCCART	454300.0	4616100.0	178.29	178.29
RE DISCCART	454400.0	4616100.0	178.19	178.19
RE DISCCART	454500.0	4616100.0	178.19	178.19
RE DISCCART	454600.0	4616100.0	178.19	178.19
RE DISCCART	454700.0	4616100.0	178.19	178.19
RE DISCCART	454800.0	4616100.0	178.19	178.19
RE DISCCART	454900.0	4616100.0	178.19	178.19
RE DISCCART	455000.0	4616100.0	178.19	178.19
RE DISCCART	455100.0	4616100.0	178.19	178.19
RE DISCCART	455200.0	4616100.0	178.19	178.19
RE DISCCART	455300.0	4616100.0	178.19	178.19
RE DISCCART	455400.0	4616100.0	178.38	178.38
RE DISCCART	455500.0	4616100.0	178.19	178.19
RE DISCCART	455600.0	4616100.0	178.19	178.19
RE DISCCART	455700.0	4616100.0	178.19	178.19
RE DISCCART	455800.0	4616100.0	178.19	178.19
RE DISCCART	455900.0	4616100.0	178.19	178.19
RE DISCCART	456000.0	4616100.0	178.19	178.19
RE DISCCART	456100.0	4616100.0	178.09	178.09
RE DISCCART	456200.0	4616100.0	178.27	178.27
RE DISCCART	456300.0	4616100.0	178.45	178.45
RE DISCCART	456400.0	4616100.0	178.37	178.37
RE DISCCART	456500.0	4616100.0	178.99	178.99
RE DISCCART	456600.0	4616100.0	180.69	180.69
RE DISCCART	452000.0	4616200.0	179.62	179.62
RE DISCCART	452100.0	4616200.0	178.64	178.64
RE DISCCART	452200.0	4616200.0	178.38	178.38
RE DISCCART	452300.0	4616200.0	178.29	178.29
RE DISCCART	452400.0	4616200.0	178.29	178.29
RE DISCCART	452500.0	4616200.0	178.31	178.31
RE DISCCART	452600.0	4616200.0	178.37	178.37
RE DISCCART	452700.0	4616200.0	178.31	178.31
RE DISCCART	452800.0	4616200.0	178.29	178.29
RE DISCCART	452900.0	4616200.0	178.29	178.29
RE DISCCART	453000.0	4616200.0	178.29	178.29
RE DISCCART	453100.0	4616200.0	178.29	178.29
RE DISCCART	453200.0	4616200.0	178.29	178.29
RE DISCCART	453300.0	4616200.0	178.29	178.29
RE DISCCART	453400.0	4616200.0	178.29	178.29
RE DISCCART	453500.0	4616200.0	179.7	179.7
RE DISCCART	453600.0	4616200.0	180.18	180.18
RE DISCCART	453700.0	4616200.0	180.09	180.09

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RE DISCCART 453800.0 4616200.0 178.5 178.5
RE DISCCART 453900.0 4616200.0 177.6 177.6
RE DISCCART 454000.0 4616200.0 176.12 177.72
RE DISCCART 454100.0 4616200.0 178.19 178.19
RE DISCCART 454200.0 4616200.0 178.19 178.19
RE DISCCART 454300.0 4616200.0 178.2 178.2
RE DISCCART 454400.0 4616200.0 178.3 178.3
RE DISCCART 454500.0 4616200.0 178.19 178.19
RE DISCCART 454600.0 4616200.0 178.19 178.19
RE DISCCART 454700.0 4616200.0 178.19 178.19
RE DISCCART 454800.0 4616200.0 178.19 178.19
RE DISCCART 454900.0 4616200.0 178.19 178.19
RE DISCCART 455000.0 4616200.0 178.19 178.19
RE DISCCART 455100.0 4616200.0 178.19 178.19
RE DISCCART 455200.0 4616200.0 178.19 178.19
RE DISCCART 455300.0 4616200.0 178.19 178.19
RE DISCCART 455400.0 4616200.0 178.33 178.33
RE DISCCART 455500.0 4616200.0 178.31 178.31
RE DISCCART 455600.0 4616200.0 178.19 178.19
RE DISCCART 455700.0 4616200.0 178.19 178.19
RE DISCCART 455800.0 4616200.0 178.19 178.19
RE DISCCART 455900.0 4616200.0 178.19 178.19
RE DISCCART 456000.0 4616200.0 178.19 178.19
RE DISCCART 456100.0 4616200.0 178.11 178.11
RE DISCCART 456200.0 4616200.0 178.29 178.29
RE DISCCART 456300.0 4616200.0 178.48 178.48
RE DISCCART 456400.0 4616200.0 178.18 178.18
RE DISCCART 456500.0 4616200.0 178.91 178.91
RE DISCCART 456600.0 4616200.0 180.62 180.62
RE DISCCART 452000.0 4616300.0 179.43 179.43
RE DISCCART 452100.0 4616300.0 178.91 178.91
RE DISCCART 452200.0 4616300.0 178.5 178.5
RE DISCCART 452300.0 4616300.0 178.29 178.29
RE DISCCART 452400.0 4616300.0 178.48 178.48
RE DISCCART 452500.0 4616300.0 178.59 178.59
RE DISCCART 452600.0 4616300.0 178.69 178.69
RE DISCCART 452700.0 4616300.0 178.54 178.54
RE DISCCART 452800.0 4616300.0 178.49 178.49
RE DISCCART 452900.0 4616300.0 178.46 178.46
RE DISCCART 453000.0 4616300.0 178.29 178.29
RE DISCCART 453100.0 4616300.0 178.29 178.29
RE DISCCART 453200.0 4616300.0 178.29 178.29
RE DISCCART 453300.0 4616300.0 178.31 178.31
RE DISCCART 453400.0 4616300.0 178.32 178.32
RE DISCCART 453500.0 4616300.0 179.75 179.75
RE DISCCART 453600.0 4616300.0 178.46 178.46
RE DISCCART 453700.0 4616300.0 178.42 178.42
RE DISCCART 453800.0 4616300.0 178.36 178.36

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RE DISCCART	453900.0	4616300.0	178.37	178.37
RE DISCCART	454000.0	4616300.0	176.29	178.49
RE DISCCART	454100.0	4616300.0	178.19	178.19
RE DISCCART	454200.0	4616300.0	178.19	178.19
RE DISCCART	454300.0	4616300.0	178.19	178.19
RE DISCCART	454400.0	4616300.0	178.41	178.41
RE DISCCART	454500.0	4616300.0	178.22	178.22
RE DISCCART	454600.0	4616300.0	178.19	178.19
RE DISCCART	454700.0	4616300.0	178.19	178.19
RE DISCCART	454800.0	4616300.0	178.19	178.19
RE DISCCART	454900.0	4616300.0	178.19	178.19
RE DISCCART	455000.0	4616300.0	178.19	178.19
RE DISCCART	455100.0	4616300.0	178.19	178.19
RE DISCCART	455200.0	4616300.0	178.19	178.19
RE DISCCART	455300.0	4616300.0	178.19	178.19
RE DISCCART	455400.0	4616300.0	178.39	178.39
RE DISCCART	455500.0	4616300.0	178.45	178.45
RE DISCCART	455600.0	4616300.0	178.28	178.28
RE DISCCART	455700.0	4616300.0	178.19	178.19
RE DISCCART	455800.0	4616300.0	178.19	178.19
RE DISCCART	455900.0	4616300.0	178.19	178.19
RE DISCCART	456000.0	4616300.0	178.19	178.19
RE DISCCART	456100.0	4616300.0	178.27	178.27
RE DISCCART	456200.0	4616300.0	178.26	178.26
RE DISCCART	456300.0	4616300.0	178.36	178.36
RE DISCCART	456400.0	4616300.0	178.16	178.16
RE DISCCART	456500.0	4616300.0	179.46	179.46
RE DISCCART	456600.0	4616300.0	178.6	183.08
RE DISCCART	452000.0	4616400.0	179.2	179.2
RE DISCCART	452100.0	4616400.0	178.87	178.87
RE DISCCART	452200.0	4616400.0	178.45	178.45
RE DISCCART	452300.0	4616400.0	178.29	178.29
RE DISCCART	452400.0	4616400.0	178.59	178.59
RE DISCCART	452500.0	4616400.0	178.8	178.8
RE DISCCART	452600.0	4616400.0	178.84	178.84
RE DISCCART	452700.0	4616400.0	178.86	178.86
RE DISCCART	452800.0	4616400.0	178.91	178.91
RE DISCCART	452900.0	4616400.0	178.64	178.64
RE DISCCART	453000.0	4616400.0	178.29	178.29
RE DISCCART	453100.0	4616400.0	178.29	178.29
RE DISCCART	453200.0	4616400.0	178.5	178.5
RE DISCCART	453300.0	4616400.0	178.83	178.83
RE DISCCART	453400.0	4616400.0	179.19	179.19
RE DISCCART	453500.0	4616400.0	179.76	179.76
RE DISCCART	453600.0	4616400.0	179.88	179.88
RE DISCCART	453700.0	4616400.0	179.48	179.48
RE DISCCART	453800.0	4616400.0	179.42	179.42
RE DISCCART	453900.0	4616400.0	179.17	179.17

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RE DISCCART	454000.0	4616400.0	175.19	175.19
RE DISCCART	454100.0	4616400.0	178.19	178.19
RE DISCCART	454200.0	4616400.0	178.19	178.19
RE DISCCART	454300.0	4616400.0	178.19	178.19
RE DISCCART	454400.0	4616400.0	178.46	178.46
RE DISCCART	454500.0	4616400.0	178.37	178.37
RE DISCCART	454600.0	4616400.0	178.19	178.19
RE DISCCART	454700.0	4616400.0	178.19	178.19
RE DISCCART	454800.0	4616400.0	178.19	178.19
RE DISCCART	454900.0	4616400.0	178.19	178.19
RE DISCCART	455000.0	4616400.0	178.19	178.19
RE DISCCART	455100.0	4616400.0	178.19	178.19
RE DISCCART	455200.0	4616400.0	178.19	178.19
RE DISCCART	455300.0	4616400.0	178.19	178.19
RE DISCCART	455400.0	4616400.0	178.39	178.39
RE DISCCART	455500.0	4616400.0	178.61	178.61
RE DISCCART	455600.0	4616400.0	178.55	178.55
RE DISCCART	455700.0	4616400.0	178.28	178.28
RE DISCCART	455800.0	4616400.0	178.19	178.19
RE DISCCART	455900.0	4616400.0	178.19	178.19
RE DISCCART	456000.0	4616400.0	178.19	178.19
RE DISCCART	456100.0	4616400.0	178.5	178.5
RE DISCCART	456200.0	4616400.0	178.33	178.33
RE DISCCART	456300.0	4616400.0	178.41	178.41
RE DISCCART	456400.0	4616400.0	178.57	178.57
RE DISCCART	456500.0	4616400.0	179.95	179.95
RE DISCCART	456600.0	4616400.0	179.89	183.68
RE DISCCART	452000.0	4616500.0	178.59	178.59
RE DISCCART	452100.0	4616500.0	178.78	178.78
RE DISCCART	452200.0	4616500.0	178.36	178.36
RE DISCCART	452300.0	4616500.0	178.35	178.35
RE DISCCART	452400.0	4616500.0	178.64	178.64
RE DISCCART	452500.0	4616500.0	179.01	179.01
RE DISCCART	452600.0	4616500.0	179.02	179.02
RE DISCCART	452700.0	4616500.0	179.19	179.19
RE DISCCART	452800.0	4616500.0	179.33	179.33
RE DISCCART	452900.0	4616500.0	179.1	179.1
RE DISCCART	453000.0	4616500.0	178.47	178.47
RE DISCCART	453100.0	4616500.0	178.31	178.31
RE DISCCART	453200.0	4616500.0	178.49	178.49
RE DISCCART	453300.0	4616500.0	178.89	178.89
RE DISCCART	453400.0	4616500.0	179.31	179.31
RE DISCCART	453500.0	4616500.0	179.76	179.76
RE DISCCART	453600.0	4616500.0	180.08	180.08
RE DISCCART	453700.0	4616500.0	180.15	180.15
RE DISCCART	453800.0	4616500.0	180.13	180.13
RE DISCCART	453900.0	4616500.0	180.25	180.25
RE DISCCART	454000.0	4616500.0	178.75	179.84

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RE DISCCART 454100.0 4616500.0 176. 176.
RE DISCCART 454200.0 4616500.0 178.19 178.19
RE DISCCART 454300.0 4616500.0 178.19 178.19
RE DISCCART 454400.0 4616500.0 178.45 178.45
RE DISCCART 454500.0 4616500.0 178.5 178.5
RE DISCCART 454600.0 4616500.0 178.19 178.19
RE DISCCART 454700.0 4616500.0 178.19 178.19
RE DISCCART 454800.0 4616500.0 178.19 178.19
RE DISCCART 454900.0 4616500.0 178.19 178.19
RE DISCCART 455000.0 4616500.0 178.19 178.19
RE DISCCART 455100.0 4616500.0 178.19 178.19
RE DISCCART 455200.0 4616500.0 178.36 178.36
RE DISCCART 455300.0 4616500.0 178.29 178.29
RE DISCCART 455400.0 4616500.0 178.52 178.52
RE DISCCART 455500.0 4616500.0 178.78 178.78
RE DISCCART 455600.0 4616500.0 178.84 178.84
RE DISCCART 455700.0 4616500.0 178.52 178.52
RE DISCCART 455800.0 4616500.0 178.22 178.22
RE DISCCART 455900.0 4616500.0 178.23 178.23
RE DISCCART 456000.0 4616500.0 178.19 178.19
RE DISCCART 456100.0 4616500.0 178.33 178.33
RE DISCCART 456200.0 4616500.0 178.21 178.21
RE DISCCART 456300.0 4616500.0 178.06 178.06
RE DISCCART 456400.0 4616500.0 178.04 178.04
RE DISCCART 456500.0 4616500.0 180.46 183.14
RE DISCCART 456600.0 4616500.0 179.28 183.56
RE DISCCART 452000.0 4616600.0 178.2 178.2
RE DISCCART 452100.0 4616600.0 178.69 178.69
RE DISCCART 452200.0 4616600.0 178.31 178.31
RE DISCCART 452300.0 4616600.0 178.39 178.39
RE DISCCART 452400.0 4616600.0 178.7 178.7
RE DISCCART 452500.0 4616600.0 178.95 178.95
RE DISCCART 452600.0 4616600.0 179.15 179.15
RE DISCCART 452700.0 4616600.0 179.37 179.37
RE DISCCART 452800.0 4616600.0 179.58 179.58
RE DISCCART 452900.0 4616600.0 179.64 179.64
RE DISCCART 453000.0 4616600.0 178.79 178.79
RE DISCCART 453100.0 4616600.0 178.29 178.29
RE DISCCART 453200.0 4616600.0 178.46 178.46
RE DISCCART 453300.0 4616600.0 178.79 178.79
RE DISCCART 453400.0 4616600.0 179.29 179.29
RE DISCCART 453500.0 4616600.0 179.75 179.75
RE DISCCART 453600.0 4616600.0 180.04 180.04
RE DISCCART 453700.0 4616600.0 180.32 180.32
RE DISCCART 453800.0 4616600.0 180.02 180.02
RE DISCCART 453900.0 4616600.0 178.48 178.48
RE DISCCART 454000.0 4616600.0 178.27 178.27
RE DISCCART 454100.0 4616600.0 175.49 175.49

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RE DISCCART 454200.0 4616600.0 175.19 175.19
RE DISCCART 454300.0 4616600.0 178.06 178.06
RE DISCCART 454400.0 4616600.0 178.2 178.2
RE DISCCART 454500.0 4616600.0 178.55 178.55
RE DISCCART 454600.0 4616600.0 178.37 178.37
RE DISCCART 454700.0 4616600.0 178.19 178.19
RE DISCCART 454800.0 4616600.0 178.19 178.19
RE DISCCART 454900.0 4616600.0 178.21 178.21
RE DISCCART 455000.0 4616600.0 178.19 178.19
RE DISCCART 455100.0 4616600.0 178.19 178.19
RE DISCCART 455200.0 4616600.0 178.29 178.29
RE DISCCART 455300.0 4616600.0 178.61 178.61
RE DISCCART 455400.0 4616600.0 178.65 178.65
RE DISCCART 455500.0 4616600.0 178.82 178.82
RE DISCCART 455600.0 4616600.0 179. 179.
RE DISCCART 455700.0 4616600.0 178.7 178.7
RE DISCCART 455800.0 4616600.0 178.49 178.49
RE DISCCART 455900.0 4616600.0 178.44 178.44
RE DISCCART 456000.0 4616600.0 178.19 178.19
RE DISCCART 456100.0 4616600.0 178.32 178.32
RE DISCCART 456200.0 4616600.0 178.43 178.43
RE DISCCART 456300.0 4616600.0 178.27 178.27
RE DISCCART 456400.0 4616600.0 178.04 178.04
RE DISCCART 456500.0 4616600.0 180.61 184.67
RE DISCCART 456600.0 4616600.0 178.25 184.89
RE DISCCART 452000.0 4616700.0 178.97 178.97
RE DISCCART 452100.0 4616700.0 178.7 178.7
RE DISCCART 452200.0 4616700.0 178.29 178.29
RE DISCCART 452300.0 4616700.0 178.47 178.47
RE DISCCART 452400.0 4616700.0 178.81 178.81
RE DISCCART 452500.0 4616700.0 179.04 179.04
RE DISCCART 452600.0 4616700.0 179.27 179.27
RE DISCCART 452700.0 4616700.0 179.49 179.49
RE DISCCART 452800.0 4616700.0 179.69 179.69
RE DISCCART 452900.0 4616700.0 179.43 179.43
RE DISCCART 453000.0 4616700.0 178.76 178.76
RE DISCCART 453100.0 4616700.0 178.29 178.29
RE DISCCART 453200.0 4616700.0 178.39 178.39
RE DISCCART 453300.0 4616700.0 178.62 178.62
RE DISCCART 453400.0 4616700.0 179.12 179.12
RE DISCCART 453500.0 4616700.0 179.64 179.64
RE DISCCART 453600.0 4616700.0 179.88 179.88
RE DISCCART 453700.0 4616700.0 180.3 180.3
RE DISCCART 453800.0 4616700.0 180.02 180.02
RE DISCCART 453900.0 4616700.0 178.2 178.2
RE DISCCART 454000.0 4616700.0 178.19 178.19
RE DISCCART 454100.0 4616700.0 178.26 178.26
RE DISCCART 454200.0 4616700.0 178.71 178.71

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RE DISCCART	454300.0	4616700.0	175.55	175.55
RE DISCCART	454400.0	4616700.0	175.19	175.19
RE DISCCART	454500.0	4616700.0	178.32	178.32
RE DISCCART	454600.0	4616700.0	178.52	178.52
RE DISCCART	454700.0	4616700.0	178.31	178.31
RE DISCCART	454800.0	4616700.0	178.19	178.19
RE DISCCART	454900.0	4616700.0	178.37	178.37
RE DISCCART	455000.0	4616700.0	178.21	178.21
RE DISCCART	455100.0	4616700.0	178.19	178.19
RE DISCCART	455200.0	4616700.0	178.2	178.2
RE DISCCART	455300.0	4616700.0	178.65	178.65
RE DISCCART	455400.0	4616700.0	178.8	178.8
RE DISCCART	455500.0	4616700.0	179.04	179.04
RE DISCCART	455600.0	4616700.0	179.15	179.15
RE DISCCART	455700.0	4616700.0	178.93	178.93
RE DISCCART	455800.0	4616700.0	178.72	178.72
RE DISCCART	455900.0	4616700.0	178.29	178.29
RE DISCCART	456000.0	4616700.0	178.19	178.19
RE DISCCART	456100.0	4616700.0	178.18	178.18
RE DISCCART	456200.0	4616700.0	178.38	178.38
RE DISCCART	456300.0	4616700.0	178.24	178.24
RE DISCCART	456400.0	4616700.0	177.87	177.87
RE DISCCART	456500.0	4616700.0	178.37	178.37
RE DISCCART	456600.0	4616700.0	178.65	178.65
RE DISCCART	452000.0	4616800.0	179.14	179.14
RE DISCCART	452100.0	4616800.0	178.59	178.59
RE DISCCART	452200.0	4616800.0	178.29	178.29
RE DISCCART	452300.0	4616800.0	178.56	178.56
RE DISCCART	452400.0	4616800.0	178.89	178.89
RE DISCCART	452500.0	4616800.0	179.16	179.16
RE DISCCART	452600.0	4616800.0	179.41	179.41
RE DISCCART	452700.0	4616800.0	179.68	179.68
RE DISCCART	452800.0	4616800.0	179.63	179.63
RE DISCCART	452900.0	4616800.0	179.31	179.31
RE DISCCART	453000.0	4616800.0	178.79	178.79
RE DISCCART	453100.0	4616800.0	178.58	178.58
RE DISCCART	453200.0	4616800.0	178.29	178.29
RE DISCCART	453300.0	4616800.0	178.45	178.45
RE DISCCART	453400.0	4616800.0	178.89	178.89
RE DISCCART	453500.0	4616800.0	179.42	179.42
RE DISCCART	453600.0	4616800.0	179.82	179.82
RE DISCCART	453700.0	4616800.0	180.06	180.06
RE DISCCART	453800.0	4616800.0	178.96	178.96
RE DISCCART	453900.0	4616800.0	178.28	178.28
RE DISCCART	454000.0	4616800.0	178.17	178.17
RE DISCCART	454100.0	4616800.0	178.18	178.18
RE DISCCART	454200.0	4616800.0	178.22	178.22
RE DISCCART	454300.0	4616800.0	178.18	178.18

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RE DISCCART	454400.0	4616800.0	179.12	179.12
RE DISCCART	454500.0	4616800.0	175.19	178.46
RE DISCCART	454600.0	4616800.0	179.02	179.02
RE DISCCART	454700.0	4616800.0	179.08	179.08
RE DISCCART	454800.0	4616800.0	178.19	178.19
RE DISCCART	454900.0	4616800.0	178.35	178.35
RE DISCCART	455000.0	4616800.0	178.41	178.41
RE DISCCART	455100.0	4616800.0	178.19	178.19
RE DISCCART	455200.0	4616800.0	178.2	178.2
RE DISCCART	455300.0	4616800.0	178.54	178.54
RE DISCCART	455400.0	4616800.0	178.88	178.88
RE DISCCART	455500.0	4616800.0	179.11	179.11
RE DISCCART	455600.0	4616800.0	179.28	179.28
RE DISCCART	455700.0	4616800.0	179.11	179.11
RE DISCCART	455800.0	4616800.0	178.95	178.95
RE DISCCART	455900.0	4616800.0	178.45	178.45
RE DISCCART	456000.0	4616800.0	178.19	178.19
RE DISCCART	456100.0	4616800.0	178.26	178.26
RE DISCCART	456200.0	4616800.0	178.6	178.6
RE DISCCART	456300.0	4616800.0	178.44	178.44
RE DISCCART	456400.0	4616800.0	178.12	178.12
RE DISCCART	456500.0	4616800.0	178.7	178.7
RE DISCCART	456600.0	4616800.0	178.86	178.86
RE DISCCART	452000.0	4616900.0	178.85	178.85
RE DISCCART	452100.0	4616900.0	178.4	178.4
RE DISCCART	452200.0	4616900.0	178.32	178.32
RE DISCCART	452300.0	4616900.0	178.7	178.7
RE DISCCART	452400.0	4616900.0	179.	179.
RE DISCCART	452500.0	4616900.0	179.31	179.31
RE DISCCART	452600.0	4616900.0	179.58	179.58
RE DISCCART	452700.0	4616900.0	179.69	179.69
RE DISCCART	452800.0	4616900.0	179.48	179.48
RE DISCCART	452900.0	4616900.0	179.18	179.18
RE DISCCART	453000.0	4616900.0	179.08	179.08
RE DISCCART	453100.0	4616900.0	178.67	178.67
RE DISCCART	453200.0	4616900.0	178.34	178.34
RE DISCCART	453300.0	4616900.0	178.31	178.31
RE DISCCART	453400.0	4616900.0	178.67	178.67
RE DISCCART	453500.0	4616900.0	178.78	178.78
RE DISCCART	453600.0	4616900.0	179.27	179.27
RE DISCCART	453700.0	4616900.0	178.24	178.24
RE DISCCART	453800.0	4616900.0	178.19	178.19
RE DISCCART	453900.0	4616900.0	178.19	178.19
RE DISCCART	454000.0	4616900.0	178.2	178.2
RE DISCCART	454100.0	4616900.0	178.19	178.19
RE DISCCART	454200.0	4616900.0	178.19	178.19
RE DISCCART	454300.0	4616900.0	178.2	178.2
RE DISCCART	454400.0	4616900.0	178.35	178.35

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RE DISCCART 454500.0 4616900.0 180.77 182.17
RE DISCCART 454600.0 4616900.0 176.26 182.22
RE DISCCART 454700.0 4616900.0 179.53 179.53
RE DISCCART 454800.0 4616900.0 178.19 178.19
RE DISCCART 454900.0 4616900.0 178.19 178.19
RE DISCCART 455000.0 4616900.0 178.33 178.33
RE DISCCART 455100.0 4616900.0 178.22 178.22
RE DISCCART 455200.0 4616900.0 178.2 178.2
RE DISCCART 455300.0 4616900.0 178.61 178.61
RE DISCCART 455400.0 4616900.0 178.77 178.77
RE DISCCART 455500.0 4616900.0 179.2 179.2
RE DISCCART 455600.0 4616900.0 179.39 179.39
RE DISCCART 455700.0 4616900.0 179.21 179.21
RE DISCCART 455800.0 4616900.0 179.06 179.06
RE DISCCART 455900.0 4616900.0 178.52 178.52
RE DISCCART 456000.0 4616900.0 178.32 178.32
RE DISCCART 456100.0 4616900.0 178.86 178.86
RE DISCCART 456200.0 4616900.0 179.3 179.3
RE DISCCART 456300.0 4616900.0 179.34 179.34
RE DISCCART 456400.0 4616900.0 179.1 179.1
RE DISCCART 456500.0 4616900.0 179.26 179.26
RE DISCCART 456600.0 4616900.0 178.74 178.74
RE DISCCART 452000.0 4617000.0 178.3 178.3
RE DISCCART 452100.0 4617000.0 178.29 178.29
RE DISCCART 452200.0 4617000.0 178.56 178.56
RE DISCCART 452300.0 4617000.0 178.88 178.88
RE DISCCART 452400.0 4617000.0 179.19 179.19
RE DISCCART 452500.0 4617000.0 179.49 179.49
RE DISCCART 452600.0 4617000.0 179.69 179.69
RE DISCCART 452700.0 4617000.0 179.6 179.6
RE DISCCART 452800.0 4617000.0 179.39 179.39
RE DISCCART 452900.0 4617000.0 179.34 179.34
RE DISCCART 453000.0 4617000.0 179.02 179.02
RE DISCCART 453100.0 4617000.0 178.61 178.61
RE DISCCART 453200.0 4617000.0 178.37 178.37
RE DISCCART 453300.0 4617000.0 178.29 178.29
RE DISCCART 453400.0 4617000.0 178.56 178.56
RE DISCCART 453500.0 4617000.0 178.2 178.2
RE DISCCART 453600.0 4617000.0 178.91 178.91
RE DISCCART 453700.0 4617000.0 179.07 179.07
RE DISCCART 453800.0 4617000.0 178.51 178.51
RE DISCCART 453900.0 4617000.0 178.21 178.21
RE DISCCART 454000.0 4617000.0 178.2 178.2
RE DISCCART 454100.0 4617000.0 178.21 178.21
RE DISCCART 454200.0 4617000.0 178.22 178.22
RE DISCCART 454300.0 4617000.0 178.72 178.72
RE DISCCART 454400.0 4617000.0 179.7 179.7
RE DISCCART 454500.0 4617000.0 178.56 178.56

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RE DISCCART	454600.0	4617000.0	175.19	175.19
RE DISCCART	454700.0	4617000.0	178.58	178.58
RE DISCCART	454800.0	4617000.0	178.19	178.19
RE DISCCART	454900.0	4617000.0	178.19	178.19
RE DISCCART	455000.0	4617000.0	178.22	178.22
RE DISCCART	455100.0	4617000.0	178.41	178.41
RE DISCCART	455200.0	4617000.0	178.69	178.69
RE DISCCART	455300.0	4617000.0	178.7	178.7
RE DISCCART	455400.0	4617000.0	178.8	178.8
RE DISCCART	455500.0	4617000.0	179.11	179.11
RE DISCCART	455600.0	4617000.0	179.41	179.41
RE DISCCART	455700.0	4617000.0	179.34	179.34
RE DISCCART	455800.0	4617000.0	179.09	179.09
RE DISCCART	455900.0	4617000.0	178.72	178.72
RE DISCCART	456000.0	4617000.0	178.32	178.32
RE DISCCART	456100.0	4617000.0	178.64	178.64
RE DISCCART	456200.0	4617000.0	178.74	178.74
RE DISCCART	456300.0	4617000.0	179.47	186.69
RE DISCCART	456400.0	4617000.0	179.52	179.52
RE DISCCART	456500.0	4617000.0	179.55	179.55
RE DISCCART	456600.0	4617000.0	179.13	179.13
RE DISCCART	452000.0	4617100.0	178.87	178.87
RE DISCCART	452100.0	4617100.0	178.6	178.6
RE DISCCART	452200.0	4617100.0	178.95	178.95
RE DISCCART	452300.0	4617100.0	179.13	179.13
RE DISCCART	452400.0	4617100.0	179.38	179.38
RE DISCCART	452500.0	4617100.0	179.65	179.65
RE DISCCART	452600.0	4617100.0	179.68	179.68
RE DISCCART	452700.0	4617100.0	179.49	179.49
RE DISCCART	452800.0	4617100.0	179.39	179.39
RE DISCCART	452900.0	4617100.0	179.22	179.22
RE DISCCART	453000.0	4617100.0	178.81	178.81
RE DISCCART	453100.0	4617100.0	178.58	178.58
RE DISCCART	453200.0	4617100.0	178.54	178.54
RE DISCCART	453300.0	4617100.0	178.29	178.29
RE DISCCART	453400.0	4617100.0	178.45	178.45
RE DISCCART	453500.0	4617100.0	178.21	178.21
RE DISCCART	453600.0	4617100.0	178.49	178.49
RE DISCCART	453700.0	4617100.0	178.87	178.87
RE DISCCART	453800.0	4617100.0	178.7	178.7
RE DISCCART	453900.0	4617100.0	178.49	178.49
RE DISCCART	454000.0	4617100.0	178.19	178.19
RE DISCCART	454100.0	4617100.0	178.16	178.16
RE DISCCART	454200.0	4617100.0	178.42	178.42
RE DISCCART	454300.0	4617100.0	178.95	178.95
RE DISCCART	454400.0	4617100.0	179.13	179.13
RE DISCCART	454500.0	4617100.0	178.28	178.28
RE DISCCART	454600.0	4617100.0	175.19	175.19

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RE DISCCART 454700.0 4617100.0 178.19 178.19
RE DISCCART 454800.0 4617100.0 178.2 178.2
RE DISCCART 454900.0 4617100.0 178.19 178.19
RE DISCCART 455000.0 4617100.0 178.19 178.19
RE DISCCART 455100.0 4617100.0 178.37 178.37
RE DISCCART 455200.0 4617100.0 178.76 178.76
RE DISCCART 455300.0 4617100.0 179.04 179.04
RE DISCCART 455400.0 4617100.0 179.16 179.16
RE DISCCART 455500.0 4617100.0 179.29 179.29
RE DISCCART 455600.0 4617100.0 179.39 179.39
RE DISCCART 455700.0 4617100.0 179.4 179.4
RE DISCCART 455800.0 4617100.0 179.11 179.11
RE DISCCART 455900.0 4617100.0 178.95 178.95
RE DISCCART 456000.0 4617100.0 178.38 178.38
RE DISCCART 456100.0 4617100.0 178.58 178.58
RE DISCCART 456200.0 4617100.0 178.66 187.12
RE DISCCART 456300.0 4617100.0 181.14 187.12
RE DISCCART 456400.0 4617100.0 179.17 179.17
RE DISCCART 456500.0 4617100.0 179.64 179.64
RE DISCCART 456600.0 4617100.0 180.14 180.14
RE DISCCART 452000.0 4617200.0 179.33 179.33
RE DISCCART 452100.0 4617200.0 179.12 179.12
RE DISCCART 452200.0 4617200.0 179.3 179.3
RE DISCCART 452300.0 4617200.0 179.4 179.4
RE DISCCART 452400.0 4617200.0 179.55 179.55
RE DISCCART 452500.0 4617200.0 179.69 179.69
RE DISCCART 452600.0 4617200.0 179.59 179.59
RE DISCCART 452700.0 4617200.0 179.59 179.59
RE DISCCART 452800.0 4617200.0 179.36 179.36
RE DISCCART 452900.0 4617200.0 179.11 179.11
RE DISCCART 453000.0 4617200.0 179. 179.
RE DISCCART 453100.0 4617200.0 178.71 178.71
RE DISCCART 453200.0 4617200.0 178.37 178.37
RE DISCCART 453300.0 4617200.0 178.35 178.35
RE DISCCART 453400.0 4617200.0 178.77 178.77
RE DISCCART 453500.0 4617200.0 178.19 178.19
RE DISCCART 453600.0 4617200.0 178.35 178.35
RE DISCCART 453700.0 4617200.0 178.73 178.73
RE DISCCART 453800.0 4617200.0 178.73 178.73
RE DISCCART 453900.0 4617200.0 178.4 178.4
RE DISCCART 454000.0 4617200.0 176.92 176.92
RE DISCCART 454100.0 4617200.0 176.84 176.84
RE DISCCART 454200.0 4617200.0 176.92 176.92
RE DISCCART 454300.0 4617200.0 177.04 177.04
RE DISCCART 454400.0 4617200.0 177.07 177.07
RE DISCCART 454500.0 4617200.0 176.83 176.83
RE DISCCART 454600.0 4617200.0 175.19 175.19
RE DISCCART 454700.0 4617200.0 178.19 178.19

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RE DISCCART 454800.0 4617200.0 178.19 178.19
RE DISCCART 454900.0 4617200.0 178.19 178.19
RE DISCCART 455000.0 4617200.0 178.19 178.19
RE DISCCART 455100.0 4617200.0 178.21 178.21
RE DISCCART 455200.0 4617200.0 178.78 178.78
RE DISCCART 455300.0 4617200.0 179.17 179.17
RE DISCCART 455400.0 4617200.0 179.32 179.32
RE DISCCART 455500.0 4617200.0 179.55 179.55
RE DISCCART 455600.0 4617200.0 179.58 179.58
RE DISCCART 455700.0 4617200.0 179.5 179.5
RE DISCCART 455800.0 4617200.0 179.36 179.36
RE DISCCART 455900.0 4617200.0 179.13 179.13
RE DISCCART 456000.0 4617200.0 178.45 178.45
RE DISCCART 456100.0 4617200.0 178.67 186.29
RE DISCCART 456200.0 4617200.0 184.82 186.47
RE DISCCART 456300.0 4617200.0 180.47 180.47
RE DISCCART 456400.0 4617200.0 179.5 179.5
RE DISCCART 456500.0 4617200.0 180.65 180.65
RE DISCCART 456600.0 4617200.0 179.3 179.3
RE DISCCART 452000.0 4617300.0 180.38 180.38
RE DISCCART 452100.0 4617300.0 180.24 180.24
RE DISCCART 452200.0 4617300.0 179.66 179.66
RE DISCCART 452300.0 4617300.0 179.57 179.57
RE DISCCART 452400.0 4617300.0 179.69 179.69
RE DISCCART 452500.0 4617300.0 179.91 179.91
RE DISCCART 452600.0 4617300.0 179.99 179.99
RE DISCCART 452700.0 4617300.0 179.62 179.62
RE DISCCART 452800.0 4617300.0 179.49 179.49
RE DISCCART 452900.0 4617300.0 179.19 179.19
RE DISCCART 453000.0 4617300.0 178.8 178.8
RE DISCCART 453100.0 4617300.0 178.51 178.51
RE DISCCART 453200.0 4617300.0 178.34 178.34
RE DISCCART 453300.0 4617300.0 178.37 178.37
RE DISCCART 453400.0 4617300.0 179.31 179.31
RE DISCCART 453500.0 4617300.0 178.81 178.81
RE DISCCART 453600.0 4617300.0 178.62 178.62
RE DISCCART 453700.0 4617300.0 178.59 178.59
RE DISCCART 453800.0 4617300.0 178.29 178.29
RE DISCCART 453900.0 4617300.0 178.19 178.19
RE DISCCART 454000.0 4617300.0 178.28 178.28
RE DISCCART 454100.0 4617300.0 178.25 178.25
RE DISCCART 454200.0 4617300.0 178.19 178.19
RE DISCCART 454300.0 4617300.0 178.19 178.19
RE DISCCART 454400.0 4617300.0 178.19 178.19
RE DISCCART 454500.0 4617300.0 178.19 178.19
RE DISCCART 454600.0 4617300.0 175.19 175.19
RE DISCCART 454700.0 4617300.0 178.19 178.19
RE DISCCART 454800.0 4617300.0 178.19 178.19

Phosphorus_2016_OTHER.DTA

RE DISCCART	454900.0	4617300.0	178.19	178.19
RE DISCCART	455000.0	4617300.0	178.19	178.19
RE DISCCART	455100.0	4617300.0	178.19	178.19
RE DISCCART	455200.0	4617300.0	178.44	178.44
RE DISCCART	455300.0	4617300.0	178.92	178.92
RE DISCCART	455400.0	4617300.0	179.23	179.23
RE DISCCART	455500.0	4617300.0	179.49	179.49
RE DISCCART	455600.0	4617300.0	179.73	179.73
RE DISCCART	455700.0	4617300.0	179.7	179.7
RE DISCCART	455800.0	4617300.0	179.6	179.6
RE DISCCART	455900.0	4617300.0	179.35	179.35
RE DISCCART	456000.0	4617300.0	178.78	178.78
RE DISCCART	456100.0	4617300.0	182.07	182.07
RE DISCCART	456200.0	4617300.0	179.87	179.87
RE DISCCART	456300.0	4617300.0	179.81	179.81
RE DISCCART	456400.0	4617300.0	180.77	180.77
RE DISCCART	456500.0	4617300.0	179.43	179.43
RE DISCCART	456600.0	4617300.0	178.38	178.38
RE DISCCART	449000.0	4609000.0	183.39	183.39
RE DISCCART	449500.0	4609000.0	184.04	184.04
RE DISCCART	450000.0	4609000.0	184.29	184.29
RE DISCCART	450500.0	4609000.0	182.94	182.94
RE DISCCART	451000.0	4609000.0	180.31	180.31
RE DISCCART	451500.0	4609000.0	179.59	179.59
RE DISCCART	452000.0	4609000.0	179.19	179.19
RE DISCCART	452500.0	4609000.0	178.97	178.97
RE DISCCART	453000.0	4609000.0	178.38	178.38
RE DISCCART	453500.0	4609000.0	178.19	178.19
RE DISCCART	454000.0	4609000.0	178.19	178.19
RE DISCCART	454500.0	4609000.0	178.27	178.27
RE DISCCART	455000.0	4609000.0	178.85	178.85
RE DISCCART	455500.0	4609000.0	178.57	178.57
RE DISCCART	456000.0	4609000.0	178.11	178.11
RE DISCCART	456500.0	4609000.0	178.93	178.93
RE DISCCART	457000.0	4609000.0	179.27	179.27
RE DISCCART	457500.0	4609000.0	178.7	178.7
RE DISCCART	458000.0	4609000.0	178.44	178.44
RE DISCCART	458500.0	4609000.0	178.47	178.47
RE DISCCART	459000.0	4609000.0	178.65	178.65
RE DISCCART	459500.0	4609000.0	178.02	178.02
RE DISCCART	460000.0	4609000.0	178.48	178.48
RE DISCCART	449000.0	4609500.0	182.79	182.79
RE DISCCART	449500.0	4609500.0	183.99	183.99
RE DISCCART	450000.0	4609500.0	182.36	182.36
RE DISCCART	450500.0	4609500.0	179.44	179.44
RE DISCCART	451000.0	4609500.0	179.07	179.07
RE DISCCART	451500.0	4609500.0	178.52	178.52
RE DISCCART	452000.0	4609500.0	179.62	179.62

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RE DISCCART 452500.0 4609500.0 178.25 178.25
RE DISCCART 453000.0 4609500.0 178.19 178.19
RE DISCCART 453500.0 4609500.0 180.93 180.93
RE DISCCART 454000.0 4609500.0 178.19 178.19
RE DISCCART 454500.0 4609500.0 178.4 178.4
RE DISCCART 455000.0 4609500.0 178.19 178.19
RE DISCCART 455500.0 4609500.0 178.22 178.22
RE DISCCART 456000.0 4609500.0 178.42 178.42
RE DISCCART 456500.0 4609500.0 178.99 178.99
RE DISCCART 457000.0 4609500.0 178.92 178.92
RE DISCCART 457500.0 4609500.0 178.27 178.27
RE DISCCART 458000.0 4609500.0 179.36 179.36
RE DISCCART 458500.0 4609500.0 179.41 179.41
RE DISCCART 459000.0 4609500.0 179.02 179.02
RE DISCCART 459500.0 4609500.0 178.22 178.22
RE DISCCART 460000.0 4609500.0 178.54 178.54
RE DISCCART 449000.0 4610000.0 183.07 183.07
RE DISCCART 449500.0 4610000.0 181.97 181.97
RE DISCCART 450000.0 4610000.0 180.16 180.16
RE DISCCART 450500.0 4610000.0 179.64 179.64
RE DISCCART 451000.0 4610000.0 179. 179.
RE DISCCART 451500.0 4610000.0 179.29 179.29
RE DISCCART 452000.0 4610000.0 176.99 176.99
RE DISCCART 452500.0 4610000.0 180.55 221.91
RE DISCCART 453000.0 4610000.0 176.99 221.91
RE DISCCART 453500.0 4610000.0 178.72 178.72
RE DISCCART 454000.0 4610000.0 178.19 178.19
RE DISCCART 454500.0 4610000.0 178.19 178.19
RE DISCCART 455000.0 4610000.0 178.4 178.4
RE DISCCART 455500.0 4610000.0 178.19 178.19
RE DISCCART 456000.0 4610000.0 178.48 178.48
RE DISCCART 456500.0 4610000.0 178.53 178.53
RE DISCCART 457000.0 4610000.0 178.43 178.43
RE DISCCART 457500.0 4610000.0 177.87 177.87
RE DISCCART 458000.0 4610000.0 178.05 178.05
RE DISCCART 458500.0 4610000.0 178.35 178.35
RE DISCCART 459000.0 4610000.0 178.33 178.33
RE DISCCART 459500.0 4610000.0 179.39 179.39
RE DISCCART 460000.0 4610000.0 178.51 178.51
RE DISCCART 449000.0 4610500.0 182.7 182.7
RE DISCCART 449500.0 4610500.0 179.77 179.77
RE DISCCART 450000.0 4610500.0 178.81 183.91
RE DISCCART 450500.0 4610500.0 180.53 197.07
RE DISCCART 451000.0 4610500.0 178.61 178.61
RE DISCCART 451500.0 4610500.0 178.49 178.49
RE DISCCART 452000.0 4610500.0 180.65 180.65
RE DISCCART 452500.0 4610500.0 178.06 221.91
RE DISCCART 453000.0 4610500.0 178.46 221.91

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RE DISCCART 453500.0 4610500.0 178.48 178.48
RE DISCCART 454000.0 4610500.0 178.19 178.19
RE DISCCART 454500.0 4610500.0 178.28 178.28
RE DISCCART 455000.0 4610500.0 179.05 179.05
RE DISCCART 455500.0 4610500.0 178.19 178.19
RE DISCCART 456000.0 4610500.0 177.67 177.67
RE DISCCART 456500.0 4610500.0 178.31 178.31
RE DISCCART 457000.0 4610500.0 178.1 178.1
RE DISCCART 457500.0 4610500.0 179.27 179.27
RE DISCCART 458000.0 4610500.0 177.49 177.49
RE DISCCART 458500.0 4610500.0 178.63 178.63
RE DISCCART 459000.0 4610500.0 176.33 176.33
RE DISCCART 459500.0 4610500.0 178.92 178.92
RE DISCCART 460000.0 4610500.0 178.62 178.62
RE DISCCART 449000.0 4611000.0 180.32 180.32
RE DISCCART 449500.0 4611000.0 178.27 178.27
RE DISCCART 450000.0 4611000.0 176.99 176.99
RE DISCCART 450500.0 4611000.0 176.99 198.94
RE DISCCART 451000.0 4611000.0 182.81 185.06
RE DISCCART 451500.0 4611000.0 178.47 178.47
RE DISCCART 452000.0 4611000.0 195.12 196.88
RE DISCCART 452500.0 4611000.0 179.48 179.48
RE DISCCART 453000.0 4611000.0 176.99 176.99
RE DISCCART 453500.0 4611000.0 178.19 178.19
RE DISCCART 454000.0 4611000.0 178.19 178.19
RE DISCCART 454500.0 4611000.0 178.61 178.61
RE DISCCART 455000.0 4611000.0 178.19 178.19
RE DISCCART 455500.0 4611000.0 178.19 178.19
RE DISCCART 456000.0 4611000.0 178.7 178.7
RE DISCCART 456500.0 4611000.0 177.96 177.96
RE DISCCART 457000.0 4611000.0 178.59 178.59
RE DISCCART 457500.0 4611000.0 178.8 178.8
RE DISCCART 458000.0 4611000.0 178.78 178.78
RE DISCCART 458500.0 4611000.0 178.95 178.95
RE DISCCART 459000.0 4611000.0 178.27 178.27
RE DISCCART 459500.0 4611000.0 179.87 179.87
RE DISCCART 460000.0 4611000.0 178.26 178.26
RE DISCCART 449000.0 4611500.0 179.88 179.88
RE DISCCART 449500.0 4611500.0 179.05 179.05
RE DISCCART 450000.0 4611500.0 178.6 178.6
RE DISCCART 450500.0 4611500.0 178.39 178.39
RE DISCCART 451000.0 4611500.0 178.09 178.09
RE DISCCART 451500.0 4611500.0 180.6 225.36
RE DISCCART 452000.0 4611500.0 211.82 211.82
RE DISCCART 452500.0 4611500.0 179. 179.
RE DISCCART 453000.0 4611500.0 178.19 178.19
RE DISCCART 453500.0 4611500.0 178.19 178.19
RE DISCCART 454000.0 4611500.0 180.79 180.79

Phosphorus_2016_OTHER.DTA

RE DISCCART	454500.0	4611500.0	178.45	178.45
RE DISCCART	455000.0	4611500.0	178.19	178.19
RE DISCCART	455500.0	4611500.0	178.61	178.61
RE DISCCART	456000.0	4611500.0	179.87	179.87
RE DISCCART	456500.0	4611500.0	178.66	178.66
RE DISCCART	457000.0	4611500.0	178.36	178.36
RE DISCCART	457500.0	4611500.0	178.23	178.23
RE DISCCART	458000.0	4611500.0	179.4	179.4
RE DISCCART	458500.0	4611500.0	179.85	179.85
RE DISCCART	459000.0	4611500.0	179.46	179.46
RE DISCCART	459500.0	4611500.0	179.19	179.19
RE DISCCART	460000.0	4611500.0	179.52	183.95
RE DISCCART	449000.0	4612000.0	179.69	179.69
RE DISCCART	449500.0	4612000.0	179.49	179.49
RE DISCCART	450000.0	4612000.0	179.38	179.38
RE DISCCART	450500.0	4612000.0	178.34	178.34
RE DISCCART	451000.0	4612000.0	182.39	182.39
RE DISCCART	451500.0	4612000.0	182.37	225.05
RE DISCCART	452000.0	4612000.0	181.49	225.36
RE DISCCART	452500.0	4612000.0	184.12	184.12
RE DISCCART	453000.0	4612000.0	184.95	184.95
RE DISCCART	453500.0	4612000.0	178.57	178.57
RE DISCCART	454000.0	4612000.0	180.49	180.49
RE DISCCART	454500.0	4612000.0	178.19	178.19
RE DISCCART	455000.0	4612000.0	178.19	178.19
RE DISCCART	455500.0	4612000.0	178.54	178.54
RE DISCCART	456000.0	4612000.0	177.55	177.55
RE DISCCART	456500.0	4612000.0	178.45	178.45
RE DISCCART	457000.0	4612000.0	187.07	187.07
RE DISCCART	457500.0	4612000.0	178.9	178.9
RE DISCCART	458000.0	4612000.0	180.18	180.18
RE DISCCART	458500.0	4612000.0	181.27	181.27
RE DISCCART	459000.0	4612000.0	179.48	179.48
RE DISCCART	459500.0	4612000.0	179.18	179.18
RE DISCCART	460000.0	4612000.0	179.39	179.39
RE DISCCART	449000.0	4612500.0	179.7	179.7
RE DISCCART	449500.0	4612500.0	179.59	179.59
RE DISCCART	450000.0	4612500.0	179.77	179.77
RE DISCCART	450500.0	4612500.0	178.49	178.49
RE DISCCART	451000.0	4612500.0	179.71	179.71
RE DISCCART	451500.0	4612500.0	178.63	178.63
RE DISCCART	457000.0	4612500.0	179.	179.
RE DISCCART	457500.0	4612500.0	179.42	179.42
RE DISCCART	458000.0	4612500.0	188.17	188.17
RE DISCCART	458500.0	4612500.0	183.15	183.15
RE DISCCART	459000.0	4612500.0	178.08	178.08
RE DISCCART	459500.0	4612500.0	178.89	178.89
RE DISCCART	460000.0	4612500.0	180.61	180.61

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RE DISCCART	449000.0	4613000.0	179.78	179.78
RE DISCCART	449500.0	4613000.0	178.49	178.49
RE DISCCART	450000.0	4613000.0	179.65	179.65
RE DISCCART	450500.0	4613000.0	178.49	178.49
RE DISCCART	451000.0	4613000.0	175.19	175.19
RE DISCCART	451500.0	4613000.0	178.29	178.29
RE DISCCART	457000.0	4613000.0	177.09	177.09
RE DISCCART	457500.0	4613000.0	178.28	178.28
RE DISCCART	458000.0	4613000.0	176.93	176.93
RE DISCCART	458500.0	4613000.0	177.27	177.27
RE DISCCART	459000.0	4613000.0	178.45	178.45
RE DISCCART	459500.0	4613000.0	178.96	178.96
RE DISCCART	460000.0	4613000.0	179.67	179.67
RE DISCCART	449000.0	4613500.0	181.28	181.28
RE DISCCART	449500.0	4613500.0	179.69	179.69
RE DISCCART	450000.0	4613500.0	179.19	179.19
RE DISCCART	450500.0	4613500.0	178.29	178.29
RE DISCCART	451000.0	4613500.0	177.27	178.48
RE DISCCART	451500.0	4613500.0	178.39	178.39
RE DISCCART	457000.0	4613500.0	177.09	177.09
RE DISCCART	457500.0	4613500.0	177.09	177.09
RE DISCCART	458000.0	4613500.0	176.95	176.95
RE DISCCART	458500.0	4613500.0	180.9	180.9
RE DISCCART	459000.0	4613500.0	178.18	178.18
RE DISCCART	459500.0	4613500.0	179.99	179.99
RE DISCCART	460000.0	4613500.0	179.91	179.91
RE DISCCART	449000.0	4614000.0	182.54	182.54
RE DISCCART	449500.0	4614000.0	179.72	179.72
RE DISCCART	450000.0	4614000.0	178.74	178.74
RE DISCCART	450500.0	4614000.0	175.19	175.19
RE DISCCART	451000.0	4614000.0	175.19	175.19
RE DISCCART	451500.0	4614000.0	178.29	178.29
RE DISCCART	457000.0	4614000.0	177.09	177.09
RE DISCCART	457500.0	4614000.0	177.85	177.85
RE DISCCART	458000.0	4614000.0	177.94	177.94
RE DISCCART	458500.0	4614000.0	177.86	177.86
RE DISCCART	459000.0	4614000.0	178.75	178.75
RE DISCCART	459500.0	4614000.0	180.26	180.26
RE DISCCART	460000.0	4614000.0	179.27	179.27
RE DISCCART	449000.0	4614500.0	180.54	180.54
RE DISCCART	449500.0	4614500.0	179.65	179.65
RE DISCCART	450000.0	4614500.0	178.29	178.29
RE DISCCART	450500.0	4614500.0	175.19	175.19
RE DISCCART	451000.0	4614500.0	175.19	175.19
RE DISCCART	451500.0	4614500.0	177.32	177.32
RE DISCCART	457000.0	4614500.0	177.09	177.09
RE DISCCART	457500.0	4614500.0	177.65	177.65
RE DISCCART	458000.0	4614500.0	178.39	178.39

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RE DISCCART	458500.0	4614500.0	178.24	178.24
RE DISCCART	459000.0	4614500.0	179.16	179.16
RE DISCCART	459500.0	4614500.0	180.73	180.73
RE DISCCART	460000.0	4614500.0	175.54	175.54
RE DISCCART	449000.0	4615000.0	182.59	182.59
RE DISCCART	449500.0	4615000.0	179.69	179.69
RE DISCCART	450000.0	4615000.0	178.7	178.7
RE DISCCART	450500.0	4615000.0	178.29	178.29
RE DISCCART	451000.0	4615000.0	175.19	175.19
RE DISCCART	451500.0	4615000.0	175.19	175.19
RE DISCCART	457000.0	4615000.0	177.09	177.09
RE DISCCART	457500.0	4615000.0	177.74	177.74
RE DISCCART	458000.0	4615000.0	178.06	178.06
RE DISCCART	458500.0	4615000.0	178.77	178.77
RE DISCCART	459000.0	4615000.0	175.54	175.54
RE DISCCART	459500.0	4615000.0	175.54	175.54
RE DISCCART	460000.0	4615000.0	175.54	175.54
RE DISCCART	449000.0	4615500.0	181.36	181.36
RE DISCCART	449500.0	4615500.0	179.54	179.54
RE DISCCART	450000.0	4615500.0	178.59	178.59
RE DISCCART	450500.0	4615500.0	180.56	183.03
RE DISCCART	451000.0	4615500.0	178.29	178.29
RE DISCCART	451500.0	4615500.0	175.49	175.49
RE DISCCART	457000.0	4615500.0	178.48	178.48
RE DISCCART	457500.0	4615500.0	178.16	178.16
RE DISCCART	458000.0	4615500.0	179.33	179.33
RE DISCCART	458500.0	4615500.0	175.54	175.54
RE DISCCART	459000.0	4615500.0	175.54	175.54
RE DISCCART	459500.0	4615500.0	175.54	175.54
RE DISCCART	460000.0	4615500.0	175.23	175.23
RE DISCCART	449000.0	4616000.0	181.66	181.66
RE DISCCART	449500.0	4616000.0	180.79	180.79
RE DISCCART	450000.0	4616000.0	179.31	179.31
RE DISCCART	450500.0	4616000.0	184.68	184.68
RE DISCCART	451000.0	4616000.0	185.29	185.29
RE DISCCART	451500.0	4616000.0	176.55	178.43
RE DISCCART	457000.0	4616000.0	178.64	185.35
RE DISCCART	457500.0	4616000.0	179.75	179.75
RE DISCCART	458000.0	4616000.0	175.54	175.54
RE DISCCART	458500.0	4616000.0	175.54	175.54
RE DISCCART	459000.0	4616000.0	175.53	175.53
RE DISCCART	459500.0	4616000.0	175.19	175.19
RE DISCCART	460000.0	4616000.0	175.19	175.19
RE DISCCART	449000.0	4616500.0	182.19	182.19
RE DISCCART	449500.0	4616500.0	181.91	181.91
RE DISCCART	450000.0	4616500.0	179.29	179.29
RE DISCCART	450500.0	4616500.0	179.57	179.57
RE DISCCART	451000.0	4616500.0	191.5	191.5

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RE DISCCART 451500.0 4616500.0 194. 194.
RE DISCCART 457000.0 4616500.0 179.22 179.22
RE DISCCART 457500.0 4616500.0 175.54 175.54
RE DISCCART 458000.0 4616500.0 175.54 175.54
RE DISCCART 458500.0 4616500.0 175.4 175.4
RE DISCCART 459000.0 4616500.0 175.19 175.19
RE DISCCART 459500.0 4616500.0 175.19 175.19
RE DISCCART 460000.0 4616500.0 175.19 175.19
RE DISCCART 449000.0 4617000.0 182.05 182.05
RE DISCCART 449500.0 4617000.0 182.45 182.45
RE DISCCART 450000.0 4617000.0 179.91 179.91
RE DISCCART 450500.0 4617000.0 180.45 180.45
RE DISCCART 451000.0 4617000.0 184.01 185.93
RE DISCCART 451500.0 4617000.0 183.08 183.08
RE DISCCART 457000.0 4617000.0 178.93 178.93
RE DISCCART 457500.0 4617000.0 175.54 175.54
RE DISCCART 458000.0 4617000.0 175.29 175.29
RE DISCCART 458500.0 4617000.0 175.19 175.19
RE DISCCART 459000.0 4617000.0 175.19 175.19
RE DISCCART 459500.0 4617000.0 175.19 175.19
RE DISCCART 460000.0 4617000.0 175.19 175.19
RE DISCCART 449000.0 4617500.0 181.75 181.75
RE DISCCART 449500.0 4617500.0 182.79 182.79
RE DISCCART 450000.0 4617500.0 180.89 180.89
RE DISCCART 450500.0 4617500.0 179.74 179.74
RE DISCCART 451000.0 4617500.0 179.68 179.68
RE DISCCART 451500.0 4617500.0 178.94 178.94
RE DISCCART 452000.0 4617500.0 186.46 186.46
RE DISCCART 452500.0 4617500.0 183.11 183.11
RE DISCCART 453000.0 4617500.0 178.65 178.65
RE DISCCART 453500.0 4617500.0 180.31 180.31
RE DISCCART 454000.0 4617500.0 178.21 178.21
RE DISCCART 454500.0 4617500.0 178.23 178.23
RE DISCCART 455000.0 4617500.0 178.19 178.19
RE DISCCART 455500.0 4617500.0 179.82 179.82
RE DISCCART 456000.0 4617500.0 179.87 179.87
RE DISCCART 456500.0 4617500.0 178.43 178.43
RE DISCCART 457000.0 4617500.0 175.54 175.54
RE DISCCART 457500.0 4617500.0 175.54 175.54
RE DISCCART 458000.0 4617500.0 175.19 175.19
RE DISCCART 458500.0 4617500.0 175.19 175.19
RE DISCCART 459000.0 4617500.0 175.19 175.19
RE DISCCART 459500.0 4617500.0 175.19 175.19
RE DISCCART 460000.0 4617500.0 175.19 175.19
RE DISCCART 449000.0 4618000.0 181.45 181.45
RE DISCCART 449500.0 4618000.0 181.73 181.73
RE DISCCART 450000.0 4618000.0 182.15 182.15
RE DISCCART 450500.0 4618000.0 183.71 183.71

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RE DISCCART	451000.0	4618000.0	179.78	179.78
RE DISCCART	451500.0	4618000.0	180.32	180.32
RE DISCCART	452000.0	4618000.0	179.69	179.69
RE DISCCART	452500.0	4618000.0	178.58	178.58
RE DISCCART	453000.0	4618000.0	178.49	178.49
RE DISCCART	453500.0	4618000.0	181.2	181.2
RE DISCCART	454000.0	4618000.0	178.78	178.78
RE DISCCART	454500.0	4618000.0	178.88	178.88
RE DISCCART	455000.0	4618000.0	178.68	178.68
RE DISCCART	455500.0	4618000.0	180.34	180.34
RE DISCCART	456000.0	4618000.0	179.52	179.52
RE DISCCART	456500.0	4618000.0	175.54	175.54
RE DISCCART	457000.0	4618000.0	175.54	175.54
RE DISCCART	457500.0	4618000.0	175.36	175.36
RE DISCCART	458000.0	4618000.0	175.19	175.19
RE DISCCART	458500.0	4618000.0	175.19	175.19
RE DISCCART	459000.0	4618000.0	175.19	175.19
RE DISCCART	459500.0	4618000.0	175.19	175.19
RE DISCCART	460000.0	4618000.0	175.19	175.19
RE DISCCART	449000.0	4618500.0	182.16	182.16
RE DISCCART	449500.0	4618500.0	182.49	182.49
RE DISCCART	450000.0	4618500.0	181.76	181.76
RE DISCCART	450500.0	4618500.0	183.49	183.49
RE DISCCART	451000.0	4618500.0	178.27	178.27
RE DISCCART	451500.0	4618500.0	179.93	179.93
RE DISCCART	452000.0	4618500.0	179.17	179.17
RE DISCCART	452500.0	4618500.0	178.57	178.57
RE DISCCART	453000.0	4618500.0	178.48	178.48
RE DISCCART	453500.0	4618500.0	178.28	178.28
RE DISCCART	454000.0	4618500.0	178.55	178.55
RE DISCCART	454500.0	4618500.0	179.47	179.47
RE DISCCART	455000.0	4618500.0	175.26	186.99
RE DISCCART	455500.0	4618500.0	179.69	179.69
RE DISCCART	456000.0	4618500.0	179.77	179.77
RE DISCCART	456500.0	4618500.0	175.54	175.54
RE DISCCART	457000.0	4618500.0	175.4	175.4
RE DISCCART	457500.0	4618500.0	175.19	175.19
RE DISCCART	458000.0	4618500.0	175.19	175.19
RE DISCCART	458500.0	4618500.0	175.19	175.19
RE DISCCART	459000.0	4618500.0	175.19	175.19
RE DISCCART	459500.0	4618500.0	175.19	175.19
RE DISCCART	460000.0	4618500.0	175.19	175.19
RE DISCCART	449000.0	4619000.0	182.29	182.29
RE DISCCART	449500.0	4619000.0	180.94	180.94
RE DISCCART	450000.0	4619000.0	180.4	180.4
RE DISCCART	450500.0	4619000.0	178.6	178.6
RE DISCCART	451000.0	4619000.0	178.27	178.27
RE DISCCART	451500.0	4619000.0	178.55	178.55

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RE DISCCART	452000.0	4619000.0	178.29	178.29
RE DISCCART	452500.0	4619000.0	178.2	178.2
RE DISCCART	453000.0	4619000.0	179.85	179.85
RE DISCCART	453500.0	4619000.0	183.24	183.24
RE DISCCART	454000.0	4619000.0	178.17	178.17
RE DISCCART	454500.0	4619000.0	182.73	182.73
RE DISCCART	455000.0	4619000.0	179.08	179.08
RE DISCCART	455500.0	4619000.0	179.7	179.7
RE DISCCART	456000.0	4619000.0	182.38	182.38
RE DISCCART	456500.0	4619000.0	175.19	175.19
RE DISCCART	457000.0	4619000.0	175.19	175.19
RE DISCCART	457500.0	4619000.0	175.19	175.19
RE DISCCART	458000.0	4619000.0	175.19	175.19
RE DISCCART	458500.0	4619000.0	175.19	175.19
RE DISCCART	459000.0	4619000.0	175.19	175.19
RE DISCCART	459500.0	4619000.0	175.19	175.19
RE DISCCART	460000.0	4619000.0	175.19	175.19
RE DISCCART	449000.0	4619500.0	181.64	181.64
RE DISCCART	449500.0	4619500.0	183.2	183.2
RE DISCCART	450000.0	4619500.0	180.81	180.81
RE DISCCART	450500.0	4619500.0	179.87	179.87
RE DISCCART	451000.0	4619500.0	180.41	180.41
RE DISCCART	451500.0	4619500.0	182.21	182.21
RE DISCCART	452000.0	4619500.0	182.86	182.86
RE DISCCART	452500.0	4619500.0	182.58	182.58
RE DISCCART	453000.0	4619500.0	180.85	180.85
RE DISCCART	453500.0	4619500.0	178.24	178.24
RE DISCCART	454000.0	4619500.0	182.29	182.29
RE DISCCART	454500.0	4619500.0	179.21	179.21
RE DISCCART	455000.0	4619500.0	176.81	176.81
RE DISCCART	455500.0	4619500.0	181.56	181.56
RE DISCCART	456000.0	4619500.0	181.12	181.12
RE DISCCART	456500.0	4619500.0	175.19	175.19
RE DISCCART	457000.0	4619500.0	175.19	175.19
RE DISCCART	457500.0	4619500.0	175.19	175.19
RE DISCCART	458000.0	4619500.0	175.19	175.19
RE DISCCART	458500.0	4619500.0	175.19	175.19
RE DISCCART	459000.0	4619500.0	175.19	175.19
RE DISCCART	459500.0	4619500.0	175.19	175.19
RE DISCCART	460000.0	4619500.0	175.19	175.19
RE DISCCART	449000.0	4620000.0	178.09	178.09
RE DISCCART	449500.0	4620000.0	181.25	181.25
RE DISCCART	450000.0	4620000.0	182.61	182.61
RE DISCCART	450500.0	4620000.0	178.48	178.48
RE DISCCART	451000.0	4620000.0	178.88	178.88
RE DISCCART	451500.0	4620000.0	178.53	178.53
RE DISCCART	452000.0	4620000.0	178.87	178.87
RE DISCCART	452500.0	4620000.0	179.53	179.53

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RE DISCCART 453000.0 4620000.0 178.93 178.93
RE DISCCART 453500.0 4620000.0 184.25 184.25
RE DISCCART 454000.0 4620000.0 179.77 179.77
RE DISCCART 454500.0 4620000.0 179.69 179.69
RE DISCCART 455000.0 4620000.0 179.43 179.43
RE DISCCART 455500.0 4620000.0 175.19 175.19
RE DISCCART 456000.0 4620000.0 182.51 182.51
RE DISCCART 456500.0 4620000.0 175.19 175.19
RE DISCCART 457000.0 4620000.0 175.19 175.19
RE DISCCART 457500.0 4620000.0 175.19 175.19
RE DISCCART 458000.0 4620000.0 175.19 175.19
RE DISCCART 458500.0 4620000.0 175.19 175.19
RE DISCCART 459000.0 4620000.0 175.19 175.19
RE DISCCART 459500.0 4620000.0 175.19 175.19
RE DISCCART 460000.0 4620000.0 175.19 175.19
RE DISCCART 449000.0 4620500.0 179.94 179.94
RE DISCCART 449500.0 4620500.0 180.73 180.73
RE DISCCART 450000.0 4620500.0 181.21 181.21
RE DISCCART 450500.0 4620500.0 179.86 179.86
RE DISCCART 451000.0 4620500.0 178.19 178.19
RE DISCCART 451500.0 4620500.0 178.78 178.78
RE DISCCART 452000.0 4620500.0 180.45 180.45
RE DISCCART 452500.0 4620500.0 182.02 182.02
RE DISCCART 453000.0 4620500.0 184.42 184.42
RE DISCCART 453500.0 4620500.0 180.54 180.54
RE DISCCART 454000.0 4620500.0 179.79 179.79
RE DISCCART 454500.0 4620500.0 178.85 178.85
RE DISCCART 455000.0 4620500.0 178.95 178.95
RE DISCCART 455500.0 4620500.0 180.39 180.39
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ME STARTING
ME SURFFILE "MDW_DVN_2016.SFC" FREE
ME PROFFILE "MDW_DVN_2016.PFL" FREE
ME SURFDATA 14819 2016 "CHICAGO MIDWAY INTL ARPT, IL"
ME UAIRDATA 94982 2016 "DAVENPORT MUNICIPAL AIRPT, IA"
ME PROFBASE 175 METERS
ME FINISHED

Phosphorus_2016_OTHER.DTA

OU STARTING
OU RECTABLE 24 FIRST
OU PLOTFILE 24 ALL FIRST "Phosphorus_2016_OTHER.GRF" 31
OU PLOTFILE ANNUAL ALL "Phosphorus_2016_OTHER.GRF" 31
OU SUMMFILE "Phosphorus_2016_OTHER.SUM"
OU FINISHED

Layman, Robb

From: Bernoteit, Bob
Sent: Wednesday, March 11, 2020 1:19 PM
To: Sprague, Jeff
Subject: FW: General III

FYI.

Bob Bernoteit
 FESOP/State Permits Unit Manager,
 Illinois EPA, Bureau of Air - Permit Section

From: Layman, Robb <Robb.Layman@Illinois.gov>
Sent: Wednesday, March 11, 2020 1:17 PM
To: Armitage, Julie <Julie.Armitage@Illinois.gov>; Mohr, Kent <Kent.Mohr@Illinois.gov>
Cc: Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Jones, Eric E. <Eric.E.Jones@Illinois.gov>
Subject: FW: General III

For your review and consideration with respect to the pending question of permit status...

From: Zwick, Ann M. <azwick@freeborn.com>
Sent: Wednesday, March 11, 2020 8:34 AM
To: Layman, Robb <Robb.Layman@Illinois.gov>
Cc: Sprague, Jeff <Jeff.Sprague@Illinois.gov>; John Pinion (jpinion@rka-inc.com) <jpinion@rka-inc.com>; 'General Iron; Kallas, Jim (jim@general-iron.com)' (jim@general-iron.com) <jim@general-iron.com>
Subject: [External] General III

Robb,

As we discussed, the following provides details and timelines to address IEPA's questions regarding the ambient air boundary and metal HAP emissions from the existing South Chicago Property Management (SCPM) entities:

1. Ambient Air Boundary

The following information confirms the actions to be taken by SCPM regarding the ambient air boundary, as proposed by SCPM (in consultation with IEPA), which were identified in SCPM's February 12, 2020 supplement to the air dispersion modeling report. SCPM commits to the completion of these actions by April 3, 2020.

Camera and Monitor for the East Ambient Air Boundary (south of the guard shack):

As described in SCPM's February 12, 2020 submittal, the eastern site boundary, south of the guard shack, will be supplemented by installation of a second elevated camera. This camera will be installed near the southeast corner of the site, viewing northward along the east boundary toward the guard shack. A monitor will also be installed in the guard shack to display the images from the existing camera and the proposed camera to allow security personnel to regularly view the southern portion of the east boundary.

The equipment required to complete the above actions has been ordered and will be installed upon receipt.

Physical Barrier Between the Calumet River and the Southwest Corner of the Southernmost Building:

SCPM has opted to provide the required barrier using shipping containers. A single row of shipping containers will be placed on the southern boundary of the industrial campus to secure the area between the Calumet River and the southwest corner of the southern-most building. The combination of the shipping containers and the southern wall of the building will comprise the southern boundary.

The containers used to construct the barrier will be in structurally sound with no holes that could allow rodents or water to enter the containers.

Signage:

SCPM will install no trespassing signs as described below. Signs will include wording to the effect of “No Trespassing – Violators Will Be Prosecuted.”

- Signs will be attached to the existing fence on the northern boundary and the eastern boundary north of the guard shack.
Signs in this area will be posted at intervals of approximately 300 feet.
- Signs will be attached to the south side of the container barrier and the southern wall of the southern-most building that comprise the southern ambient air boundary.
Signs in this area will be posted at intervals of approximately 300 feet.
- One sign will be installed south of the guard shack perpendicular to the eastern boundary of the site. The location and size of the sign will be such that it can be seen and read from the eastern site boundary of the site south of the guard shack.
- No signs will be installed on the western site boundary (east shore of the Calumet River).

2. Metal HAPs from SCPM Entities

The following describes the procedures used to estimate total metal HAP emissions from SCPM.

Emissions estimates for the following metal HAPs will be calculated:

Antimony	Lead
Arsenic	Manganese
Beryllium	Mercury
Cadmium	Nickel
Chromium	Phosphorus
Cobalt	Selenium

The above list identifies the metal HAPs that are included in the list of metals identified in USEPA’s procedure for sampling metal emissions from stationary sources (Method 29).

As identified in SCPM’s application for a Lifetime Operating Permit (LOP), the primary sources of particulate matter emissions are sand processing equipment operated by Reserve Marine Terminals (RMT), aluminum shredding equipment operated by Napuck Salvage of Waupaca (NSW), outdoor material handling associated with RMT and NSW and paved and unpaved roadway and outdoor material handling associated with RMT, NSW, South Shore Recycling (SSR) and Regency Technologies (RSR). The following describes the procedure to estimate total metal HAP emissions from each source.

Sand Processing:

The LOP application describes that the sand processing equipment is located inside a building and is equipped with water sprays to wet the feed material, and a dust collection system and baghouse used to control particulate matter emissions from select emission points in the process. The emission estimates in the LOP application do not include reductions in particulate matter emissions corresponding to the building or baghouse. Due to the relatively small size and capacity of this process, the estimated uncontrolled particulate matter emissions are 1.53 tons per year.

A representative sample of the material collected by the baghouse will be analyzed by a certified laboratory for the total concentrations of the above listed metal HAPs. The concentration (Wt %) of each metal HAP identified in the baghouse dust will be multiplied by total particulate matter emissions from the sand processing system to determine the mass emission rate (lb/hr and tpy) of each Metal HAP.

Aluminum Shredding:

The LOP application describes that the aluminum shredding process is located inside a building and is equipped with water sprays and a dust collection system and baghouse used to control particulate matter emissions from select emission points in the process. The emission estimates in the LOP application do not include reductions in particulate matter emissions corresponding to the building or baghouse. Due to the relatively small size and capacity of this process, the estimated uncontrolled particulate matter emissions are just 0.19 tons per year.

A representative sample of the material collected by the baghouse will be analyzed by a certified laboratory for the total concentrations of the above listed metal HAPs. The concentration (Wt %) of each metal HAP identified in the baghouse dust will be multiplied by total particulate matter emissions from the aluminum shredding process to determine the mass emission rate (lb/hr and tpy) of each Metal HAP.

Paved and Unpaved Roadways and Outdoor Material Handling:

The LOP application includes estimated particulate matter emissions from paved and unpaved roads and material handling for each operating entity at SCPM. Estimates of particulate matter emissions from these activities are based on the number, gross weight, and routes driven by trucks delivering raw material to the site or transportation of products and waste material from the site and the maximum estimated quantities for outdoor material handling. Metal HAP emissions from these activities will be estimated by collecting and analyzing a representative dust sample collected from paved and unpaved roads.

Samples of particulate matter from paved and unpaved roads will be collected from multiple locations within the SCPM campus. The samples from paved and unpaved roads respectively, will be composited into a single sample for analysis. These samples will be analyzed by a certified laboratory for the total concentrations of the above listed metal HAPs. The concentration (Wt %) of each metal HAP identified in the paved road dust sample dust will be multiplied by total particulate matter emissions from paved roadways to determine the mass emission rate (lb/hr and tpy) of each metal HAP. The concentration (Wt %) of each metal HAP identified in the unpaved road dust sample dust will be multiplied by total particulate matter emissions from unpaved roadways and outdoor material handling activities to determine the mass emission rate (lb/hr and tpy) of each metal HAP.

Emissions of each metal HAP from the above sources will be summed to identify the estimated total metal HAP emissions from SCPM.

Analytical results are anticipated to be received by early next week. The calculations described above will be performed and estimates of total metal HAP emissions from SCPM will be submitted to IEPA within 2 business days of receipt of all the analytical results.

Please let me know if you have any questions. We would appreciate the IEPA's prompt review of our responses to your questions.

Ann

ANN M. ZWICK

Attorney at Law



(312) 360-6254 direct

(312) 952-1651 mobile

azwick@freeborn.com

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311 South Wacker Drive, Suite 3000

Chicago, IL 60606

www.freeborn.com

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March 13, 2020

R17421-7.0

Mr. Jeff Sprague
Illinois Environmental Protection Agency - Bureau of Air
1021 North Grand Avenue East
Springfield, IL 62702

**Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021**

Dear Mr. Sprague:

The following information is provided at your request to quantify estimated metals emissions associated with South Chicago Property Management, Ltd. (SCPM) operations at 11600 S. Burley Avenue in Chicago, Illinois.

Metal HAP emissions from SCPM are a function of particulate emissions. The primary sources of PM emissions from SCPM are material handling activities and roadway emissions.

SCPM recently submitted an application for a Lifetime Operating Permit that included particulate matter emission rates. Metals emissions were estimated by collecting site specific samples of particulate matter from the site that are assumed to best represent the anticipated metal content of the particulate matter emissions from each emission unit. Samples were submitted to a certified laboratory for metals analysis and the reported metal concentrations from each sample were combined with corresponding particulate matter emission rates to estimate total metals emissions. The metal analytical reports are presented in Attachment A.

Table 1 below identifies the particulate matter emission units for each operating entity at SCPM and identifies the sample used to estimate metal emissions. The following briefly describes the samples collected and submitted for metals analysis.

RMT Material Handling:

A representative sample of particulate matter captured in the baghouse controlling emissions from RMT's sand processing unit was collected and analyzed to represent the metal content of particulate matter emissions from RMT's material handling activities (shredding and screening and materials drops).

Table 1 Identification of Particulate Matter Samples Used to Estimate Metal Emissions from Existing Emission Units

Emission Unit/Activity	Reserve Marine Terminals (RMT)	Napuck Salvage of Waupaca (NSW)	South Shore Recycling (SSR)	Regency Technologies (RSR)
Shredding & Screening	SPB	ASB		
Material Drops (inside)	SPB	ASB		
Internal Combustion Engines	Note 1.			
AL Dryer Propane Combustion		Note 1		
Torch Cutting	PR		PR	
Paved Roads - Controlled	PR	PR		PR
Unpaved Roads - Controlled	UP		UP	
Campus Wide AST 500-gal Gas	NA			
Campus Wide AST	NA			

SPB = Sand Processing Baghouse

UP = Unpaved Road Dust

ASB = Aluminum Shredding Baghouse

PR = Paved Road Dust

- For the purposes of this estimate, metal HAP emissions from fuel combustion sources (internal combustion engine/generators and the propane aluminum dryer) are assumed to be negligible and are not included in this estimate.

NSW Material Handling:

A representative sample of particulate matter captured in the baghouse controlling emissions from NSW's aluminum shredding system was collected and analyzed to represent the metal content of particulate matter emissions from NSW's material handling activities (shredding and screening and materials drops).

Paved Roads:

Particulate matter samples were collected from multiple locations on paved roads within SCPM. The samples were composited in the field and a single sample was collected and submitted for analysis. The metals content of the paved road particulate samples was assumed to represent particulate matter emissions from paved roads as well as torching emissions because torching is performed on a paved surface.

Unpaved Roads:

Particulate matter samples were collected from multiple locations on unpaved roads within SCPM. The samples were composited in the field and a single sample was collected and submitted for analysis. The metals content of the unpaved road particulate samples was assumed to represent particulate matter emissions from paved roads.

Table 2 presents a summary of metals concentrations from each sample analyzed.

Table 2 Summary of Metal Concentrations from SCPM Particulate Samples

HAP Y/N	Metal	Paved Roads PPM	Unpaved Roads PPM	NSW Baghouse Dust PPM	RMT Baghouse Dust PPM
Y	Antimony	<1.19	<1.24	24.9	<1.18
Y	Arsenic	<1.19	<1.24	<1.17	<1.18
Y	Beryllium	<1.19	<1.24	<0.117	<1.18
Y	Cadmium	0.724	0.834	15.3	0.962
Y	Chromium	346	303	106	527
Y	Cobalt	2.74	2.14	116	6.2
Y	Lead	50.6	72	595	46.1
Y	Manganese	4,760	5,040	624	4,000
Y	Mercury	<0.095	0.104	<0.095	0.547
Y	Nickel	25.5	20.2	101	74.5
Y	Phosphorus	40.1	184	1540	869
Y	Selenium	<1.19	<1.24	<1.17	<1.18
N	Barium	57.2	51.6	321	367
N	Copper	95.3	72.4	1760	373
N	Silver	<1.19	<1.24	<3.75	<1.18
N	Titanium	256	166	699	183
N	Zinc	249	178	3,560	1,660

Table 3 presents a summary of annual particulate matter emission rates from identified SCPM emission units and the corresponding annual metal emission rates.

Table 3 Summary of Maximum PM Emissions Used to Estimate Metal Emissions

POTENTIAL PM Emissions with Controlled Roadway PM					
Activity/Emission Unit	RMT PM (tpy)	NSW PM (tpy)	SSR PM (tpy)	RSR PM (tpy)	SCPM Total (tpy)
Shredding & Screening	1.5339	0.6222			2.1561
Material Drops (inside)	0.0142	0.0001			0.0143
Internal Combustion Engines	0.5300				
AL Dryer Propane Combustion		0.2010			
Torch Cutting	1.6824		0.0087		1.6911
Paved Roads - Controlled	1.8633	1.5416		1.2322	4.6371
Unpaved Roads - Controlled	5.0872		2.0012		7.0884
Campus Wide AST 500-gal Gas					
Campus Wide AST 1000-gal Diesel					
Totals Emissions	10.71	2.36	2.01	1.23	15.59

Total PM Emissions (tpy) Used to Estimate Corresponding Metal Emissions	RMT Material Handling	NSW Material Handling	SCPM Paved Roads & Torch Cutting	SCPM Unpaved Roads	Totals
	1.5481	0.6223	6.3282	7.0884	15.5870

Table 4 presents the estimated maximum annual metal emission rates, which were determined by multiplying the particulate emission rate (tpy) by the corresponding weight percent (Wt %) of each metal in the corresponding sample analyzed. Metals concentrations in Table 2 are reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (PPM). The weight percent of each metal is calculated by dividing the reported metal concentration by 1,000,000.

Table 4 Summary of Maximum SCPM Metal Emissions

HAP (Y/N)	Metal	RMT Material Handling (tpy)	NSW Material Handling (tpy)	SCPM Paved Roads and Torch Cutting (tpy)	SCPM Unpaved Roads (tpy)	SCPM Totals	
						(tpy)	lb/yr
Y	Antimony	1.81E-06	1.55E-05	7.53E-06	8.79E-06	3.36E-05	0.07
Y	Arsenic	1.81E-06	7.28E-07	7.53E-06	8.79E-06	1.89E-05	0.04
Y	Beryllium	7.74E-07	7.28E-08	7.53E-06	8.79E-06	1.72E-05	0.03
Y	Cadmium	1.49E-06	9.52E-06	4.58E-06	5.91E-06	2.15E-05	0.04
Y	Chromium	8.16E-04	6.60E-05	2.19E-03	2.15E-03	5.22E-03	10.44
Y	Cobalt	9.60E-06	7.22E-05	1.73E-05	1.52E-05	1.14E-04	0.23
Y	Lead	7.14E-05	3.70E-04	3.20E-04	5.10E-04	1.27E-03	2.54
Y	Manganese	6.19E-03	3.88E-04	3.01E-02	3.57E-02	7.24E-02	144.86
Y	Mercury	8.47E-07	5.91E-08	6.01E-07	7.37E-07	2.24E-06	0.00
Y	Nickel	1.15E-04	6.29E-05	1.61E-04	1.43E-04	4.83E-04	0.97
Y	Phosphorus	1.35E-03	9.58E-04	2.54E-04	1.30E-03	3.86E-03	7.72
Y	Selenium	1.83E-06	7.28E-07	7.53E-06	8.79E-06	1.89E-05	0.04
N	Barium	5.68E-04	2.00E-04	3.62E-04	3.66E-04	1.50E-03	2.99
N	Copper	5.77E-04	1.10E-03	6.03E-04	5.13E-04	2.79E-03	5.58
N	Silver	1.83E-06	2.33E-06	7.53E-06	8.79E-06	2.05E-05	0.04
N	Titanium	2.83E-04	4.35E-04	1.62E-03	1.18E-03	3.51E-03	7.03
N	Zinc	2.57E-03	2.22E-03	1.58E-03	1.26E-03	7.62E-03	15.25

The highest SCPM metal emission rate is Manganese (Mn) at an annual rate of 144.86 lb/yr. Actual emissions are estimated to be approximately 126.5 lb/yr.

Installation of GIII is expected to add approximately 75 lb/yr of additional Mn emissions to this site. At the same time, the installation of pavement for the GIII project will replace existing unpaved roads used by SCPM with paved roads, as described below. This improvement will reduce SCPM's annual Mn emissions by approximately 25.3 lb/yr, which will offset a portion of the increase in Mn emissions from GIII, resulting in an overall increase in site-wide Mn emissions of 49.7 lb/yr from the addition of GIII.

The community impacts associated with SCPM's current Mn emissions are documented by IEPA's ambient air quality monitoring station located at Washington High School. The IEPA's 2018 Air Quality Report identifies that the 2018 annual mean ambient air concentration of Mn measured at Washington High School was $0.048 \mu\text{g}/\text{m}^3$, which is just 16% of USEPA's recommended limit of $0.30 \mu\text{g}/\text{m}^3$. This current annual mean concentration already includes the impact from SCPM's current Mn emissions. It is unlikely that the estimated increase in site wide Mn emissions, corresponding to GIII will affect currently measured Mn levels at Washington High School.

Future Reduction in SCPM Mn Emissions:

A significant portion of the current vehicle miles traveled on unpaved surfaces at the SCPM site will be replaced by vehicle miles traveled on paved surfaces after construction of the GIII facility. This change will reduce SCPM's annual Mn emissions from fugitive roadways by 21.9% as illustrated below, which is a significant reduction.

The top portion of Table 5 identifies the estimated fugitive roadway PM emissions based on existing paved and unpaved roadways. The bottom portion of the table identifies the projected PM emissions after paving approximately 50% of existing unpaved roadway used by RMT and 30% of existing unpaved roadways used by SSR.

The estimated fugitive roadway PM emissions are multiplied by the measured Mn concentration (Wt %) in recent particulate matter samples from SCPM as described above.

The projected Mn emissions from the vehicle miles traveled on current roadway surfaces was compared to the estimated Mn emissions from vehicle miles traveled on future roadway surfaces. This comparison shows a reduction of 21.9% in the estimated Mn emissions associated with fugitive roadway PM emissions due to road paving that will be performed in conjunction construction of GIII.

Because the majority of fugitive roadway PM emissions are generated from interior plant roadways that are removed from the ambient air boundary. The estimates in roadway emissions are conservative because they do not account for the portion of particulate emissions that settle to the ground before reaching the property line. Based on the information presented herein, it is RKA’s opinion that the total site wide Mn emissions are unlikely to result in a predicted off-site exceedance of the ambient air standard for Mn beyond the ambient air boundary.

Table 5 – Summary of Current and Future Estimated Mn Emissions from SCPM Roadways

Entity	Current Paved Roadway PM Emissions ^a				Current Unpaved Roadway PM Emissions ^a				% of Unpaved Miles Improved to Paved Miles	
	lb/VMT	miles/day	tons/yr	miles/yr	lb/VMT	miles/day	tons/yr	miles/yr		
RMT	0.8593	16.68	1.86	4,336.79	3.25	6.49	5.09	3,132.99	50%	
NSW	0.8593	13.80	1.54	3,588.04					No Unpaved Roads	
SSR					0.79	0.79	2.00	5,038.90	30%	
RSR	0.8593	3.44	1.23	2,867.92					No Unpaved Roads	
Total Roadway PM Emissions		tpy	4.64				7.09			
Total Roadway Mn Emissions		ppm	4,760				5,040			
		lb/yr	44.15				71.45			
Future Roadway Mn Emissions		lb/yr	115.60							

Entity	Future Unpaved Roadway Emissions PM				Future Unpaved Roadway PM Emissions				
	lb/VMT	miles/day	tons/yr	miles/yr	lb/VMT	miles/day	tons/yr	miles/yr	
RMT	0.8593	19.93	2.54	5,903.28	3.25	3.25	2.54	1,566.50	
NSW	0.8593	13.80	1.54	3,588.04					
SSR	0.8593			1,511.67	0.79	0.56	1.40	3,527.23	
RSR	0.8593	3.44	1.23	2,867.92					
Total Roadway PM Emissions		tpy	5.31				3.94		
Total Roadway Mn Emissions		ppm	4,760				5,040		
		lb/yr	50.55				39.76		
Future Roadway Mn Emissions		lb/yr	90.31						

Projected Reduction in Roadway Mn Emissions	lb/yr	25.28
	%	21.9%

Current Facility Wide SCPM Mn Emissions	lb/yr	144.86
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Future Facility Wide SCPM Mn Emissions	lb/yr	119.57
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a. Emission estimates are conservative because they are based on maximum material throughputs and do not take credit for the portion of PM that will settle to the ground before crossing the property line.

March 13, 2020
R17423-7.0
Mr. Jeff Sprague – IEPA Bureau of Air
Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021
Page 7



If you have any questions or need any additional information, please don't hesitate to contact me at 630-393-9000 or by e-mail at jpinion@hotmail.com.

Yours very truly,
RK & Associates

A handwritten signature in cursive script, appearing to read "John A. Pinion".

cc: Dennis Stropko – SCPM – Chicago, Illinois
Jim Kallas – General III – Chicago, Illinois
Rob Layman – IEPA – Springfield
Bob Bernoteit – IEPA – Springfield.

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**Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021**

**General III, LLC
11600 S. Burley Avenue
Chicago, Illinois 60614**

March 13, 2020

ATTACHMENT A

**Metal Analytical Results for Particulate Samples Collected from
South Chicago Property Management Ltd.**

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Analytical Report

Mark Weintraub
Reserve Management Group
4550 Darrow Road
Stow, OH 44224

March 10, 2020

RE: SCPM
Napuck Dust

Work Order: 20C0342, 20C0343, 20C0344,
20C0345

Dear Mark Weintraub:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Mark Steuer
Project Manager
847.967.6666
MSteuer@emt.com
Approved for release: 3/10/2020 12:55:44PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 1002562020-1



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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
Napuck Dust	20C0344-01	Soil	03/05/20 00:00	03/05/20 16:00
Paved	20C0342-01	Soil	03/05/20 00:00	03/05/20 16:00
RMT Dust	20C0345-01	Soil	03/05/20 00:00	03/05/20 16:00
Unpaved	20C0343-01	Soil	03/05/20 00:00	03/05/20 16:00

Case Narrative

Client: Reserve Management Group

Date: 03/10/2020

Project: SCPM

Paved

Work Order: 20C0342, 20C0343, 20C0344, 20C0345

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20C0342

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0343

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0344

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0345

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Reserve Management Group
Project: SCPM
 Paved
Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Client Sample ID: Paved
Report Date: 03/10/2020
Collection Date: 03/05/2020 00:00
Matrix: Soil
Lab ID: 20C0342-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW6010C / SW3050							
Antimony	< 1.19	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Arsenic	< 1.19	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Barium	57.2	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Beryllium	< 1.19	1.19		mg/Kg	03/06/20 17:32	B0C0225	KJ1
Cadmium	0.724	0.119		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Chromium	346	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Cobalt	2.74	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Copper	95.3	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Lead	50.6	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Manganese	4760	11.9		mg/Kg	03/06/20 17:32	B0C0225	KJ1
Nickel	25.5	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Phosphorus	401	59.6	Q, S3	mg/Kg	03/06/20 17:32	B0C0225	KJ1
Selenium	< 1.19	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Silver	< 1.19	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Titanium	256	1.19		mg/Kg	03/06/20 18:23	B0C0225	KJ1
Zinc	249	4.76		mg/Kg	03/06/20 18:23	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	< 0.095	0.095		mg/Kg	03/09/20 14:08	B0C0297	GSB
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Client Sample Results

(Continued)

Client: Reserve Management Group**Project:** SCPM
Unpaved**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Client Sample ID:** Unpaved**Report Date:** 03/10/2020**Collection Date:** 03/05/2020 00:00**Matrix:** Soil**Lab ID:** 20C0343-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW6010C / SW3050							
Antimony	< 1.24	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Arsenic	< 1.24	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Barium	51.6	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Beryllium	< 1.24	1.24		mg/Kg	03/06/20 17:36	B0C0225	KJ1
Cadmium	0.834	0.124		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Chromium	303	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Cobalt	2.14	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Copper	72.4	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Lead	72.0	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Manganese	5040	12.4		mg/Kg	03/06/20 17:36	B0C0225	KJ1
Nickel	20.2	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Phosphorus	184	6.19	Q, S3	mg/Kg	03/06/20 18:27	B0C0225	KJ1
Selenium	< 1.24	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Silver	< 1.24	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Titanium	166	1.24		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Zinc	178	4.95		mg/Kg	03/06/20 18:27	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	0.104	0.095		mg/Kg	03/09/20 14:09	B0C0297	GSB
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Client Sample Results

(Continued)

Client: Reserve Management Group**Client Sample ID:** Napuck Dust**Project:** SCPM
Napuck Dust**Report Date:** 03/10/2020**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Collection Date:** 03/05/2020 00:00**Matrix:** Soil**Lab ID:** 20C0344-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW6010C / SW3050							
Antimony	24.9	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Arsenic	< 1.17	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Barium	321	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Beryllium	< 0.117	0.117		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Cadmium	15.3	0.117		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Chromium	106	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Cobalt	116	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Copper	1760	11.7		mg/Kg	03/06/20 17:41	B0C0225	KJ1
Lead	595	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Manganese	624	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Nickel	101	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Phosphorus	1540	58.6	Q, S3	mg/Kg	03/06/20 17:41	B0C0225	KJ1
Selenium	< 1.17	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Silver	< 3.75	3.75		mg/Kg	03/06/20 17:41	B0C0225	KJ1
Titanium	699	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Zinc	3560	46.9		mg/Kg	03/06/20 17:41	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	0.547	0.099		mg/Kg	03/09/20 14:11	B0C0297	GSB
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Client Sample Results

(Continued)

Client: Reserve Management Group**Project:** SCPM
RMT Dust**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Client Sample ID:** RMT Dust**Report Date:** 03/10/2020**Collection Date:** 03/05/2020 00:00**Matrix:** Soil**Lab ID:** 20C0345-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW6010C / SW3050							
Antimony	< 1.18	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Arsenic	< 1.18	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Barium	367	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Beryllium	< 0.500	0.500		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Cadmium	0.962	0.118		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Chromium	527	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Cobalt	6.20	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Copper	373	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Lead	46.1	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Manganese	4000	11.8		mg/Kg	03/06/20 17:45	B0C0225	KJ1
Nickel	74.5	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Phosphorus	869	58.9	Q, S3	mg/Kg	03/06/20 17:45	B0C0225	KJ1
Selenium	< 1.18	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Silver	< 1.18	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Titanium	183	1.18		mg/Kg	03/06/20 18:37	B0C0225	KJ1
Zinc	1660	47.2		mg/Kg	03/06/20 17:45	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	< 0.095	0.095		mg/Kg	03/09/20 14:13	B0C0297	GSB
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Dates Report

Client: Reserve Management Group
Project: SCPM
 Paved
Work Order: 20C0342,20C0343,20C0344,20C0345

Report Date: 03/10/2020

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20C0342-01	Paved	03/05/20	Soil	Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:23	B0C0225	S0C0113
				Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				20C0343-01	Unpaved				
Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:36					B0C0225	S0C0113
Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 17:36						
Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:09	B0C0297	S0C0130				
20C0344-01	Napuck Dust			Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:32	B0C0225	S0C0113
				Silver, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		

Dates Report

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Work Order:** 20C0342,20C0343,20C0344,20C0345

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence		
20C0344-01	Napuck Dust	03/05/20	Soil	Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32	B0C0225	S0C0113		
				Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Copper, Total ICP-AES		03/06/20 09:49	03/06/20 17:41				
				Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:11			B0C0297	S0C0130
				20C0345-01	RMT Dust					Nickel, Total ICP-AES	
Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:13					B0C0297	S0C0130		

Quality Control

Client: Reserve Management Group
Project: SCPM
 Napuck Dust

Report Date: 03/10/2020

Matrix: Solid

Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050

Blank (B0C0225-BLK1)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 16:56

Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Blank (B0C0225-BLK1) (Continued)**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 16:56

Nickel	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							

LCS (B0C0225-BS1)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109			
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109			
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109			
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109			
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108			
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108			
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108			
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108			
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112			
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112			
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112			
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112			
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110			
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110			
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110			
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110			
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**LCS (B0C0225-BS1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Unpaved

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**LCS (B0C0225-BS1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Serial Dilution (B0C0225-DUP1)**Source: 20C0340-02RE1**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:10

Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	

Serial Dilution (B0C0225-DUP2)**Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 19:03

Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P

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Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Serial Dilution (B0C0225-DUP2)** (Continued)**Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 19:03

Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P

MRL Check (B0C0225-MRL1)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:04

Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
 RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**MRL Check (B0C0225-MRL1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:04

Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Napuck Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike (B0C0225-MS1)****Source: 20C0340-02RE1**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:58

Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			

Matrix Spike (B0C0225-MS2)**Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:50

Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike (B0C0225-MS2) (Continued)****Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:50

Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			

Matrix Spike Dup (B0C0225-MSD1)**Source: 20C0340-02RE1**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:02

Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Napuck Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike Dup (B0C0225-MSD1) (Continued)** **Source: 20C0340-02RE1** Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:02

Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	

Matrix Spike Dup (B0C0225-MSD2) **Source: 20C0340-02RE2** Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:55

Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Napuck Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike Dup (B0C0225-MSD2) (Continued)** **Source: 20C0340-02RE2** Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:55

Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	

Post Spike (B0C0225-PS1)**Source: 20C0340-02RE1** Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:06

Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			

Post Spike (B0C0225-PS2)**Source: 20C0340-02RE2** Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:59

Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Post Spike (B0C0225-PS2) (Continued)****Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49

Analyzed: 03/06/2020 18:59

Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			

Reference (B0C0225-SRM1)

Prepared: 03/06/2020 09:49

Analyzed: 03/06/2020 17:08

Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
 RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Reference (B0C0225-SRM1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:08

Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			



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Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
 Napuck Dust

Report Date: 03/10/2020
Matrix: Solid

Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)

Reference (B0C0225-SRM1) (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:08

Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Napuck Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Mercury by CVAA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0297**Blank (B0C0297-BLK1)**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:02

Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							

LCS (B0C0297-BS1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:04

Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			

MRL Check (B0C0297-MRL1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 13:52

Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			

Matrix Spike (B0C0297-MS1)**Source: 20C0340-02**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:22

Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			

Matrix Spike Dup (B0C0297-MSD1)**Source: 20C0340-02**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:24

Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	

Reference (B0C0297-SRM1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:06

Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW6010C in Solid		
Antimony	7440-36-0	DoD,ISO,WDNR,ILEPA
Arsenic	7440-38-2	DoD,ISO,AKDEC,WDNR,ILEPA
Barium	7440-39-3	DoD,ISO,AKDEC,WDNR,ILEPA
Beryllium	7440-41-7	DoD,ISO,WDNR,ILEPA
Cadmium	7440-43-9	DoD,ISO,AKDEC,WDNR,ILEPA
Chromium	7440-47-3	DoD,ISO,AKDEC,WDNR,ILEPA
Cobalt	7440-48-4	DoD,ISO,WDNR,ILEPA
Copper	7440-50-8	DoD,ISO,WDNR,ILEPA
Lead	7439-92-1	DoD,ISO,AKDEC,WDNR,ILEPA
Manganese	7439-96-5	DoD,ISO,WDNR,ILEPA
Nickel	7440-02-0	DoD,ISO,AKDEC,WDNR,ILEPA
Phosphorus	7723-14-0	DoD
Selenium	7782-49-2	DoD,ISO,WDNR,ILEPA
Silver	7440-22-4	DoD,ISO,WDNR,ILEPA
Titanium	7440-32-6	DoD,WDNR,ILEPA
Zinc	7440-66-6	DoD,ISO,WDNR,ILEPA
SW7471B in Solid		
Mercury	7439-97-6	ISO,DoD,WDNR,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	04/30/2020
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	04/30/2020
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	04/30/2020
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-1	07/27/2020
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	04/30/2020
TX	Texas Commission of Environmental Quality	T104704554-19-4	10/31/2020
WA	Washington State Department of Ecology	C1057	01/05/2021
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2020

Qualifiers and Definitions

Item	Description
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S3	The percent recovery was outside the limits, but the analyte is reported within the calibration range. Data is acceptable.
%Rec	Percent Recovery



ENVIRONMENTAL MONITORING TECHNOLOGIES

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0342
PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

67-6666
847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 ___ day turnaround
 ROUTINE

Due Date: **3-10-20** COC #: **233102**

Company: RMG
 Address: _____
 Phone #: (440) 287-7209 Fax #: (____) _____
 P.O. #: _____ Proj. #: _____
 Client Contact: MARK WEINTRAUB
 Project ID / Location: SCPM

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial - Other
 G - Glass B - Tedlar Bag

Preservative:
 None 4. NaOH 7. Zn Ace
 2. H2SO4 5. HCl 8. Other
 3. HNO3 6. MeOH

Analyses

EMT USE ONLY

EMT WORKORDER # 20C0342

SB AB BA BE
 CR CO CU
 PB MN NI P PH
 SE TI ZN AS

Sample I.D.	Sample Type	Container			Sampling					Preservation			
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab		
<u>PAVED</u>				<u>1</u>		<u>3/5/20</u>						<u>X X X X</u>	

Relinquished By: [Signature] Date: 3-5-20 Time: 16:00 Received By: _____ Date: - - Time: : : EMT USE ONLY

Relinquished By: _____ Date: - - Time: : : Received By: _____ Date: - - Time: : : Client Code: _____ EMT Project I.D. _____

Relinquished By: _____ Date: - - Time: : : Received For Lab By: [Signature] Date: 3-5-20 Time: 16:00 Jar Lot No. _____

SAMPLE RECEIVED ON ICE
 TEMPERATURE

23.3

EMT SAMPLE RETURN POLICY ON BACK

R 010711

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0342

Printed: 3/5/2020 4:20:46PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:02

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

3/5/20



ENVIRONM MONITORIN TECHNOLOG

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0343
PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

7-967-6666
X: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 ___ day turnaround
 ROUTINE

Due Date: **3 - 10 - 20** COC #: **233105**

Company: RMG
 Address: _____
 Phone #: 440 287 - 7209 Fax #: () - -
 P.O. #: _____ Proj. #: _____
 Client Contact: MARK WEINTRAUB
 Project ID / Location: SCPM

Sample Type:
 1. Waste Water 4. Sludge 7. Groundwater (filtered)
 2. Drinking Water 5. Oil 8. Other
 3. Soil 6. Groundwater

Container Type:
 P - Plastic V - VOC Vial Other
 G - Glass B - Tedlar Bag

Preservative:
 None 4. NaOH 7. Zn Ace
 2. H₂SO₄ 5. HCl 8. Other
 3. HNO₃ 6. MeOH

Analyses

SPAS, BA, BE, CD, CR, CO, CU, PB, MN, NI, P, Hg, SE, TI, ZN, AG

EMT USE ONLY
 EMT WORKORDER # 20C0343

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab			
UNPAVED			1	1		3/5/20							X X X X	OIA

Relinquished By: <i>[Signature]</i>	Date: <u>3 - 5 - 20</u> Time: <u>16 : 00</u>	Received By:	Date: - - Time: :	EMT USE ONLY	<input type="checkbox"/> SAMPLE RECEIVED ON ICE
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	Client Code:	<input checked="" type="checkbox"/> TEMPERATURE
Relinquished By:	Date: - - Time: :	Received For Lab By: <i>[Signature]</i>	Date: <u>3 - 5 - 20</u> Time: <u>16 : 00</u>	EMT Project I.D.	23.3
				Lot No.	EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0343

Printed: 3/5/2020 4:15:45PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:13

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20



ENVIRONMENTAL MONITORING TECHNOLOGIES

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0344

PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

967-6666
847-967-6735
w.emt.com

TURNAROUND TIME:
 RUSH _____ day turnaround
 ROUTINE

Due Date: **3-10-20** COC #: **233103**

Company: RMG

Address: _____

Phone #: 440) 287-7209 Fax #: () _____

P.O. #: _____ Proj. #: _____

Client Contact: MARK WEINTRAUB

Project ID / Location: SCPM

Sample Type:

- 1. Waste Water 4. Sludge 7. Groundwater (filtered)
- 2. Drinking Water 5. Oil 8. Other
- 3. Soil 6. Groundwater

Container Type:

- P - Plastic V - VOC Vial O - Other
- G - Glass B - Tedlar Bag

Preservative:

- 1. None 4. NaOH 7. Zn Ace
- 2. H2SO4 5. HCl 8. Other
- 3. HNO3 6. MeOH

Analyses

SB, AS, BA, BE
 CD, CR, CO, CU
 PB, MN, NI, P, Hg
 SE, LI, ZN, Ag

EMT USE ONLY
EMT WORKORDER #20C0344

Sample I.D.	Sample Type	Container			Sampling					Preservation		Field	Lab	Notes		
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab					
NAPUCK DUST				1		3/5/20						X	X	X	X	OIA

Relinquished By:	Date: <u>3-5-20</u> Time: <u>16:00</u>	Received By:	Date: - - Time: :	EMT USE ONLY	<input type="checkbox"/> SAMPLE RECEIVED ON ICE <input checked="" type="checkbox"/> TEMPERATURE <u>23.3</u> EMT SAMPLE RETURN POLICY ON BACK
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	Client Code: EMT Project I.D.	
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>Azraela Zube</u>	Date: <u>3-5-20</u> Time: <u>16:00</u>	Jar/Lot No.	

SPECIAL INSTRUCTIONS:

R 010715
Table of Contents

Sample Receipt Checklist

Work Order: 20C0344

Printed: 3/5/2020 4:17:27PM

Client: Reserve Management Group Project: Residential Soil Analysis	Date Due: Tuesday, March 10, 2020
--	--

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:16

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20



ENVIRONMENTAL MONITORING TECHNOLOG

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0345
PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

47-967-6665
FAX: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
____ day turnaround
 ROUTINE

Due Date: 3 - 10 - 20 COC #: 233101

Company: <u>RMG</u>	Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil <input checked="" type="checkbox"/> Other 3. Soil 6. Groundwater	Analyses SB, AS, DA, BE, CD, CR, CO, CU, TB, MN, NI, P, Hg, SE, TI, ZN, Pb EMT USE ONLY EMT WORKORDER #20C0345
Address: _____	Container Type: P - Plastic V - VOC Vial <input checked="" type="checkbox"/> - Other G - Glass B - Tedlar Bag	
Phone #: <u>(440) 287-7209</u> Fax #: (____) _____	Preservative: <input checked="" type="checkbox"/> None 4. NaOH 7. Zn Ace 2. H ₂ SO ₄ 5. HCl 8. Other 3. HNO ₃ 6. MeOH	
P.O. #: _____ Proj. #: _____		
Client Contact: <u>MARK WEINTRAUB</u>		
Project ID / Location: <u>SCPM</u>		

Sample I.D.	Sample Type	Container			Sampling				Preservation		Field	Lab	EMT USE ONLY	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field				Lab
<u>RMT DUST</u>				<u>1</u>		<u>3/5/20</u>							<u>X X X X</u>	<u>01A</u>

Relinquished By: <u>[Signature]</u>	Date: <u>3-5-20</u> Time: <u>16:00</u>	Received By:	Date: - - Time: :	EMT USE ONLY Client Code:	<input type="checkbox"/> SAMPLE RECEIVED ON ICE <input checked="" type="checkbox"/> TEMPERATURE
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	EMT Project I.D.	R 010717 <u>23.3</u> EMT SAMPLE RETURN POLICY ON BACK
Relinquished By:	Date: - - Time: :	Received For Lab By: <u>[Signature]</u>	Date: <u>3-5-20</u> Time: <u>16:00</u>	Jar/Lot No.	

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0345

Printed: 3/5/2020 4:19:35PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:18

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20

Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Friday, March 13, 2020 3:16 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Reserve Management Group; Stropko, Dennis; GII, LLC; Kallas, Jim (jimkallas@general-iron.com)
Subject: [External] Response to question on the GIII modeling report re: SCPM metal emissions
Attachments: 2020-03-13 DRAFT Response to Questions on GIII Modeling.pdf



Jeff,

Attached is a letter that identifies the estimated maximum metal emissions from SCPM per your request.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Tuesday, March 17, 2020 4:35 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Bloomberg, David E.
Subject: [External] RE: GIII Const Pmt - SCPM metal emission estimates



Jeff,

Thank you for the quick turnaround.

I will get back to you tomorrow.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Tuesday, March 17, 2020 4:33 PM
To: John Pinion <jpinion@rka-inc.com>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bloomberg, David E. <David.Bloomberg@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: GIII Const Pmt - SCPM metal emission estimates

John,

I've had a chance to review your recent submittal that quantifies metal emissions associated with the South Chicago Property Management, Ltd. (SCPM) operations, and have the following remarks for your consideration:

- The *Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – Chicago, Illinois* (January 24, 2020) identifies roadway segments that will be used in the course of operations at the proposed General III, LLC facility. There is not a clear indication of the length of road segments that will have overlapping usage with existing SCPM operations. This is important to know, because you've indicated in the current submittal that there will be a reduction in particulate matter emissions (and associated HAP and non-HAP metals) resulting from paving currently unpaved road sections that will be shared between the two entities. Please provide a site diagram similar to Figure C-1 in the aforementioned January 2020 report that identifies these road segments.
- It's my understanding that there were essentially baghouse "grab" samples taken for the RMT sand processing unit and the NSW aluminum shredding system. Additionally, samples obtained for paved road surfaces, and separately for unpaved road surfaces, were composited for analysis of metals. Prior to the ICP-AES laboratory analysis, were any of the samples size-fractionated either through sieving, or through re-suspension and subsequent collection for a size-specific fraction? I ask this only to get some necessary clarity as to how the analyzed samples compare with the Washington High School particulate matter samples.
- Table 5 in the current metals report contains potentially numerous incorrect numerical entries propagated from the omission of future paved roadway PM emissions for "SSR". I believe this missing value should be 0.65 ton/year. This affects total roadway PM and Mn emissions, the projected reduction in roadway Mn emissions, and the future facility-wide SCPM Mn emissions. Please advise as to whether this observation is correct. The wording for several headings/entries in this table also appear to be incorrect.
- I would caution against the use of statements that suggest the General III project would not affect "currently measured Mn levels at Washington High School" or that "Mn emissions are unlikely to result in a predicted off-site exceedance of the ambient air standard for Mn" unless supported by dispersion modeling results.

Best regards,

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Monday, March 16, 2020 11:50 AM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] GIII Const Pmt - SCPM metal emission estimates



Jeff,

Did you receive the metal emission estimates for SPCM and if so do you know when you will have a chance to comment on them?

Bob Bernoteit said that IEPA will be sending home most people for at least two weeks.

Will you be in your office during this time?

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Friday, March 20, 2020 1:56 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Bloomberg, David E.; Freeborn & Peters LLP; Zwick, Ann (azwick@freeborn.com); Reserve Management Group; Stropko, Dennis
Subject: [External] RE: GIII Const Pmt - SCPM metal emission estimates
Attachments: 2020-03-30 Revised Figure C-1 from GIII Modeling Rpt.pdf



Jeff,

See our responses to your questions in **blue text** below.

We have also e-mailed a revised copy of the letter presenting SCPM metal emissions that includes the changes described below.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Tuesday, March 17, 2020 4:33 PM
To: John Pinion <jpinion@rka-inc.com>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bloomberg, David E. <David.Bloomberg@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: GIII Const Pmt - SCPM metal emission estimates

John,

I've had a chance to review your recent submittal that quantifies metal emissions associated with the South Chicago Property Management, Ltd. (SCPM) operations, and have the following remarks for your consideration:

- The *Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – Chicago, Illinois* (January 24, 2020) identifies roadway segments that will be used in the course of operations at the proposed General III, LLC facility. There is not a clear indication of the length of road segments that will have overlapping usage with existing SCPM operations. This is important to know, because you've indicated in the current submittal that there will be a reduction in particulate matter emissions (and associated HAP and non-HAP metals) resulting from paving currently unpaved road sections that will be shared between the two entities. Please provide a site diagram similar to Figure C-1 in the aforementioned January 2020 report that identifies these road segments.

Paving by GIII will impact two vehicle travel routes: (1) the route for RMT material handling, and (2) the route for SSR Peddler drop offs. Each is discussed below. No other SCPM traffic routes will be affected by GIII paving.

RMT Material Handling

Below is a Google Earth photo showing the current traffic route shown for RMT material handling truck trips. This diagram also shows the proposed changes to this traffic route after paving by GIII.

The portion of the route shaded in red is unpaved and will be replaced by the new paved surface route shown in yellow. RMT trucks using the material storage area north of GIII will use the GIII scales inbound and outbound. This change removes approximately 2,715 ft of unpaved surface and replaces it with 2,118 ft of paved surface. This change reduces the round trip travel distance by approximately 597 feet.

As indicated by the new route (yellow lines), trucks will enter from 116th Street, enter GIII and travel to the scales (Segment B on Figure C-1 attached). The trucks will then travel over Segment F (see attached Figure C-1). At the end of Segment F, trucks will turn north and enter the unpaved material storage area north of GIII. The trucks will take the reverse route upon leaving the area.



SSR Peddler Drop Offs

Below is a Google Earth photo showing the current traffic route for SSR Peddler Drop Offs. This diagram also shows the proposed changes to this traffic route after paving by Gill.

Currently the entire distance of this traffic route is on unpaved surfaces. After Gill paving, the entire route will be on paved surfaces.

The portion of the existing route shaded in red (approximately 546 ft round trip) will be eliminated and replaced by the route shown by the yellow lines (500 ft round trip distance).

It is not anticipated that this route will be shared with Gill. The approximate location of this traffic route is shown in the attached Figure C-1.



- It's my understanding that there were essentially baghouse "grab" samples taken for the RMT sand processing unit and the NSW aluminum shredding system. Additionally, samples obtained for paved road surfaces, and separately for unpaved road surfaces, were composited for analysis of metals. Prior to the ICP-AES laboratory analysis, were any of the samples size-fractionated either through sieving, or through re-suspension and subsequent collection for a size-specific fraction? I ask this only to get some necessary clarity as to how the analyzed samples compare with the Washington High School particulate matter samples.

The samples of paved and unpaved road dust were not processed for particle size separation before being composited for analysis.

- Table 5 in the current metals report contains potentially numerous incorrect numerical entries propagated from the omission of future paved roadway PM emissions for "SSR". I believe this missing value should be 0.65 ton/year. This affects total roadway PM and Mn emissions, the projected reduction in roadway Mn emissions, and the future facility-wide SCPM Mn emissions. Please advise as to whether this observation is correct. The wording for several headings/entries in this table also appear to be incorrect.

There were two errors in the listing of SSR unpaved roadway fugitive particulate emissions. The lb/vmt and miles/day values have been corrected in the attached letter. The original values for total PM emissions and total miles/year were correct. The total PM emission was revised to reflect more accurate mean vehicle weights as discussed below.

There was also an error identified in the estimate of roadway fugitive particulate emission for RMT material handling. The original calculations used a round trip travel distance of 0.19119 miles. The correct round trip distance is 0.9119 miles.

We also adjusted mean vehicle weight. The semi-truck weight used in previous roadway fugitive particulate emission estimates was 40 tons. These trucks have a tare weight of approximately 20 tons and a loaded weight of 40 tons. The correct mean vehicle weight is 30 tons. Peddler vehicles are

primarily personal cars with some light pickups. We also added roadway fugitive particulate emission estimates for employee vehicles.

The above changes are included in the attached revised SCPM metal emissions estimate.

- I would caution against the use of statements that suggest the General III project would not affect “currently measured Mn levels at Washington High School” or that “Mn emissions are unlikely to result in a predicted off-site exceedance of the ambient air standard for Mn” unless supported by dispersion modeling results.

These statements have been removed from the revised SCPM metal emissions estimate (attached).

Best regards,

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692
Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Monday, March 16, 2020 11:50 AM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] GIII Const Pmt - SCPM metal emission estimates



Jeff,

Did you receive the metal emission estimates for SPCM and if so do you know when you will have a chance to comment on them?

Bob Bernoteit said that IEPA will be sending home most people for at least two weeks.

Will you be in your office during this time?

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111

Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

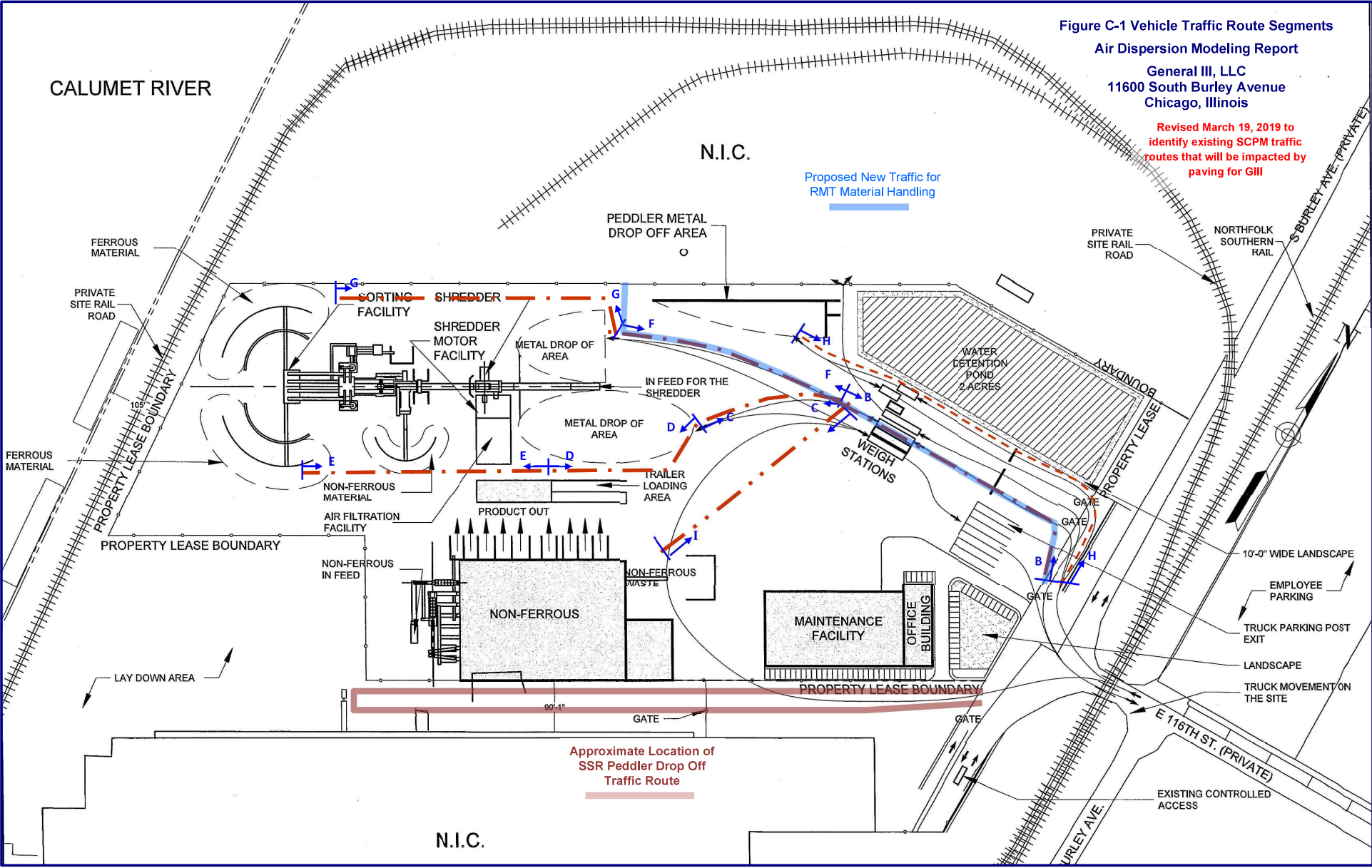
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Figure C-1 Vehicle Traffic Route Segments
Air Dispersion Modeling Report
 General III, LLC
 11600 South Burley Avenue
 Chicago, Illinois

Revised March 19, 2019 to
 identify existing SCPM traffic
 routes that will be impacted by
 paving for GIII



Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Friday, March 20, 2020 2:07 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Bloomberg, David E.; Freeborn & Peters LLP; Zwick, Ann (azwick@freeborn.com); Reserve Management Group; Stropko, Dennis
Subject: [External] RE: GIII Const Pmt - SCPM metal emission estimates



Jeff,

See our response to your question in [blue text](#) below.

We have also e-mailed a revised copy of the letter presenting SCPM metal emissions that includes the changes described below

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Tuesday, March 17, 2020 4:46 PM
To: John Pinion <jpinion@rka-inc.com>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bloomberg, David E. <David.Bloomberg@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: GIII Const Pmt - SCPM metal emission estimates

John,

Of course, I forgot something. It would be helpful to know the percentage breakout of total vehicle miles traveled (VMT) for the following: employee/light-duty vehicle traffic, incoming/outgoing haul truck traffic, "peddlers" vehicle traffic, product transfer offsite by trucks/vehicles, and waste transfer offsite by trucks/vehicles.

The vehicle characteristics and miles traveled for each type of vehicle are identified in the table below. The number of vehicle trips and daily miles traveled include all inbound and outbound trips for semi-trucks, peddler vehicles, and employee vehicles. There is very little waste generation from the site. On average there is only 1 roll off box removed from the site each week by a contract hauler. Roadway fugitive particulate emissions from waste removal are negligible and are not included in the table below.

Current Summary of SCPM Vehicle Traffic Routes

Parameter	Units	RMT			NSW			SSR	RSR	SCPM
		Sand Screening	Mat'l Handling		Mat'l Handling			Mat'l Dropoff	Mat'l Handling	Management/Administrative
Road Surface		Paved	Unpaved	Paved	Paved			Unpaved	Paved	
Production Vehicles Inbound/Outbound		Semis	Semis		Semis			Peddler Vehicles ^b	Semitruck	
Tare Weight	Tons	20.00	20.00	0.00	20.00			1.00	20.00	
Loaded Weight	Tons	40.00	40.00	0.00	40.00			1.38	40.00	
Mean Weight	Tons	30.00	30.00	0.00	30.00			1.19	30.00	
Vehicles per Day Inbound/Outbound	ea	12	63	0	12			51	21	
Round Trip Distance	Miles	1.3900	0.9121	0.0000	1.1500			0.3800	0.5250	
Daily Miles Driven	Miles/Day	16.68	57.46	0.00	13.80			19.38	11.03	
Employee Vehicles		RMT			NSW-1	NSW-2	NSW-3	SSR	RSR	
Mean Weight	Tons	1.00			1.00	1.00	1.00	1.00		1.00
Vehicles Day	ea	5			15	15	15	4	0 ^c	30
Round Trip Distance	Miles	1.00			0.25	0.40	0.50	1.00		0.23
Daily Miles Driven	Miles/Day	5.00			3.75	6.00	7.50	4.00		6.82

a. Outbound waste is negligible - approximately one large roll off box per week.

b. Peddler vehicles consist of personal vehicles and light pickup trucks.

c. RSR Employees park in a remote lot and are bussed onto the site

The mean vehicle weights and total vehicle miles per day from the above table are used to calculate roadway fugitive emissions summarized in the revised letter addressing SCPM metal emissions.

Thanks,

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Tuesday, March 17, 2020 4:35 PM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bloomberg, David E. <David.Bloomberg@Illinois.gov>
Subject: [External] RE: GIII Const Pmt - SCPM metal emission estimates



Jeff,

Thank you for the quick turnaround.

I will get back to you tomorrow.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
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From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Tuesday, March 17, 2020 4:33 PM
To: John Pinion <jpinion@rka-inc.com>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Bloomberg, David E. <David.Bloomberg@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: GIII Const Pmt - SCPM metal emission estimates

John,

I've had a chance to review your recent submittal that quantifies metal emissions associated with the South Chicago Property Management, Ltd. (SCPM) operations, and have the following remarks for your consideration:

- The *Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – Chicago, Illinois* (January 24, 2020) identifies roadway segments that will be used in the course of operations at the proposed General III, LLC facility. There is not a clear indication of the length of road segments that will have overlapping

usage with existing SCPM operations. This is important to know, because you've indicated in the current submittal that there will be a reduction in particulate matter emissions (and associated HAP and non-HAP metals) resulting from paving currently unpaved road sections that will be shared between the two entities. Please provide a site diagram similar to Figure C-1 in the aforementioned January 2020 report that identifies these road segments.

- It's my understanding that there were essentially baghouse "grab" samples taken for the RMT sand processing unit and the NSW aluminum shredding system. Additionally, samples obtained for paved road surfaces, and separately for unpaved road surfaces, were composited for analysis of metals. Prior to the ICP-AES laboratory analysis, were any of the samples size-fractionated either through sieving, or through re-suspension and subsequent collection for a size-specific fraction? I ask this only to get some necessary clarity as to how the analyzed samples compare with the Washington High School particulate matter samples.
- Table 5 in the current metals report contains potentially numerous incorrect numerical entries propagated from the omission of future paved roadway PM emissions for "SSR". I believe this missing value should be 0.65 ton/year. This affects total roadway PM and Mn emissions, the projected reduction in roadway Mn emissions, and the future facility-wide SCPM Mn emissions. Please advise as to whether this observation is correct. The wording for several headings/entries in this table also appear to be incorrect.
- I would caution against the use of statements that suggest the General III project would not affect "currently measured Mn levels at Washington High School" or that "Mn emissions are unlikely to result in a predicted off-site exceedance of the ambient air standard for Mn" unless supported by dispersion modeling results.

Best regards,

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Monday, March 16, 2020 11:50 AM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] GIII Const Pmt - SCPM metal emission estimates



Jeff,

Did you receive the metal emission estimates for SPCM and if so do you know when you will have a chance to comment on them?

Bob Bernoteit said that IEPA will be sending home most people for at least two weeks.

Will you be in your office during this time?

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

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Warrenville, Illinois 60555
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Fax: 630-393-9111
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Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Friday, March 20, 2020 2:13 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Bloomberg, David E.; Freeborn & Peters LLP; Zwick, Ann (azwick@freeborn.com); Reserve Management Group; Stropko, Dennis
Subject: [External] Revised SCPM Metal Emissions Analysis.
Attachments: 2020-03-20 Final Response to Questions on GIII Modeling.pdf



Jeff,

Please find attached a revised SCPM metals emissions estimate. The attached document addresses the questions in your e-mail of March 17, 2020, and is consistent with our responses to those questions e-mailed to you earlier today.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
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March 20, 2020

R17421-7.0

Mr. Jeff Sprague
Illinois Environmental Protection Agency - Bureau of Air
1021 North Grand Avenue East
Springfield, IL 62702

**Final Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021**

Dear Mr. Sprague:

The following information is provided at your request to quantify estimated metals emissions associated with South Chicago Property Management, Ltd. (SCPM) operations at 11600 S. Burley Avenue in Chicago, Illinois.

Metal HAP emissions from SCPM are a function of particulate emissions. The primary sources of PM emissions from SCPM are material handling activities and roadway emissions.

SCPM recently submitted an application for a Lifetime Operating Permit that included particulate matter emission rates. Metals emissions were estimated by collecting site specific samples of particulate matter from the site that are assumed to best represent the anticipated metal content of the particulate matter emissions from each emission unit. Samples were submitted to a certified laboratory for metals analysis and the reported metal concentrations from each sample were combined with corresponding particulate matter emission rates to estimate total metals emissions. The metal analytical reports are presented in Attachment A.

Table 1 below identifies the particulate matter emission units for each operating entity at SCPM and identifies the sample used to estimate metal emissions. The following briefly describes the samples collected and submitted for metals analysis.

RMT Material Handling:

A representative sample of particulate matter captured in the baghouse controlling emissions from RMT's sand processing unit was collected and analyzed to represent the metal content of particulate matter emissions from RMT's material handling activities (shredding and screening and materials drops). No screening for particle size was performed in preparation of the composite sample.

Table 1 Identification of Particulate Matter Samples Used to Estimate Metal Emissions from Existing Emission Units

Emission Unit/Activity	Reserve Marine Terminals (RMT)	Napuck Salvage of Waupaca (NSW)	South Shore Recycling (SSR)	Regency Technologies (RSR)
Shredding & Screening	SPB	ASB		
Material Drops (inside)	SPB	ASB		
Internal Combustion Engines	Note 1			
AL Dryer Propane Combustion		Note 1		
Torch Cutting	PR		PR	
Paved Roads - Controlled	PR	PR		PR
Unpaved Roads - Controlled	UP		UP	
Campus Wide AST 500-gal Gas	NA			
Campus Wide AST	NA			

SPB = Sand Processing Baghouse

UP = Unpaved Road Dust

ASB = Aluminum Shredding Baghouse

PR = Paved Road Dust

1. For the purposes of this estimate, metal HAP emissions from fuel combustion sources (internal combustion engine/generators and the propane aluminum dryer) are assumed to be negligible and are not included in this estimate.

NSW Material Handling:

A representative sample of particulate matter captured in the baghouse controlling emissions from NSW's aluminum shredding system was collected and analyzed to represent the metal content of particulate matter emissions from NSW's material handling activities (shredding and screening and materials drops). No screening for particle size was performed in preparation of the composite sample.

Paved Roads:

Particulate matter samples were collected from multiple locations on paved roads within SCPM. The samples were composited in the field and a single sample was collected and submitted for analysis. The metals content of the paved road particulate samples was assumed to represent particulate matter emissions from paved roads as well as torching emissions because torching is performed on a paved surface. No screening for particle size was performed in preparation of the composite sample.

Unpaved Roads:

Particulate matter samples were collected from multiple locations on unpaved roads within SCPM. The samples were composited in the field and a single sample was collected and submitted for analysis. The metals content of the unpaved road particulate samples was assumed to represent particulate matter emissions from paved roads. No screening for particle size was performed in preparation of the composite sample.

Table 2 presents a summary of metals concentrations from each sample analyzed.

Table 2 Summary of Metal Concentrations from SCPM Particulate Samples

HAP Y/N	Metal	Paved Roads PPM	Unpaved Roads PPM	NSW Baghouse Dust PPM	RMT Baghouse Dust PPM
Y	Antimony	<1.19	<1.24	24.9	<1.18
Y	Arsenic	<1.19	<1.24	<1.17	<1.18
Y	Beryllium	<1.19	<1.24	<0.117	<1.18
Y	Cadmium	0.724	0.834	15.3	0.962
Y	Chromium	346	303	106	527
Y	Cobalt	2.74	2.14	116	6.2
Y	Lead	50.6	72	595	46.1
Y	Manganese	4,760	5,040	624	4,000
Y	Mercury	<0.095	0.104	<0.095	0.547
Y	Nickel	25.5	20.2	101	74.5
Y	Phosphorus	40.1	184	1540	869
Y	Selenium	<1.19	<1.24	<1.17	<1.18
N	Barium	57.2	51.6	321	367
N	Copper	95.3	72.4	1760	373
N	Silver	<1.19	<1.24	<3.75	<1.18
N	Titanium	256	166	699	183
N	Zinc	249	178	3,560	1,660

Table 3 presents a summary of annual particulate matter emission rates from identified SCPM emission units and the corresponding annual metal emission rates.

Table 3 Summary of Maximum PM Emissions Used to Estimate Metal Emissions

POTENTIAL PM Emissions with Controlled Roadway PM

Activity/Emission Unit	RMT PM (tpy)	NSW PM (tpy)	SSR PM (tpy)	RSR PM (tpy)	SCPM Employee (tpy)	SCPM Total (tpy)
Shredding & Screening	1.5339	0.6222				2.1561
Material Drops (inside)	0.0142	0.0001				0.0143
Internal Combustion Engines	0.5300					
AL Dryer Propane Combustion		0.2010				
Torch Cutting	1.6824		0.0087			1.6911
Paved Roads - Controlled	1.3895	1.1496		0.9184	0.0860	3.5435
Unpaved Roads - Controlled	21.3129		1.6807			22.9936
Campus Wide AST 500-gal Gas						
Campus Wide AST 1000-gal Diesel						
Totals Emissions	26.46	1.97	1.69	0.92	0.09	30.40

Total PM Emissions (tpy) Used to Estimate Corresponding Metal Emissions	RMT Material Handling	NSW Material Handling	SCPM Paved Roads & Torch Cutting	SCPM Unpaved Roads	Totals
	1.5481	0.6223	5.2346	22.9936	30.3986

Table 4 presents the estimated maximum annual metal emission rates, which were determined by multiplying the particulate emission rate (tpy) by the corresponding weight percent (Wt %) of each metal in the corresponding sample analyzed. Metal concentrations in Table 2 are reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (PPM). The weight percent of each metal is calculated by dividing the reported metal concentration by 1,000,000.

Table 4 Summary of Maximum SCPM Metal Emissions

HAP (Y/N)	Metal	RMT Material Handling (tpy)	NSW Material Handling (tpy)	SCPM Paved Roads and Torch Cutting (tpy)	SCPM Unpaved Roads (tpy)	SCPM Totals	
						(tpy)	lb/yr
Y	Antimony	1.81E-06	1.55E-05	6.23E-06	2.85E-05	5.20E-05	0.10
Y	Arsenic	1.81E-06	7.28E-07	6.23E-06	2.85E-05	3.73E-05	0.07
Y	Beryllium	7.74E-07	7.28E-08	6.23E-06	2.85E-05	3.56E-05	0.07
Y	Cadmium	1.49E-06	9.52E-06	3.79E-06	1.92E-05	3.40E-05	0.07
Y	Chromium	8.16E-04	6.60E-05	1.81E-03	6.97E-03	9.66E-03	19.32
Y	Cobalt	9.60E-06	7.22E-05	1.43E-05	4.92E-05	1.45E-04	0.29
Y	Lead	7.14E-05	3.70E-04	2.65E-04	1.66E-03	2.36E-03	4.72
Y	Manganese	6.19E-03	3.88E-04	2.49E-02	1.16E-01	1.47E-01	294.77
Y	Mercury	8.47E-07	5.91E-08	4.97E-07	2.39E-06	3.79E-06	0.01
Y	Nickel	1.15E-04	6.29E-05	1.33E-04	4.64E-04	7.76E-04	1.55
Y	Phosphorus	1.35E-03	9.58E-04	2.10E-04	4.23E-03	6.74E-03	13.49
Y	Selenium	1.83E-06	7.28E-07	6.23E-06	2.85E-05	3.73E-05	0.07
N	Barium	5.68E-04	2.00E-04	2.99E-04	1.19E-03	2.25E-03	4.51
N	Copper	5.77E-04	1.10E-03	4.99E-04	1.66E-03	3.84E-03	7.67
N	Silver	1.83E-06	2.33E-06	6.23E-06	2.85E-05	3.89E-05	0.08
N	Titanium	2.83E-04	4.35E-04	1.34E-03	3.82E-03	5.88E-03	11.75
N	Zinc	2.57E-03	2.22E-03	1.30E-03	4.09E-03	1.02E-02	20.36

The highest total SCPM metal emission rate is Manganese (Mn) at 294.77 lb/yr. Actual emissions are estimated to be approximately 276.38 lb/yr.

Installation of GIII is expected to add approximately 74.18 lb/yr of additional Mn emissions to this site. At the same time, the installation of pavement for the GIII project will replace existing unpaved roads used by SCPM with paved roads, as described below. This improvement will reduce SCPM's annual Mn emissions by approximately 117.5 lb/yr, which will offset the increase in Mn emissions from GIII, resulting in an overall decrease in site-wide Mn emissions of 43.32 lb/yr from the addition of GIII.

The community impacts associated with SCPM's current Mn emissions are documented by IEPA's ambient air quality monitoring station located at Washington High School. The IEPA's 2018 Air Quality Report identifies that the annual mean ambient air concentration of Mn measured at Washington High School was 0.048 ug/m^3 , which is just 16% of USEPA's recommended limit of 0.30 ug/m^3 .

Future Reduction in SCPM Mn Emissions:

The top portion of Table 5 identifies the estimated fugitive roadway PM emissions based on existing paved and unpaved roadways. The bottom portion of the table identifies the future projected PM emissions after GIII paving.

The estimated fugitive roadway PM emissions are multiplied by the measured Mn concentration (Wt %) in recent particulate matter samples from SCPM as described above.

The estimated Mn emissions from the vehicle miles traveled on current roadway surfaces was compared to the estimated Mn emissions from vehicle miles traveled on future roadway surfaces. This comparison shows a reduction of 44.3% in the estimated Mn emissions associated with fugitive roadway PM emissions due to road paving that will be performed in conjunction construction of GIII.

The majority of fugitive roadway PM emissions are generated from interior plant roadways that are removed from the ambient air boundary. The estimates in roadway emissions are conservative because they do not account for the portion of particulate emissions that settle to the ground before reaching the property line.

Table 5 - Summary of Current and Future Estimated Mn Emissions from SCPM

Entity	Current Paved Roadway PM Emissions ^a				Current Unpaved Roadway PM Emissions ^a			
	lb/VMT	miles/day	tons/yr	miles/yr	lb/VMT	miles/day	tons/yr	miles/yr
RMT	0.6408	16.68	1.39	4,336.77	2.8531	57.46	21.31	14,940.17
NSW	0.6408	13.80	1.15	3,588.01				
SSR					0.6671	19.38	1.68	5,038.82
RSR	0.6408	2.56	0.92	2,866.42				
Employees	0.0200	33.07	0.09	8,600.00				
Current Maximum Roadway PM Emissions		tpy	3.54				22.99	
Current Maximum Roadway Mn Emissions		ppm	4,760				5,040	
		lb/yr	33.73				231.78	
		lb/yr	265.51					
Current Maximum SCPM Mn Emissions		lb/yr	294.77 (includes process emissions and roadway emissions)					

Entity	Future Paved Roadway Emissions PM (After GIII Paving)				Future Unpaved Roadway PM Emissions (After GIII Paving)			
	lb/VMT	miles/day	tons/yr	miles/yr ^a	lb/VMT	miles/day	tons/yr	miles/yr
RMT	0.6408	41.95	3.49	10,907.30	2.8531	25.06	9.29	6,514.74
NSW	0.6408	13.80	1.15	3,588.01				
SSR	0.0238	18.88	0.06	4,907.56	All unpaved roads eliminated by GIII.			
RSR	0.6408	2.56	0.92	2,866.42				
Employees	0.0200	33.07	0.09	8,600.00				
Future Maximum Roadway PM Emissions		tpy	5.71				9.29	
Future Maximum Roadway Mn Emissions (After GIII Paving)		ppm	4,760				5,040	
		lb/yr	54.33				93.68	
		lb/yr	148.01					
Reduction in Roadway Mn Due to GIII Paving		lb/yr	117.50					
		%	44.3%					
Future Maximum SCPM Mn Emissions (After GIII Paving)		lb/yr	177.27 (includes process and roadway emissions)					

Estimated Maximum Mn Emissions from GIII	lb/yr	74.18 (includes process and roadway emissions from GIII Construction Permit)
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Estimated Maximum Mn Emissions Site-Wide (SCPM + GIII)	lb/yr	251.45 (includes process and roadway emissions)
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Decrease in Site-Wide Mn Emissions After Adding GIII
43.32 lb/yr

a. Emission estimates are conservative because they are based on maximum material throughputs and do not take credit for the portion of PM that will settle to the ground before crossing the property line.

March 20, 2020
R17423-7.0
Mr. Jeff Sprague – IEPA Bureau of Air
Final Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021
Page 7



If you have any questions or need any additional information, please don't hesitate to contact me at 630-393-9000 or by e-mail at jpinion@hotmail.com.

Yours very truly,
RK & Associates

A handwritten signature in cursive script, appearing to read "John A. Pinion".

cc: Dennis Stropko – SCPM – Chicago, Illinois
Jim Kallas – General III – Chicago, Illinois
Rob Layman – IEPA – Springfield
Bob Bernoteit – IEPA – Springfield.

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**Final Metal Emissions from South Chicago Property Management, Ltd.
General III, LLC - 11600 South Burley - Chicago, Illinois
Site ID No. 031600SFX; Application No. 19090021**

**General III, LLC
11600 S. Burley Avenue
Chicago, Illinois 60614**

March 19, 2020

ATTACHMENT A

**Metal Analytical Results for Particulate Samples Collected from
South Chicago Property Management Ltd.**

Analytical Report

Mark Weintraub
Reserve Management Group
4550 Darrow Road
Stow, OH 44224

March 10, 2020

RE: SCPM
Napuck Dust

Work Order: 20C0342, 20C0343, 20C0344,
20C0345

Dear Mark Weintraub:

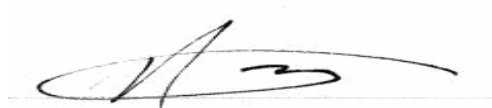
Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Mark Steuer
Project Manager
847.967.6666
MSteuer@emt.com
Approved for release: 3/10/2020 12:55:44PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 1002562020-1



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Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
Napuck Dust	20C0344-01	Soil	03/05/20 00:00	03/05/20 16:00
Paved	20C0342-01	Soil	03/05/20 00:00	03/05/20 16:00
RMT Dust	20C0345-01	Soil	03/05/20 00:00	03/05/20 16:00
Unpaved	20C0343-01	Soil	03/05/20 00:00	03/05/20 16:00

Case Narrative

Client: Reserve Management Group

Date: 03/10/2020

Project: SCPM

Paved

Work Order: 20C0342, 20C0343, 20C0344, 20C0345

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 20C0342

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0343

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0344

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Work Order: 20C0345

The samples were received on 03/05/20 16:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	23.3

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Client Sample Results

Client: Reserve Management Group
Project: SCPM
 Paved
Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Client Sample ID: Paved
Report Date: 03/10/2020
Collection Date: 03/05/2020 00:00
Matrix: Soil
Lab ID: 20C0342-01

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						
Metals by ICP-AES								
Method: SW6010C / SW3050								
Antimony	< 1.19	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Arsenic	< 1.19	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Barium	57.2	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Beryllium	< 1.19	1.19			mg/Kg	03/06/20 17:32	B0C0225	KJ1
Cadmium	0.724	0.119			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Chromium	346	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Cobalt	2.74	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Copper	95.3	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Lead	50.6	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Manganese	4760	11.9			mg/Kg	03/06/20 17:32	B0C0225	KJ1
Nickel	25.5	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Phosphorus	401	59.6	Q, S3		mg/Kg	03/06/20 17:32	B0C0225	KJ1
Selenium	< 1.19	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Silver	< 1.19	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Titanium	256	1.19			mg/Kg	03/06/20 18:23	B0C0225	KJ1
Zinc	249	4.76			mg/Kg	03/06/20 18:23	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	< 0.095	0.095			mg/Kg	03/09/20 14:08	B0C0297	GSB
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Client Sample Results

(Continued)

Client: Reserve Management Group
Project: SCPM
 Unpaved
Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Client Sample ID: Unpaved
Report Date: 03/10/2020
Collection Date: 03/05/2020 00:00
Matrix: Soil
Lab ID: 20C0343-01

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						
Metals by ICP-AES								
Method: SW6010C / SW3050								
Antimony	< 1.24	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Arsenic	< 1.24	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Barium	51.6	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Beryllium	< 1.24	1.24			mg/Kg	03/06/20 17:36	B0C0225	KJ1
Cadmium	0.834	0.124			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Chromium	303	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Cobalt	2.14	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Copper	72.4	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Lead	72.0	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Manganese	5040	12.4			mg/Kg	03/06/20 17:36	B0C0225	KJ1
Nickel	20.2	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Phosphorus	184	6.19	Q, S3		mg/Kg	03/06/20 18:27	B0C0225	KJ1
Selenium	< 1.24	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Silver	< 1.24	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Titanium	166	1.24			mg/Kg	03/06/20 18:27	B0C0225	KJ1
Zinc	178	4.95			mg/Kg	03/06/20 18:27	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	0.104	0.095			mg/Kg	03/09/20 14:09	B0C0297	GSB
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Client Sample Results

(Continued)

Client:	Reserve Management Group	Client Sample ID:	Napuck Dust
Project:	SCPM Napuck Dust	Report Date:	03/10/2020
Work Order:	20C0342, 20C0343, 20C0344, 20C0345	Collection Date:	03/05/2020 00:00
		Matrix:	Soil
		Lab ID:	20C0344-01

Analyses	Result	EMT Reporting		Units	Date/Time Analyzed	Batch	Analyst
		Limit	Qual				
Metals by ICP-AES							
Method: SW6010C / SW3050							
Antimony	24.9	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Arsenic	< 1.17	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Barium	321	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Beryllium	< 0.117	0.117		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Cadmium	15.3	0.117		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Chromium	106	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Cobalt	116	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Copper	1760	11.7		mg/Kg	03/06/20 17:41	B0C0225	KJ1
Lead	595	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Manganese	624	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Nickel	101	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Phosphorus	1540	58.6	Q, S3	mg/Kg	03/06/20 17:41	B0C0225	KJ1
Selenium	< 1.17	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Silver	< 3.75	3.75		mg/Kg	03/06/20 17:41	B0C0225	KJ1
Titanium	699	1.17		mg/Kg	03/06/20 18:32	B0C0225	KJ1
Zinc	3560	46.9		mg/Kg	03/06/20 17:41	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	0.547	0.099		mg/Kg	03/09/20 14:11	B0C0297	GSB
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Client Sample Results

(Continued)

Client: Reserve Management Group**Client Sample ID:** RMT Dust**Project:** SCPM
RMT Dust**Report Date:** 03/10/2020**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Collection Date:** 03/05/2020 00:00**Matrix:** Soil**Lab ID:** 20C0345-01

Analyses	Result	EMT Reporting		Qual	Units	Date/Time Analyzed	Batch	Analyst
		Limit						
Metals by ICP-AES								
Method: SW6010C / SW3050								
Antimony	< 1.18	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Arsenic	< 1.18	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Barium	367	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Beryllium	< 0.500	0.500			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Cadmium	0.962	0.118			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Chromium	527	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Cobalt	6.20	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Copper	373	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Lead	46.1	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Manganese	4000	11.8			mg/Kg	03/06/20 17:45	B0C0225	KJ1
Nickel	74.5	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Phosphorus	869	58.9	Q, S3		mg/Kg	03/06/20 17:45	B0C0225	KJ1
Selenium	< 1.18	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Silver	< 1.18	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Titanium	183	1.18			mg/Kg	03/06/20 18:37	B0C0225	KJ1
Zinc	1660	47.2			mg/Kg	03/06/20 17:45	B0C0225	KJ1

Mercury by CVAA

Method: SW7471B

Mercury	< 0.095	0.095			mg/Kg	03/09/20 14:13	B0C0297	GSB
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Dates Report

Client: Reserve Management Group
Project: SCPM
 Paved
Work Order: 20C0342,20C0343,20C0344,20C0345

Report Date: 03/10/2020

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
20C0342-01	Paved	03/05/20	Soil	Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:23	B0C0225	S0C0113
				Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 17:32		
				Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:23		
				20C0343-01	Unpaved				
Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:36					B0C0225	S0C0113
Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 17:36						
Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:27						
Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:09	B0C0297	S0C0130				
20C0344-01	Napuck Dust			Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:32	B0C0225	S0C0113
				Silver, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:41		
				Nickel, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		
				Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 18:32		

Dates Report

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Work Order:** 20C0342,20C0343,20C0344,20C0345

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence		
20C0344-01	Napuck Dust	03/05/20	Soil	Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32	B0C0225	S0C0113		
				Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Copper, Total ICP-AES		03/06/20 09:49	03/06/20 17:41				
				Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:32				
				Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:11			B0C0297	S0C0130
				20C0345-01	RMT Dust					Nickel, Total ICP-AES	
Phosphorus, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Lead, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Antimony, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Selenium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Zinc, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Manganese, Total ICP-AES		03/06/20 09:49	03/06/20 17:45								
Titanium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Copper, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Chromium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Cobalt, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Cadmium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Beryllium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Barium, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Silver, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Arsenic, Total ICP-AES		03/06/20 09:49	03/06/20 18:37								
Mercury, Total CVAA		03/09/20 10:30	03/09/20 14:13	B0C0297	S0C0130						

Quality Control

Client: Reserve Management Group

Report Date: 03/10/2020

Project: SCPM
Napuck Dust

Matrix: Solid

Work Order: 20C0342, 20C0343, 20C0344, 20C0345

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050

Blank (B0C0225-BLK1)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 16:56

Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Antimony	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Arsenic	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Barium	< 2.50	2.50	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Beryllium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Cadmium	< 0.250	0.250	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Chromium	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Cobalt	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Copper	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Lead	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Manganese	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Blank (B0C0225-BLK1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 16:56

Nickel	< 2.50	2.50	mg/Kg							
Nickel	< 2.50	2.50	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Phosphorus	< 12.5	12.5	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Selenium	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Silver	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Titanium	< 2.50	2.50	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							
Zinc	< 10.0	10.0	mg/Kg							

LCS (B0C0225-BS1)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109
Antimony	43.7	2.50	mg/Kg	50.00		87.3	80-109
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108
Arsenic	41.3	2.50	mg/Kg	50.00		82.6	80-108
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112
Barium	40.2	2.50	mg/Kg	50.00		80.5	80-112
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110
Beryllium	4.22	0.250	mg/Kg	5.000		84.3	80.1-110
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**LCS (B0C0225-BS1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			
Cadmium	4.26	0.250	mg/Kg	5.000		85.3	80-110			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Chromium	41.8	2.50	mg/Kg	50.00		83.5	80-112			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Cobalt	42.5	2.50	mg/Kg	50.00		85.1	80-110			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Copper	42.2	2.50	mg/Kg	50.00		84.4	80.8-111			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Lead	41.5	2.50	mg/Kg	50.00		83.0	80-112			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Manganese	41.1	2.50	mg/Kg	50.00		82.2	80.1-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Nickel	41.5	2.50	mg/Kg	50.00		83.1	80-109			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Phosphorus	218	12.5	mg/Kg	250.0		87.1	80-120			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Selenium	41.7	2.50	mg/Kg	50.00		83.5	80-109			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Silver	4.22	2.50	mg/Kg	5.000		84.4	80-115			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			
Zinc	42.8	10.0	mg/Kg	50.00		85.6	80.2-111			

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Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Unpaved

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**LCS (B0C0225-BS1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:00

Serial Dilution (B0C0225-DUP1)**Source: 20C0340-02RE1**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:10

Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Beryllium	< 0.939	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Cadmium	< 1.17	5.87	mg/Kg		ND				10	
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Chromium	13.8	58.7	mg/Kg		12.1			13.4	10	P
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Lead	< 12.7	58.7	mg/Kg		ND				10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Phosphorus	142	293	mg/Kg		142			0.595	10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	
Selenium	< 23.5	58.7	mg/Kg		ND				10	

Serial Dilution (B0C0225-DUP2)**Source: 20C0340-02RE2**

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 19:03

Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Antimony	< 1.43	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Arsenic	< 2.35	5.87	mg/Kg		ND				10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Barium	16.4	5.87	mg/Kg		15.4			6.38	10	
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)

Serial Dilution (B0C0225-DUP2) (Continued) **Source: 20C0340-02RE2** *Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 19:03*

Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Cobalt	16.8	5.87	mg/Kg		14.1			17.5	10	P
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Copper	7.18	5.87	mg/Kg		6.97			3.02	10	
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Manganese	180	5.87	mg/Kg		158			13.1	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Nickel	40.7	5.87	mg/Kg		33.6			18.9	10	P
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Silver	< 1.17	5.87	mg/Kg		ND				10	
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P
Titanium	107	5.87	mg/Kg		95.2			11.2	10	P

MRL Check (B0C0225-MRL1)*Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:04*

Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Antimony	2.55	2.50	mg/Kg	2.500		102	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Arsenic	2.28	2.50	mg/Kg	2.500		91.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Barium	2.13	2.50	mg/Kg	2.500		85.2	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Beryllium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**MRL Check (B0C0225-MRL1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:04

Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Cadmium	0.225	0.250	mg/Kg	0.2500		90.0	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Chromium	2.20	2.50	mg/Kg	2.500		87.8	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Cobalt	1.72	2.50	mg/Kg	2.000		86.2	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Copper	2.20	2.50	mg/Kg	2.500		88.0	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Lead	2.29	2.50	mg/Kg	2.500		91.6	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Manganese	2.20	2.50	mg/Kg	2.500		88.2	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Nickel	2.22	2.50	mg/Kg	2.500		88.6	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Selenium	2.50	2.50	mg/Kg	2.500		100	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Titanium	1.96	2.50	mg/Kg	2.500		78.6	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			
Zinc	2.44	10.0	mg/Kg	2.500		97.8	70-130			

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike (B0C0225-MS1)****Source: 20C0340-02RE1***Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:58*

Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Beryllium	2.56	1.21	mg/Kg	2.413	0.446	87.5	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Cadmium	2.08	1.21	mg/Kg	2.413	ND	86.0	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Chromium	32.0	12.1	mg/Kg	24.13	12.1	82.6	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Lead	26.8	12.1	mg/Kg	24.13	5.42	88.4	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Phosphorus	261	60.3	mg/Kg	120.7	142	98.2	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			
Selenium	19.9	12.1	mg/Kg	24.13	ND	82.6	75-125			

Matrix Spike (B0C0225-MS2)**Source: 20C0340-02RE2***Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:50*

Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Antimony	6.33	1.21	mg/Kg	24.13	ND	26.2	75-125			S
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Arsenic	19.5	1.21	mg/Kg	24.13	0.777	77.8	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Barium	35.8	1.21	mg/Kg	24.13	15.4	84.6	75-125			
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S
Cobalt	31.6	1.21	mg/Kg	24.13	14.1	72.3	75-125			S

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike (B0C0225-MS2) (Continued)****Source: 20C0340-02RE2****Prepared: 03/06/2020 09:49****Analyzed: 03/06/2020 18:50**

Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Copper	27.1	1.21	mg/Kg	24.13	6.97	83.2	75-125			
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Manganese	165	1.21	mg/Kg	24.13	158	32.2	75-125			S
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Nickel	57.2	1.21	mg/Kg	24.13	33.6	97.8	75-125			
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Silver	1.11	1.21	mg/Kg	2.413	ND	46.1	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Titanium	97.6	1.21	mg/Kg	24.13	95.2	9.84	75-125			S
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			
Zinc	51.0	4.83	mg/Kg	24.13	26.9	99.6	75-125			

Matrix Spike Dup (B0C0225-MSD1)**Source: 20C0340-02RE1****Prepared: 03/06/2020 09:49****Analyzed: 03/06/2020 18:02**

Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Beryllium	2.63	1.15	mg/Kg	2.307	0.446	94.7	75-125	2.80	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Cadmium	2.08	1.15	mg/Kg	2.307	ND	90.0	75-125	0.0679	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Chromium	36.7	11.5	mg/Kg	23.07	12.1	107	75-125	13.6	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	
Lead	26.9	11.5	mg/Kg	23.07	5.42	93.2	75-125	0.619	20	

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike Dup (B0C0225-MSD1) (Continued)** **Source: 20C0340-02RE1** *Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:02*

Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Phosphorus	294	57.7	mg/Kg	115.4	142	131	75-125	11.9	20	S
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	
Selenium	20.4	11.5	mg/Kg	23.07	ND	88.3	75-125	2.19	20	

Matrix Spike Dup (B0C0225-MSD2) **Source: 20C0340-02RE2** *Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 18:55*

Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Antimony	6.77	1.15	mg/Kg	23.07	ND	29.3	75-125	6.65	20	S
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Arsenic	18.7	1.15	mg/Kg	23.07	0.777	77.5	75-125	4.59	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Barium	35.0	1.15	mg/Kg	23.07	15.4	84.9	75-125	2.28	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Cobalt	35.3	1.15	mg/Kg	23.07	14.1	91.6	75-125	11.0	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Copper	26.9	1.15	mg/Kg	23.07	6.97	86.3	75-125	0.628	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Manganese	175	1.15	mg/Kg	23.07	158	76.2	75-125	5.76	20	
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Nickel	65.5	1.15	mg/Kg	23.07	33.6	138	75-125	13.5	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S
Silver	1.01	1.15	mg/Kg	2.307	ND	43.8	75-125	9.59	20	S

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Matrix Spike Dup (B0C0225-MSD2) (Continued)****Source:** 20C0340-02RE2**Prepared:** 03/06/2020 09:49 **Analyzed:** 03/06/2020 18:55

Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Titanium	108	1.15	mg/Kg	23.07	95.2	57.2	75-125	10.5	20	S
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	
Zinc	45.8	4.61	mg/Kg	23.07	26.9	81.8	75-125	10.6	20	

Post Spike (B0C0225-PS1)**Source:** 20C0340-02RE1**Prepared:** 03/06/2020 09:49 **Analyzed:** 03/06/2020 18:06

Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Beryllium	121	1.17	mg/Kg	117.3	0.446	102	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Cadmium	113	1.17	mg/Kg	117.3	ND	96.1	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Chromium	129	11.7	mg/Kg	117.3	12.1	99.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Lead	114	11.7	mg/Kg	117.3	5.42	92.4	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Phosphorus	260	58.7	mg/Kg	117.3	142	100	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			
Selenium	117	11.7	mg/Kg	117.3	ND	99.5	80-120			

Post Spike (B0C0225-PS2)**Source:** 20C0340-02RE2**Prepared:** 03/06/2020 09:49 **Analyzed:** 03/06/2020 18:59

Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Antimony	11.0	1.30	mg/Kg	13.04	ND	84.6	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
RMT Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Post Spike (B0C0225-PS2) (Continued)****Source: 20C0340-02RE2***Prepared: 03/06/2020 09:49**Analyzed: 03/06/2020 18:59*

Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Arsenic	13.1	1.30	mg/Kg	13.04	0.777	94.8	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Barium	26.6	1.30	mg/Kg	13.04	15.4	86.4	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Cobalt	24.8	1.30	mg/Kg	13.04	14.1	82.2	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Copper	19.0	1.30	mg/Kg	13.04	6.97	92.0	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Manganese	170	1.30	mg/Kg	13.04	158	91.9	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Nickel	44.3	1.30	mg/Kg	13.04	33.6	81.7	80-120			
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Silver	8.65	1.30	mg/Kg	13.04	ND	66.3	80-120			S
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Titanium	106	1.30	mg/Kg	13.04	95.2	84.2	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			
Zinc	39.1	5.22	mg/Kg	13.04	26.9	93.0	80-120			

Reference (B0C0225-SRM1)*Prepared: 03/06/2020 09:49**Analyzed: 03/06/2020 17:08*

Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Antimony	19.6	25.0	mg/Kg	27.03		72.3	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
RMT Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Reference (B0C0225-SRM1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:08

Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Arsenic	37.6	25.0	mg/Kg	52.55		71.7	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Barium	116	25.0	mg/Kg	148.7		77.9	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Beryllium	73.6	2.50	mg/Kg	109.7		67.1	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Cadmium	37.0	2.50	mg/Kg	48.65		76.0	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Chromium	106	25.0	mg/Kg	142.2		74.2	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Cobalt	27.8	25.0	mg/Kg	36.65		76.0	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Copper	16.6	25.0	mg/Kg	27.08		61.3	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Lead	112	25.0	mg/Kg	148.1		75.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Manganese	400	25.0	mg/Kg	600.1		66.7	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Nickel	45.4	25.0	mg/Kg	58.38		77.8	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			
Selenium	91.5	25.0	mg/Kg	123.3		74.2	50-150			

Quality Control

(Continued)

Client: Reserve Management Group**Report Date:** 03/10/2020**Project:** SCPM
Napuck Dust**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Metals by ICP-AES**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0225 - SW3050 (Continued)**Reference (B0C0225-SRM1)** (Continued)

Prepared: 03/06/2020 09:49 Analyzed: 03/06/2020 17:08

Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Silver	11.8	25.0	mg/Kg	13.52		87.7	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Titanium	291	25.0	mg/Kg	460.1		63.3	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			
Zinc	378	100	mg/Kg	483.3		78.2	50-150			

Quality Control

(Continued)

Client: Reserve Management Group
Project: SCPM
Napuck Dust

Report Date: 03/10/2020**Matrix:** Solid**Work Order:** 20C0342, 20C0343, 20C0344, 20C0345**Mercury by CVAA**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch: B0C0297**Blank (B0C0297-BLK1)**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:02

Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							
Mercury	< 0.100	0.100	mg/Kg							

LCS (B0C0297-BS1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:04

Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			
Mercury	0.546	0.100	mg/Kg	0.5000		109	89.7-115			

MRL Check (B0C0297-MRL1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 13:52

Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			
Mercury	0.236	0.100	mg/Kg	0.2000		118	70-130			

Matrix Spike (B0C0297-MS1)**Source: 20C0340-02**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:22

Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			
Mercury	0.491	0.096	mg/Kg	0.4790	ND	102	75-125			

Matrix Spike Dup (B0C0297-MSD1)**Source: 20C0340-02**

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:24

Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	
Mercury	0.489	0.096	mg/Kg	0.4781	ND	102	75-125	0.498	20	

Reference (B0C0297-SRM1)

Prepared: 03/09/2020 10:30 Analyzed: 03/09/2020 14:06

Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			
Mercury	0.200	0.100	mg/Kg	0.1991		101	50-150			

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW6010C in Solid		
Antimony	7440-36-0	DoD,ISO,WDNR,ILEPA
Arsenic	7440-38-2	DoD,ISO,AKDEC,WDNR,ILEPA
Barium	7440-39-3	DoD,ISO,AKDEC,WDNR,ILEPA
Beryllium	7440-41-7	DoD,ISO,WDNR,ILEPA
Cadmium	7440-43-9	DoD,ISO,AKDEC,WDNR,ILEPA
Chromium	7440-47-3	DoD,ISO,AKDEC,WDNR,ILEPA
Cobalt	7440-48-4	DoD,ISO,WDNR,ILEPA
Copper	7440-50-8	DoD,ISO,WDNR,ILEPA
Lead	7439-92-1	DoD,ISO,AKDEC,WDNR,ILEPA
Manganese	7439-96-5	DoD,ISO,WDNR,ILEPA
Nickel	7440-02-0	DoD,ISO,AKDEC,WDNR,ILEPA
Phosphorus	7723-14-0	DoD
Selenium	7782-49-2	DoD,ISO,WDNR,ILEPA
Silver	7440-22-4	DoD,ISO,WDNR,ILEPA
Titanium	7440-32-6	DoD,WDNR,ILEPA
Zinc	7440-66-6	DoD,ISO,WDNR,ILEPA
SW7471B in Solid		
Mercury	7439-97-6	ISO,DoD,WDNR,ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	04/30/2020
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	04/30/2020
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	04/30/2020
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-1	07/27/2020
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	04/30/2020
TX	Texas Commission of Environmental Quality	T104704554-19-4	10/31/2020
WA	Washington State Department of Ecology	C1057	01/05/2021
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2020

Qualifiers and Definitions

Item	Description
P	The quality control sample %RPD is above the laboratory control limit.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S3	The percent recovery was outside the limits, but the analyte is reported within the calibration range. Data is acceptable.
%Rec	Percent Recovery

ENVIRONMENTAL MONITORING TECHNOLOGIE

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0342

PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

TURNAROUND TIME:
 RUSH
 ROUTINE
_____ day turnaround

67-6666
847-967-6735
www.emt.com

Due Date: 3/10/20 COC #: 233102

Company: RMG

Address: _____

Phone #: 440, 287-7209 Fax #: () _____

P.O. #: _____ Proj. #: _____

Client Contact: MARK WEINTRAUB

Project ID / Location: SCPM

Analyses

Sample Type:
1. Waste Water
2. Drinking Water
3. Soil
4. Sludge
5. Oil
6. Groundwater
7. Groundwater (filtered)
8. Other

Container Type:
P - Plastic
G - Glass
V - VOC Vial
B - Tedlar Bag
Other

Preservative:
None
2. H₂SO₄
3. HNO₃
4. NaOH
5. HCl
6. MeOH
7. Zn Ace
8. Other

AB BA BE
CB CR CG CH
SE TI ZN Hg

EMT USE ONLY

EMT WORKORDER # 2000342

PAVED

Date: 3/6/20

By: 1

X X X X

OIA

Relinquished By: _____

Relinquished By: _____

Relinquished By: _____

Date: 3-5-20
Time: 16:00

Date: - -
Time: - -

Date: - -
Time: - -

Received By: _____

Received By: _____

Received For Lab By: Agathe Zuh

Date: - -

Time: - -

Date: - -

Time: - -

Date: 3-5-20

Time: 16:00

EMT USE ONLY

Client Code: _____

EMT Project I.D.:

Jar Lot No.

SAMPLE RECEIVED ON ICE

TEMPERATURE

R 010772

23.3

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0342

Printed: 3/5/2020 4:20:46PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:02

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ

3/5/20



ENVIRONMENTAL MONITORING TECHNOLOG

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0343

PM, Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

7-967-6666
X: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH
 ROUTINE

Due Date: **3 NOV 20** COC #: **233105**

Company: RM6

Address:

Phone #: 640 287 7209 Fax #: ()

P.O. #: MARK WEINTRAUB Proj. #:

Client Contact: MARK WEINTRAUB

Project ID / Location: SCPM

Analyses

- Sample Type:**
1. Waste Water
2. Drinking Water
3. Soil
4. Sludge
5. Oil
6. Groundwater
7. Groundwater (filtered)
8. Other

- Container Type:**
P - Plastic
G - Glass
V - VOC Vial
B - Tedlar Bag
O - Other

- Preservative:**
1. None
2. H2SO4
3. HNO3
4. NaOH
5. HCl
6. MeOH
7. Zn Ace
8. Other

AS BA BE
G CR CO CU
Pb ML NL P HG
Se Ti Zn Ag

EMT USE ONLY

EMT WORKORDER # 20C0343

Sampling Preservation

Time Date pH Temp. Field Lab

3/5/20

~~1~~

1

UNPAVED

OIA

Relinquished By: [Signature]

Date: 3-5-20

Time: 16:00

Received By:

Date:

Time:

EMT USE ONLY

SAMPLE RECEIVED ON ICE

TEMPERATURE

Relinquished By:

Date:

Received By:

Date:

Time:

Client Code:

EMT Project I.D.

Relinquished By:

Date:

Received For Lab By:

Date:

Time:

Job/Lot No.

Date: 3-5-20

Time: 16:00

Date: 3-5-20

Time: 16:00

Job/Lot No.

23.3

R 010774

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0343

Printed: 3/5/2020 4:15:45PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

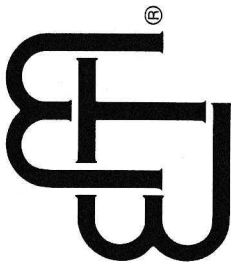
Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:13

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20

ENVIRONMENTAL MONITORING TECHNOLOGI



509 N. 3rd Avenue
Des Plaines, IL 60016



20C0344

PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Main of Custody Record

967-6666
: 847-967-6735
w.emt.com

TURNAROUND TIME:
 RUSH
 ROUTINE
day turnaround

Due Date: **3-10-20** COC #: **233103**

Company: RMG

Address:

Phone #: 440-287-7209 Fax #: () -

P.O. #: Proj. #:

Client Contact: MARK WENZEL

Project ID / Location: SCPM

Sample Type:
1. Waste Water
2. Drinking Water
3. Soil

4. Sludge
5. Oil
6. Groundwater
7. Groundwater (filtered)
8. Other

Container Type:
P - Plastic
G - Glass

V - VOC Vial
B - Tedlar Bag

Preservative:

1. None
2. H2SO4
3. HNO3
4. NaOH
5. HCl
6. MeOH
7. Zn Ace
8. Other

Analyses

	EMT USE ONLY
	EMT WORKORDER
	# <u>20C0344</u>

SB, A, B, BA, BE, CR, CO, CU, PB, NI, NP, Hg, SE, TI, ZN, AS, Hg

Sample I.D.	Sample Type	Container			Sampling			Preservation		
		Size	Type	No.	Date	Time	By	Temp.	Field	Lab

<u>NAROCK DUST</u>				<u>1</u>	<u>3/5/20</u>						<u>X X X X</u>				<u>O 1A</u>

Relinquished By: <u>[Signature]</u>	Date: <u>3-5-20</u> Time: <u>16:00</u>	Received By:	Date: - Time: -	EMT USE ONLY	<input type="checkbox"/> SAMPLE RECEIVED ON ICE	R 010776
Relinquished By:	Date: - Time: -	Received By:	Date: - Time: -	Client Code:	<input checked="" type="checkbox"/> TEMPERATURE	
Relinquished By:	Date: - Time: -	Received For Lab By: <u>[Signature]</u>	Date: <u>3-5-20</u> Time: <u>16:00</u>	Jar/Lot No.:	<u>233</u>	

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0344

Printed: 3/5/2020 4:17:27PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:16

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20



ENVIRONMENTAL MONITORING TECHNOLOG

509 N. 3rd Avenue
Des Plaines, IL 60016



20C0345

PM: Mark Steuer
Reserve Management Group
Residential Soil Analysis

Chain of Custody Record

47-967-6666
AX: 847-967-6735
www.emt.com

TURNAROUND TIME:
 RUSH _____ day turnaround
 ROUTINE

Due Date: **3 10 20** COC #: **233101**

Company: RMG
Address: _____
Phone #: (440) 287-7209 Fax #: ()
P.O. #: _____ Proj. #: _____
Client Contact: MARK WEINTRAUB
Project ID / Location: SCPM

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:
P - Plastic V - VOC Vial 9 - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H2SO4 5. HCl 8. Other
3. HNO3 6. MeOH

Sample I.D.	Sample Type	Container			Sampling			Preservation			EMT USE ONLY	WORKORDER #	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field			Lab
RMT DUST				1		3/5/20							

Relinquished By: _____
Date: 3-5-20 Time: 16:00

Received By: _____
Date: - - Time: - -

Relinquished By: _____
Date: - - Time: - -

Received By: _____
Date: - - Time: - -

Relinquished By: _____
Date: - - Time: - -

Received For Lab By: Agustin
Date: - - Time: - -

Date: 3-5-20 Time: 16:00

Jar Lot No. _____

EMT USE ONLY _____

Client Code: _____

EMT Project I.D. _____

SAMPLE RECEIVED ON ICE

TEMPERATURE

R 010778

23.3

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS:

Sample Receipt Checklist

Work Order: 20C0345

Printed: 3/5/2020 4:19:35PM

Client: Reserve Management Group
Project: Residential Soil Analysis

Date Due: Tuesday, March 10, 2020

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 03/05/20 16:00
Date Logged In: 03/05/20 16:18

Sample Temperature at Receipt:	23.3°C
How were samples received?	Client
Custody Seals Present	No
Custody Seals Intact	NA
Sample Containers Intact	Yes
COC Present and Complete	Yes
COC agrees with Sample Labels	Yes
Containers Properly Preserved	Yes
Samples Received Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No

Comments

ABZ
3/5/20

Layman, Robb

From: Zwick, Ann M. <azwick@freeborn.com>
Sent: Friday, March 27, 2020 11:54 AM
To: Layman, Robb
Subject: [External] FW: Revised SCPM Metal Emissions Analysis.
Attachments: 2020-03-20 Final Response to Questions on GIII Modeling.pdf

ANN M. ZWICK
Attorney at Law
(312) 360-6254 office
(312) 952-1651 mobile
azwick@freeborn.com

From: John Pinion [<mailto:jpinion@rka-inc.com>]
Sent: Friday, March 20, 2020 2:13 PM
To: IEPA Sprague, Jeff (jeff.sprague@illinois.gov)
Cc: IEPA Layman, Robb (robb.layman@illinois.gov); 'IEPA Bernoteit, Bob (bob.bernoteit@illinois.gov)'; IEPA Barria, German (german.barria@illinois.gov); Bloomberg, David E.; Zwick, Ann M.; Reserve Management Group; Stropko, Dennis
Subject: Revised SCPM Metal Emissions Analysis.



Jeff,

Please find attached a revised SCPM metals emissions estimate. The attached document addresses the questions in your e-mail of March 17, 2020, and is consistent with our responses to those questions e-mailed to you earlier today.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Layman, Robb

From: Nguyen, Phuong <Nguyen.Phuong@epa.gov>
Sent: Friday, May 29, 2020 4:04 PM
To: Sprague, Jeff
Cc: Layman, Robb; Bernoteit, Bob; Barria, German; Sprague, Jeff
Subject: [External] RE: Questions Regarding General III

Hi Jeff,

Thank you for taking the time to address our questions. I will take a look and let you know if further discussion is needed.

Have a good weekend.

Phuong Nguyen
US EPA Region 5
Air and Radiation Division
Air Toxics and Assessment Branch
312-886-6701

From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Friday, May 29, 2020 2:37 PM
To: Nguyen, Phuong <Nguyen.Phuong@epa.gov>
Cc: Layman, Robb <Robb.Layman@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@illinois.gov>; Barria, German <German.Barria@Illinois.gov>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: RE: Questions Regarding General III

Phuong,

It's taken me a bit longer than expected to prepare responses to your questions, but they're in ***bold, italicized*** text following each of your seven questions/comments in the accompanying ".pdf" file. I don't think there's a need to schedule a call, but after reading my responses, you may feel a need to discuss them, so just let me know.

Have a great weekend!

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

Jeff.Sprague@Illinois.gov

From: Nguyen, Phuong <Nguyen.Phuong@epa.gov>
Sent: Friday, May 29, 2020 10:47 AM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] FW: Questions Regarding General III

Good morning Jeff,

Just wanted to follow-up with you on this. Would you like to schedule a call with us to discuss our questions ?

Thanks,
Phuong

From: Nguyen, Phuong
Sent: Wednesday, May 20, 2020 2:54 PM
To: 'Sprague, Jeff' <Jeff.Sprague@Illinois.gov>
Subject: RE: Questions Regarding General III

Hi Jeff,
Sorry, we missed you this morning. Attached are some of our questions on the modeling analysis. Please clarify them as much as you could. Let me know if you would like to set up a call to discuss these questions.

Thanks,
Phuong

From: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Sent: Wednesday, May 20, 2020 12:48 PM
To: Nguyen, Phuong <Nguyen.Phuong@epa.gov>
Cc: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: Questions Regarding General III

Phuong,

I received an email from Bob Bernoteit, our FESOP/State Permits Unit Manager, that on a conference call earlier this morning with you folks regarding the General III construction permit, that you had “quite a few modeling questions” that he was unable to answer. I’m happy to try and answer those questions, but it would probably work best if you wrote them down and sent them to me in an email.

Thanks,

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

Jeff.Sprague@Illinois.gov

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Air Dispersion Modeling Questions.

1. The air dispersion modeling for lead and manganese (Mn) included sources from General Iron and offsite sources (as provided by Illinois EPA). There were 131 sources included in the lead modeling and 157 sources included in the Mn modeling. To facilitate review of all model inputs, please include in the permit record tables and files that list all final modeling input parameters utilized in the AERMOD runs, including the emission rates for each modeled emission source. Without these files, it is very difficult to verify the input data.

The Illinois EPA used the information provided by the consultant in text, tables, and figures to evaluate and verify modeling inputs, and did not reduce the information to separate and potentially more convenient forms for usage and distribution. The applicant's modeling protocol contained tables with complete listings of the offsite lead sources (Table 3-1) and offsite manganese sources (Table 3-3) and the modeling input parameters used for each of these sources. I have attached the spreadsheets generated by the Illinois EPA and provided to the consultant that represent the basis of those tables. Incidentally, there were only 124 lead sources modeled, not 131. This initial offsite source inventory required corrections to the modeling parameters for the American Zinc Recycling (Horsehead Corporation) and Holcim (US), Inc. facilities, and I have attached emails that indicate the nature of the changes implemented. The specific release parameters for the hammermill shredder as well as the dust collector for the non-ferrous metal processing system are specifically included on pages 5 and 7 of the Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, dated January 24, 2020. A preponderance of modeled sources were volume sources representing process and roadway emissions. The volume source characteristics provided in Tables 3-6 and 3-7 in the February 12, 2020 Supplement No. 1 to the January 24, 2020 Air Dispersion Modeling report represent the necessary modeling input parameters. Within that same document, the tables in Attachment A and Attachment B provide the emissions information for those same volume sources.

2. It appears the hourly emission factors (HRDOW) for sources from General Iron were applied in all AERMOD runs for lead, Mn and 15 other metals. However, it is unclear if General Iron calculated hourly emission factors using the operating hours defined in Condition 12a of the draft permit and section 2.6 of the supplemental modeling report (Supplement No.1, dated February 12, 2020), or using the proposed maximum monthly and annual material throughput rates as discussed in section 3.1 of the Updated Emission Estimates document, dated January 27, 2020, and demonstrated emission factors. Please clarify how emission rates used in the AERMOD runs were calculated.

The underlying basis of the metal emission rates implemented in the AERMOD runs includes: 1.) the June 2018 measurements of metal HAPs in the roll media filter discharge at the General Iron Industries, Inc. facility, 2.) compliance testing conducted in November 2019 for the hammermill shredder RTO, 3.) laboratory analysis of "material deposition"

samples collected in December 2019, and 4.) estimated particulate matter emissions which were typically derived from AP-42 emission factors. For the shredder, the testing-derived emission factors were “multiplied by the maximum hourly shredder feed rate and a safety factor” to derive the emission rate. For process and roadway fugitive emissions, total particulate matter emissions calculated for volume source groups were multiplied by the metal concentration fractions derived from the laboratory analysis and then allocated to the individual volume sources. Dust collector (DC-1) emissions were derived from the estimated PM emission rate multiplied by the metals concentrations of material deposition samples. The emissions for particular hours on a weekday, Saturday, or Sunday would depend on the operating schedule specified in Condition 12a of the draft permit, that is, whether the emissions-generating activity was active or non-active. The proposed maximum monthly and annual material throughput rates in the Updated Emissions Estimates document, Section 3.1, are not directly linked to the modeled hourly emission rates, because the “construction permit application does not rely on operating hours to estimate monthly or annual emissions”. This same document does indicate that the updated metal emission rates were incorporated into the air dispersion modeling assessment.

3. Building downwash was included in all AERMOD runs. However, documents included in the permit record do not include detailed information on building locations and their dimensions. Also, no building input file (BPI) is available for EPA review. Please include in the permit record detailed information on building locations and their dimensions.

The modeling protocol clearly indicates that detailed building information was provided by General III, LLC to the consultant (RK & Associates, Inc.). That detailed information was not included in the modeling protocol nor in any of the documentation supporting the modeling analysis. Site diagrams were provided, but without distance scales. The applicant had requested that certain information be kept TRADE SECRET, and though it is not known if exact building dimensions and configurations were considered as such, the Agency’s modeling staff did not pursue acquiring that information either in tabulated form or as a BPIP-Prime input file. It is noteworthy, that the building downwash analysis did evaluate the proposed General III facility structures as well as “the two existing buildings south of the proposed GIII location”, with “the highest roof top height” for the two buildings assigned as the building height. The coordinates for building corners “were determined using Google Earth”.

4. The receptor network extended out to 5 km from the property line, with a 50-meter spacing along the property line. The 50-meter spacing should extend out at least 2 km from the property line to better predict the impacts around the community.

This suggestion to expand 50-meter receptor spacing beyond the fenceline is a departure from established and ongoing dispersion modeling practice. It is standard procedure to determine areas of maximum impact to within 100-meter resolution. If U.S. EPA Region 5

wishes to make 50-meter spacing the new resolution “standard”, there should be agreement within the modeling community that this is appropriate and necessary within a regulatory context.

5. Table 3-8 of the January 27 “Updated Emissions Estimates” indicates at least ten (10) organic hazardous air pollutants (HAPs) and two (2) inorganic acid HAPs (hydrogen fluoride and hydrochloric acid) will be emitted from the facility. However, it is not clear whether the applicant modeled these emissions. Please clarify whether emissions of all organic and acid HAPs were modeled and if not, explain why they were not modeled.

The applicant’s modeling analysis focused exclusively on metal HAPs, as directed by the Illinois EPA. The analysis was patterned after a metal HAPs analysis conducted for the General Iron Industries, Inc. facility (1909 North Clifton Avenue, Chicago, IL), but with added consideration to specific offsite facilities emitting lead (Pb) and manganese (Mn). Though organic HAPs and inorganic acid HAPs will be emitted from the proposed facility (11600 South Burley, Chicago, IL), the quantity of emissions will be quite small. The proposed packed bed scrubber will be designed to remove 99% of the acid gases, and the regenerative thermal oxidizer (RTO) is expected to achieve 98% control of VOM and organic HAPs. This was considered an adequate basis for not requiring modeling for these compounds. Table 3-1C of the permit application provides quantitative estimates of controlled organic HAP emissions from the shredder, and Tables 3-1D and 3-6 provide organic HAP emission estimates for natural gas combustion sources. Table 3-1C in the Updated Emissions Estimate document (January 27, 2020) provides a combined summary of estimated organic HAP and inorganic acid HAP emissions for the Shredder RTO/Scrubber.

6. The Wisconsin Air Toxics Rule (NR 445) 24-hour and annual risk screening thresholds used for some pollutants might not be appropriate for the off-site health risk evaluation. While the Wisconsin NR 445 values may have utility for evaluating short-term acute exposure risk to workers located at the site, they are not suitable for evaluating the ambient exposures to the public located off-site. EPA suggests that the more appropriate values would be the ATSDR Minimal Risk Levels for chronic inhalation exposure, which are already used as comparison values for Antimony, Cadmium, Cobalt, Manganese, Nickel, and Mercury as shown in Table 3-5 of the January 24 Air Dispersion Modeling Report.

The air contaminant thresholds appearing in Table A of the Wisconsin Air Toxics Rule (NR 445) are identified as ambient air quality standards intended to protect human health and the environment (plant and animal life), they have not been promulgated as industrial workplace/worker safety standards in this administrative rule. Though many of these standards are based on Threshold Limit Values established by the American Conference of Governmental Industrial Hygienists (ACGIH), that does not invalidate their use for “off-site health risk evaluation” and as appropriate concentration levels to protect human health and the environment. The preference for using ATSDR Minimal Risk Levels for

evaluating inhalation exposure to the public is acknowledged, however, such standards are not available for many of the metal HAPs modeled for 24-hour and annual averaging periods.

7. The VOM emissions from the Shredder/RTO were based on a design report for the RTO/Scrubber and organic HAP emissions were based on emission factors derived from a literature publication (Institute of Scrap Recycling Industry Workbook). These emissions were adjusted to 98% removal by the RTO based on either the RTO design or the results of November 2019 Compliance Testing. To ensure actual emissions remain below permitted levels, the draft permit should require the RTO to achieve a minimum 98% removal efficiency of VOM and organic HAP emissions.

This comment is more appropriately directed to IEPA Permit Section staff with responsibility for reviewing the General III, LLC application (please contact Bob Bernoteit at Bob.Bernoteit@Illinois.gov).

Layman, Robb

From: Sprague, Jeff
Sent: Thursday, January 9, 2020 2:26 PM
To: John Pinion
Cc: Sprague, Jeff; Bernoteit, Bob; Layman, Robb; Barria, German; Patel, Minesh; Romaine, Chris
Subject: RE: Downwash data
Attachments: HorseheadCorp.PIP; HorseheadCorp.SO; HorseheadCorp.SUM; HorseheadCorp.TAB

Yes, I'm forwarding the BPIP-PRIME input and output files (see attached) with this response. The direction-specific building data inputs for Kiln #1 can be ignored. Note, however, that the Kiln #2 stack height (31.089 meters) and diameter (2.133 meters) should be increased, and the exit velocity decreased (0.543 meters/second), based upon information that we found on file for this facility. The location coordinates for all three of the American Zinc Recycling sources should be adjusted based upon the coordinates assigned to them in the BPIP-PRIME input file.

Jeff

Jeffrey Sprague
Modeling Unit, Manager
Air Quality Planning Section
Bureau of Air
Illinois Environmental Protection Agency

(217) 524-4692

Jeff.Sprague@Illinois.gov

From: John Pinion <jpinion@rka-inc.com>
Sent: Thursday, January 9, 2020 12:22 PM
To: Sprague, Jeff <Jeff.Sprague@Illinois.gov>
Subject: [External] Downwash data



Any word on the downwash data?

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555

Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Layman, Robb

From: John Pinion <jpinion@rka-inc.com>
Sent: Thursday, January 9, 2020 6:48 PM
To: Sprague, Jeff
Subject: [External] source inventory data
Attachments: 2019-11 Holcim FESOP 031600FHQ.pdf; Lead Emissions from Holcim US 2150 E 130th St Chi.xlsx



Jeff,

I reviewed the source inventory for Holcim's cement terminal and prepared the summary in the attached Excel file. A copy of the facility FESOP is also attached.

It appears that the emission rates and the stack height (at least for the cement silo) are not consistent with what is in the facility's FESOP permit and what can be seen on Google Earth.

It appears that top of the filter on the roof of the cement silo is approximately 90 ft compared to 50 ft as identified in the inventory.

The FESOP permit does not include any metal emission limits for any source at the facility.

The cement silo emission rate in the inventory appears to be about 200 times greater than the calculated emission rate using the information in the FESOP permit (annual cement silo throughput x controlled Pb emission factor for silo loading and 5,840 hr/year) as summarized in the attached file.

Our contribution to the predicted concentration at the receptor that falls within Holcim's plant is zero.

If the Pb inventory data for this source is suspect (as it appears based on the information in the attached Excel file), we should consider removing this source from the Pb inventory.

I will call you in the morning to discuss your thoughts.

If you have any questions, please do not hesitate to contact me.

Regards,
John Pinion

RK & Associates, Inc.
2 South 631 Route 59, Suite B
Warrenville, Illinois 60555
Phone: 630-393-9000 x 208
Fax: 630-393-9111
Cell: 630-917-1455
E-mail: jpinion@rka-inc.com

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Layman, Robb

From: James OPOLONY <james.opolony@lafargeholcim.com>
Sent: Tuesday, January 14, 2020 7:59 AM
To: Barria, German
Cc: Alyssa Makridakis; Peter Kossis; Sprague, Jeff; Bernoteit, Bob
Subject: Re: [External] Re: Holcim (US), Inc. - ID #031600FHQ
Attachments: Truck Unloading Hopper (P01A) underground.jpg; Venting Stack S10 & Main Distrubution Silo (P23) .jpg; Main Distribution Silo (P23) .jpg; Hopper Belt (P02) with Truck Unloading Hopper (P01A) underground - Copy.jpg; Truck Unloading Hopper (P01A) above ground .jpg; Bucket Elevator (P03) and Day Bin (P04) .jpg

Should work this time, let me know if you have any further issues accessing the pictures.

On Mon, Jan 13, 2020 at 3:27 PM James OPOLONY <james.opolony@lafargeholcim.com> wrote:
Files were too large to attach on one email, I'll see if I can change the sharing settings or send again.

On Mon, Jan 13, 2020, 3:21 PM Barria, German <German.Barria@illinois.gov> wrote:

I wont be able to see the pictures since they are in your company network drive. See below:

You might have to attach them differently.

German Barria

Enviromental Protection Specialist,

IEPA, Bureau of Air, Permit Section, FESOP/LOP Unit

Phone: 217-785-0767

From: James OPOLONY <james.opolony@lafargeholcim.com>
Sent: Monday, January 13, 2020 2:56 PM
To: Barria, German <German.Barria@Illinois.gov>; Alyssa Makridakis <alyssa.makridakis@lafargeholcim.com>
Cc: Peter Kossis <peter.kossis@lafargeholcim.com>; Sprague, Jeff <Jeff.Sprague@Illinois.gov>; Bernoteit, Bob <Bob.Bernoteit@Illinois.gov>
Subject: Re: [External] Re: Holcim (US), Inc. - ID #031600FHQ



[Bucket Elevator \(P03\) and Day Bin \(P04\) .jpg](#)



[_Hopper Belt \(P02\) with Truck Unloading Hopper \(...\)](#)



[Main Distribution Silo \(P23\) .jpg](#)



[_Truck Unloading Hopper \(P01A\) above ground .jpg](#)



[Truck Unloading Hopper \(P01A\) underground.jpg](#)



[_Venting Stack S10 & Main Distrubution Silo \(P23...](#)

Hello German,

I've attached some pictures, as well as the diagrams we submitted with our Fugitive Dust Plan, that I think will be helpful. P01-P04 is the process of moving the wet granulated slag from the truck into the storage silo we refer to as the Day Bin. There is no "stack" on the silo in the traditional sense, but small access doors do allow for some venting (this is referred to as a vent on the diagram provided). The material does indeed flow continuously until it arrives in the Day Bin, as you said.

The second emission unit you've inquired about refers to the system we use to transfer the finished cement. Once the wet granules are dried and ground in the mill process, the material ends in Silo 10 (P14). From here, the material moves via air slide into the surge bin (P15A) and then into the pipe (P21) running to the distribution silo (P23). The dust collector on this silo (DC01) has a small rectangular exhaust fan, listed as S10. This can be seen on slides 2 and 4 of the attached presentation.

If you'd like any additional information, diagrams, or pictures please let me know.

Thanks,

Jim

On Mon, Jan 13, 2020 at 11:24 AM James OPOLONY <james.opolony@lafargeholcim.com> wrote:

Hello German,

Thanks for sending me the list. We'll get to work and get back to you as soon as we can.

Thanks,
Jim

On Mon, Jan 13, 2020 at 11:21 AM Barria, German <German.Barria@illinois.gov> wrote:

Jim,

Per our phone conversation,

The emission points that we are wanting clarification are the following:

Truck Unloading Hopper (P01A) Venting to P02;

Hopper Belt (P02) Venting to P03;

Bucket Elevator (P03) Venting to P04;

Day Bin (P04) Venting to Stack 01;

It seems that there is a continuous flow of venting P01A to P02 to P03 to P04 and finally venting to stack 01, we would like you to provide us with a diagram, stack dimensions, and images of how that arrangement looks like.

The other emission unit that we would like the same sort of diagram and image will be the

Loading from Surge Bin (P15A/P21) to Main Distribution Silo (P23) Controlled by Dust Collector (DC01) Venting to Stack S10;

We would like this information as soon as possible. In the next couple of days if so.

I greatly appreciate your help with this matter.

Thank you,

German Barria

Environmental Protection Specialist,

IEPA, Bureau of Air, Permit Section, FESOP/LOP Unit

Phone: 217-785-0767

From: Peter Kossis <peter.kossis@lafargeholcim.com>

Sent: Monday, January 13, 2020 10:51 AM

To: Barria, German <German.Barria@Illinois.gov>; James OPOLONY <james.opolony@lafargeholcim.com>

Subject: [External] Re: Holcim (US), Inc. - ID #031600FHQ

James Opolony

(847) 721-7753 (c)

(773) 646-3150 (o)

Pls call and Jim can help you with additional information.

On Mon, Jan 13, 2020 at 10:44 AM Peter Kossis <peter.kossis@lafargeholcim.com> wrote:

Hello German:

My mobile number is (312) 623-1658 - it should be on the emails.

Thx

Peter

On Mon, Jan 13, 2020 at 10:40 AM Barria, German <German.Barria@illinois.gov> wrote:

Mr. Kossis,

I'm contacting you in regard to the Holcim facility located at 2150 East 130th Street, Chicago, Cook County 60633,

I try to call the couple of number that were in past emails when we were working on the FESOP for this location, but I wasn't able to get a hold of you.

I would like to talk to you about a couple of emissions sources in the permit, and its related emissions. Please email when and the number that you can be reach at.

Thank you.

German Barria

Enviromental Protection Specialis

IEPA, Bureau of Air, Permit Section, FESOP/LOP Unit

Phone: 217-785-0767

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--

Peter Kossis

Plant Manager

Chicago Slag Operations

LafargeHolcim

(312) 623-1658 (C)

peter.kossis@lafargeholcim.com
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Lafarge South Chicago

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Chicago, IL 60633

(773) 646-3186 (O)

"ZERO IS POSSIBLE"

--

Peter Kossis

Plant Manager

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"ZERO IS POSSIBLE"

--

James Opolony
Slag Production & Maintenance Manager

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james.opolony@lafargeholcim.com
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Id Number	Stack Number	Stack Id	Stack Description
031600AAR	0055	118725	Air supply
031600AAR	0056	118726	Air supply
031600AAR	0109	250881	4 Big foot air houses (19.4 million BTU/hr each)
031600AFV	0005	118896	Kiln #2
031600AFV	0027	184788	Crude zinc oxide bin loadout (bag collector 5)
031600AFV	0030	184791	Feed handling system
031600DPK	0001	120674	Silo loading
031600FGT	0003	195877	Cement silo loading
031600FGT	0006	195880	Mixer and/or truck loading
031600FHQ	0001	121260	Portland cement terminal: Cement silo loading
031600FHQ	0002	121261	Portland cement terminal: Truck loading/unloading
031600FHQ	0003	190764	Portland cement terminal: Barge unloader
031600FHQ	0004	215253	Slag dryer
031600GHA	0001	219682	Turbine CT-01
031600GHA	0003	222391	Turbine CT-02
031600GKE	0009	222736	Backup generator EDG A
031600GKE	0010	222737	Backup generator EDG B
031600GKE	0011	222738	Backup generator EDG C
031600GWV	0007	234365	Boiler

Lead Emissions (lb/hr)	Diameter (ft)	Height (ft)	Flow Rate (acfm)	Temperature (F)	UTM Zone
0	2.30	55	8000	225	16
0	1.00	45	2000	245	16
0.00000335	1.76	37	3000	442	16
0.047000178	6.40	52	4115	181	16
0	9.00	98	123228	81	16
0	1.50	75	4101	82	16
0.000368	2.20	32	12424	113	16
0.000069	2.80	36	10266	80	16
0.0002292	2.90	32	10220	80	16
0.000368	5.30	50	3000	70	16
0.002208	7.92	20	3000	70	16
0	2.80	36	10266	80	16
0	5.33	157	74700	183	16
0	20.00	90	1658000	997	16
0	20.00	90	1658000	997	16
0.000277144	3.00	12	16200	895	16
0.000277144	3.00	12	16200	895	16
0.000277144	3.00	12	16200	895	16
0	3.78	74	19740	416	16

UTM Northing	UTM Easting	Latitude	Longitude
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4615216	453823	41.687371	-87.554861
4615216	453823	41.687371	-87.554861
4615216	453823	41.687371	-87.554861
4619060	454722	41.722045	-87.544345
4617532	451809	41.708115	-87.57925
4617532	451809	41.708115	-87.57925
4612185	452489	41.659995	-87.570645
4612185	452489	41.659995	-87.570645
4612185	452489	41.659995	-87.570645
4612141	452468	41.659603	-87.5709
4614792	453654	41.683552	-87.556862
4614792	453697	41.683556	-87.556351
4618584	454708	41.717758	-87.544477
4618571	454708	41.717645	-87.544477
4618559	454708	41.717536	-87.544477
4613685	454218	41.673608	-87.55

Pb Hourly Emissions Inventory

10/24/2019

Strip ID	Facility ID	Point	Mode	Operating	Construction	Stack ID	Stack No.
				Permit	Permit		
1	031600AFV	40	1	96030189		118896	5
2	031600AFV	27	1	96030189		184788	27
3	031600AFV	36	1	96030189		184791	30
4	031600GWV	7	1	10030011		234365	7

Point Description	Stack Description	Stack Distance (Km)
Rotary kiln #2	Kiln #2	0.94
Crude zinc oxide bin	Crude zinc oxide bin loadout (bag collector 5)	0.94
Feed handling system with pelletizer	Feed handling system	0.94
Boiler	Boiler	0.85

Radius = 5 km

Background Flag	Ceased Month	Ceased Year	Modified Month	Modified Year	Rain Cap	Stack Diameter (m)	Stack Height (m)	Stack Parameter Year	Stack Parameter Type
M						1.95	15.85	2019	MAX
M					N	2.74	29.87	2019	MAX
M					N	0.46	22.86	2019	MAX
M					N	1.15	22.56	2019	MAX

Stack Flow Rate (acfm)	Stack Velocity (m/s)	Stack Temperature K	Error Flag	Qualifier Flag	Pollutant	Emission Year	Emission Type	Controlled Emissions (lb/hr)
4115	0.65	355.9			LEAD	2019	ALLW	0.144
123228	9.84	300.4			LEAD	2019	ALLW	0.009
4101	11.79	300.9			LEAD	2019	ALLW	0.0018
19740	8.94	486.5			LEAD	2019	ALLW	0.00019

Centering UTM = 454437 4614509
 Zone 16 Easting (X) Northing (Y)

Controlled Emissions (g/s)	Controlled Emissions (t/y)	Forced Y UTM	Forced X UTM	Lambert North	Lambert East	Duplicate UTM	Method
0.02	0.63072	4615216	453823	3155960.458	3528903	F	19
0	0.03942	4615216	453823	3155960.458	3528903	F	19
0	0.007884	4615216	453823	3155960.458	3528903	F	19
0	0.000832	4613685	454218	3150997.135	3530332	F	19

Datum

NAD83
NAD83
NAD83
NAD83

Id Number	Stack Number	Stack Id
031036AAA	0003	115247
031036AAA	0004	115248
031036AAA	0002	115246
031600AAR	0046	118716
031600AAR	0055	118725
031600AAR	0056	118726
031600AAR	0088	156582
031600AAR	0109	250881
031600AAR	0110	250882
031600AAR	0111	250883
031600AAR	0112	250884
031600AAR	0114	250886
031600AFV	0005	118896
031600AFV	0005	118896
031600AFV	0035	184796
031600ALC	0002	118971
031600AOL	0015	209976
031600BIY	0001	119521
031600BIY	0024	241900
031600BRA	0001	119770
031600DPK	0001	120674
031600DQO	0021	173045
031600FDK	0002	121107
031600FGT	0003	195877
031600FGT	0006	195880
031600FGT	0007	195881
031600FHQ	0001	121260
031600FHQ	0002	121261
031600FHQ	0003	190764
031600FHQ	0004	215253
031600FHQ	0004	215253
031600FLD	0017	188346
031600FLD	0016	188345
031600FWM	0023	233161
031600GFX	0003	193349
031600GHA	0001	219682
031600GHA	0001	219682
031600GHA	0003	222391
031600GHA	0003	222391
031600GHV	0005	189629
031600GHV	0005	189629
031600GKE	0001	219577
031600GKE	0009	222736
031600GKE	0010	222737
031600GKE	0011	222738
031600GKE	0002	219591

031600GKE	0003	219592
031600GKE	0004	219593
031600GKE	0005	219594
031600GKE	0006	219595
031600GKE	0007	219596
031600GKE	0008	219597
031600GKU	0001	209195
031600GWV	0007	234365

Stack Description

Boiler #3

Boiler #2

Boiler stack #1

60 million BTU/hr boiler

Air supply

Air supply

2 Natural gas fired hot water heaters

4 Big foot air houses (19.4 million BTU/hr each)

2 Hot water stations

Paint line water heater

Other natural gas combustion (curing ovens, oxidizers, space heaters)

Emergency generator

Kiln #2

Kiln #2

Engine

Boiler

Natural gas combustion

Boiler #1

Boiler #3

Gas heater

Silo loading

Centrifuge Boilers #1 and #2

2 Steam generators

Cement silo loading

Mixer and/or truck loading

Natural gas combustion

Portland cement terminal: Cement silo loading

Portland cement terminal: Truck loading/unloading

Portland cement terminal: Barge unloader

Slag dryer

Slag dryer

Product collector from shaft dryers (T51-HG1), Cyclone (T51-CN1), and Separator (T61-SR1)

Polymers (Y-Chutes, top of T61-RP2 bin and T61-RP2), and Aux. dryers (T71-HG2 and T71-HG7)

Natural gas combustion

Natural gas combustion

Turbine CT-01

Turbine CT-01

Turbine CT-02

Turbine CT-02

2 Boilers

2 Boilers

Turbine CTG-5

Backup generator EDG A

Backup generator EDG B

Backup generator EDG C

Turbine CTG-6

Turbine CTG-7
Turbine CTG-8
Turbine CTG-9
Turbine CTG-10
Turbine CTG-11
Turbine CTG-12
Combined boilers stack
Boliler

Mn Emissions (lb/hr)	Diameter (ft)	Height (ft)	Flow Rate (acfm)	Temperature (F)	UTM Zone
0.00000152	2.00	25	2752	300	16
0.000000589	2.00	25	2752	300	16
0.000000589	3.50	95	2600	220	16
0	3.30	117	19319	300	16
0	2.30	55	8000	225	16
0	1.00	45	2000	245	16
0.000001026	3.70	85	17345	361	16
0.000002546	1.76	37	3000	442	16
0.000001026	1.84	37	3300	430	16
0.000000266	1.84	37	3300	430	16
0.000039976	1.92	39	4860	258	16
7.4565E-06	2.02	36	12960	692	16
0.033000178	6.40	52	4115	181	16
0.032776655	6.40	52	4115	181	16
0	4.80	56	73901	503	16
0.000009272	2.50	112	9520	470	16
0.000002964	3.40	30	25373	324	16
0.000001748	5.00	90	7970	565	16
0.00000209	2.00	28	4936	395	16
0.00000171	2.50	35	700	350	16
0.000505	2.20	32	12424	113	16
1.38624E-06	1.83	46	2050	450	16
0.000001482	2.60	34	1	400	16
0.0189375	2.80	36	10266	80	16
0.03672	2.90	32	10220	80	16
0.00000342	2.70	50	8859	341	16
0.000101	5.30	50	3000	70	16
0.000606	7.92	20	3000	70	16
0	2.80	36	10266	80	16
0	5.33	157	74700	183	16
0.000011704	5.33	157	74700	183	16
6.65E-09	2.20	90	20000	205	16
1.672E-09	2.20	90	3336	205	16
0.000005852	3.40	58	15060	436	16
0.000006194	2.47	49	9240	331	16
0.106666	20.00	90	1658000	997	16
0	20.00	90	1658000	997	16
0.10025	20.00	90	1658000	997	16
0	20.00	90	1658000	997	16
0.000005434	1.50	35	4700	330	16
0.000004712	1.50	35	4700	330	16
0.0429471	12.14	84	611000	1050	16
0.01563884	3.00	12	16200	895	16
0.01563884	3.00	12	16200	895	16
0.01563884	3.00	12	16200	895	16
0.04244986	12.14	84	611000	1050	16

0.04277066	12.14	84	611000	1050	16
0.04341226	12.14	84	611000	1050	16
0.04197668	12.14	84	611000	1050	16
0.0420248	12.14	84	611000	1050	16
0.04220926	12.14	84	611000	1050	16
0.04207292	12.14	84	611000	1050	16
0.00000494	3.00	30	5150	350	16
0.000127848	3.78	74	19740	416	16

UTM Northing	UTM Easting	Latitude	Longitude
4610011	454809	41.640553	-87.542623
4610011	454809	41.640553	-87.542623
4610011	454809	41.640553	-87.542623
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4612420	453419	41.662167	-87.5595
4615216	453823	41.687371	-87.554861
4615216	453823	41.687371	-87.554861
4615216	453823	41.687371	-87.554861
4613531	454085	41.672212	-87.551584
4617392	450256	41.70676	-87.597904
4613129	451612	41.668445	-87.581256
4613129	451612	41.668445	-87.581256
4618594	454528	41.718435	-87.546145
4619060	454722	41.722045	-87.544345
4613049	450146	41.667637	-87.598862
4617978	453577	41.712233	-87.558033
4617532	451809	41.708115	-87.57925
4617532	451809	41.708115	-87.57925
4617532	451809	41.708115	-87.57925
4612185	452489	41.659995	-87.570645
4612185	452489	41.659995	-87.570645
4612185	452489	41.659995	-87.570645
4612141	452468	41.659603	-87.5709
4612141	452468	41.659603	-87.5709
4617602	454330	41.708895	-87.548945
4617602	454330	41.708895	-87.548945
4613979	453740	41.675455	-87.556245
4617336	450418	41.706267	-87.595953
4614792	453654	41.683552	-87.556862
4614792	453654	41.683552	-87.556862
4614792	453697	41.683556	-87.556351
4614792	453697	41.683556	-87.556351
4612395	452774	41.661905	-87.567245
4612395	452774	41.661905	-87.567245
4618643	454621	41.718284	-87.54553
4618584	454708	41.718046	-87.545265
4618571	454708	41.718046	-87.545265
4618559	454708	41.718046	-87.545265
4618616	454621	41.718047	-87.54553

4618590	454621	41.717811	-87.54553
4618564	454621	41.717574	-87.54553
4618643	454672	41.718292	-87.544914
4618617	454672	41.718053	-87.544914
4618590	454672	41.717812	-87.544914
4618564	454672	41.717574	-87.544914
4617728	451623	41.709869	-87.581501
4613685	454218	41.673608	-87.55

Id Number	NAICS	Name	Address	City	State
031600AAR	336111	Ford Motor Co	12600 S Torrence Ave	Chicago	IL
031600FGT	327320	Ozinga chicago RMC Inc	1818 E 103rd St	Chicago	IL
031600FHQ	212399	Holcim (US) Inc	2150 E 130th St	Chicago	IL
031600GKE	221112	Exelon Generation Co LLC	3141 E 96th St	Chicago	IL

ZIP

60633-1111

60617-5641

60633-2300

60617-5474

Rock Crushing Facility Emission Rate Calculation Worksheet

Rock Crushing Worksheet Version No.: Version 1.0 APDG6490v1

Last Revision Date: February 19, 2019

Spreadsheet Notes: This spreadsheet was developed to estimate emission rate from a rock crushing facility using the Environmental Protection Agency (EPA) emission factor and methodology. The spreadsheet is divided into 5 sections; however, it is not necessary to use the "Emission Factors" tab and "Control Factors" tab. Please fill in the beige boxes with the corresponding facility information.

Table 1 - Modeled Facility Operating Schedule

Site Operation	Monday - Friday		Satu
Ferrous System Operation (includes Shredder)	7 AM to 7 PM	12 hrs/day	7 AM to 5 PM
Barge Loading	7 AM to 3 PM	8 hrs/day	7 AM to 3 PM
Non-Ferrous System Operation	5 AM to 11 PM	18 hrs/day	5 AM to 11 PM
Roadway Fugitive Emissions (Facility Vehicular Traffic)	5 AM to 7 PM	14 hrs/day	5 AM to 5 PM

urday
12 hrs/day
8 hrs/day
18 hrs/day
12 hrs/day

Table 2 - Summary of Predicted

Modeling Source	Maximum Modeled 3-Month Rolling Average ($\mu\text{g}/\text{m}^3$)	Background Concentration [Monitored Design Value] ($\mu\text{g}/\text{m}^3$)
Consultant (RKA)	0.0649	0.0200
Illinois EPA	0.0649	0.0200

Lead (Pb) Air Quality Impacts

Total Concentration [Modeled + Background] ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Pb NAAQS [3-Month Rolling Average] ($\mu\text{g}/\text{m}^3$)
0.0849	454091.0 E, 4614866.0 N	0.15
0.0849	454091.0 E, 4614866.0 N	0.15

Table 3 - Summary of Predicted I

Modeling Source	Averaging Period	Maximum Modeled Concentration [AERMOD] ($\mu\text{g}/\text{m}^3$)	Background Concentration ($\mu\text{g}/\text{m}^3$)
Consultant (RKA)	24-Hour¹	0.379	0.370
	Annual¹	0.039	0.070
Illinois EPA	24-Hour¹	0.379	0.370
	Annual²	0.035	0.070

¹The reported maximum modeled concentration is the highest value for any year of the five-year period.

²The reported maximum modeled concentration is for that receptor with the highest average annual concentration.

Manganese (Mn) Air Quality Impacts

Total Concentration [Modeled + Background] ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Human Health Standard	
		Source	Value ($\mu\text{g}/\text{m}^3$)
0.749	452000.0 E, 4617500.0 N	NR445	4.80
0.109	452000.0 E, 4617500.0 N	NR445 / ATSDR MRL	0.30 / 0.30
0.749	452000.0 E, 4617500.0 N	NR445	4.80
0.105	452000.0 E, 4617500.0 N	NR445 / ATSDR MRL	0.30 / 0.30

5 years modeled.

Range of the individual five yearly concentrations.

Table 4 - Maximum Predicted 24-Hour Average Concentrations

Metal HAP	Consultant (RKA) Modeling Submittal		Health
	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Source
Antimony	0.00253	454085.0 E, 4614965.0 N	NR445
Arsenic	0.00112	454085.0 E, 4614965.0 N	None Identified
Barium	0.09159	454091.0 E, 4614866.0 N	NR445
Beryllium	0.00091	454600.0 E, 4615000.0 N	None Identified
Cadmium	0.00430	454091.0 E, 4614866.0 N	None Identified
Chromium	0.05308	454091.0 E, 4614866.0 N	NR445
Cobalt	0.00570	454091.0 E, 4614866.0 N	NR445
Copper	0.20625	454091.0 E, 4614866.0 N	NR445
Mercury	0.09787	454085.0 E, 4614965.0 N	NR445
Nickel	0.03650	454091.0 E, 4614866.0 N	None Identified
Phosphorus	0.31775	454085.0 E, 4614965.0 N	NR445
Selenium	0.01327	454085.0 E, 4614965.0 N	NR445
Silver	0.00302	454085.0 E, 4614965.0 N	NR445
Thallium	0.00034	454085.0 E, 4614965.0 N	None Identified
Zinc	3.56760	454091.0 E, 4614866.0 N	None Identified

of Selected Metal HAPs, and Related Health Standards

Health Standard	Illinois EPA Modeling Audit Results	
Concentration ($\mu\text{g}/\text{m}^3$)	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)
12.00	0.00253	454085.1 E, 4614964.0 N
-----	0.00112	454085.1 E, 4614964.6 N
12.00	0.09159	454091.0 E, 4614865.5 N
-----	0.00091	454600.0 E, 4615000.0 N
-----	0.00430	454091.0 E, 4614865.5 N
12.00	0.05308	454091.0 E, 4614865.5 N
0.48	0.00570	454091.0 E, 4614865.5 N
24.00	0.20625	454091.0 E, 4615865.5 N
2.40	0.09787	454085.1 E, 4614964.6 N
-----	0.03650	454091.0 E, 4614865.5 N
2.43	0.31775	454085.1 E, 4614964.6 N
4.80	0.01327	454085.1 E, 4614964.6 N
2.40	0.00302	454085.1 E, 4614964.6 N
-----	0.00034	454085.1 E, 4614964.6 N
-----	3.56760	454091.0 E, 4614865.5 N

Table 5 - Maximum Predicted Annual Average Concentrations c

Metal HAP	Applicant/Consultant Modeling Submittal ¹		Health
	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Source
Antimony	0.00016	454251.0 E, 4615156.0 N	ATSDR MRL
Arsenic	0.00008	454596.0 E, 4615044.0 N	IUR ²
Barium	0.00977	454091.0 E, 4614866.0 N	None Identified
Beryllium	0.00011	454596.0 E, 4615044.0 N	NR445 ³
Cadmium	0.00047	454091.0 E, 4614866.0 N	ATSDR MRL ⁴
Chromium	0.00505	454091.0 E, 4614866.0 N	None Identified
Cobalt	0.00059	454091.0 E, 4614866.0 N	ATSDR MRL
Copper	0.02178	454091.0 E, 4614866.0 N	None Identified
Mercury	0.00626	454251.0 E, 4615156.0 N	NR445 ⁵
Nickel	0.00366	454091.0 E, 4614866.0 N	NR445/ATSDR MRL ⁶
Phosphorus	0.02051	454251.0 E, 4615156.0 N	None Identified
Selenium	0.00085	454251.0 E, 4615156.0 N	None Identified
Silver	0.00030	454596.0 E, 4615044.0 N	None Identified
Thallium	0.00003	454596.0 E, 4615044.0 N	None Identified
Zinc	0.38076	454091.0 E, 4614866.0 N	None Identified

¹The reported AERMOD concentration is the maximum individual year concentration of the five

²Using a 0.0043 Unit Risk Factor and 0.00008 $\mu\text{g}/\text{m}^3$ modeled concentration yields a 3.87E-07 i

³Additionally, using a 0.0024 Unit Risk Factor and 0.00011 $\mu\text{g}/\text{m}^3$ modeled concentration yield

⁴Additionally, using a 0.0018 Unit Risk Factor and 0.00047 $\mu\text{g}/\text{m}^3$ modeled concentration yield

⁵A 0.20 $\mu\text{g}/\text{m}^3$ ATSDR MRL is also an applicable standard to evaluate mercury annual average i

⁶Additionally, using a 0.00026 Unit Risk Factor and 0.00366 $\mu\text{g}/\text{m}^3$ modeled concentration yiel

⁷The reported AERMOD concentration is for that receptor with the highest average of the indi

of Selected Metal HAPs, and Related Health Standards

Health Standard	Illinois EPA Modeling Audit Results ⁷	
	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)
0.30	0.00014	454251.0 E, 4615155.9 N
[0.0043 X 0.00008 < 1E-06]	0.00008	454595.8 E, 4615044.4 N
-----	0.00912	454091.0 E, 4614865.5 N
0.02	0.00010	454595.8 E, 4615044.4 N
0.01	0.00044	454091.0 E, 4614865.5 N
-----	0.00474	454091.0 E, 4614865.5 N
0.10	0.00055	454091.0 E, 4614865.5 N
-----	0.02034	454091.0 E, 4614865.5 N
0.30	0.00523	454251.0 E, 4615155.9 N
0.09	0.00343	454091.0 E, 4614865.5 N
-----	0.01710	454251.0 E, 4615155.9 N
-----	0.00071	454251.0 E, 4615155.9 N
-----	0.00029	454595.8 E, 4615044.4 N
-----	0.00003	454595.8 E, 4615044.4 N
-----	0.35341	454091.0 E, 4614865.5 N

5 years modeled.

inhalation impact which is less than 1-in-a-million.

as a 3.60E-07 inhalation impact which is less than 1-in-a-million.

as a 7.20E-07 inhalation impact which is less than 1-in-a-million.

impacts.

as a 9.52E-07 inhalation impact which is less than 1-in-a-million.

annual five yearly concentrations.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

B-010830

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JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

MEMORANDUM

IEPA - DIVISION OF RECORDS MANAGEMENT
HILLI@EPA.ILL

MAR 18 2020

REVIEWER: JMR

DATE: March 2, 2020

TO: German Barria, FESOP/LOP Unit, Permit Section/BOA

FROM: Jeffrey Sprague, Modeling Unit, AQPS/BOA 

SUBJECT: General III, LLC (State ID# 031600SFX), Permit Application #19090021

General III, LLC (GIII) through its consultant RK & Associates, Inc. (RKA), has submitted an air quality analysis in support of a construction permit for a new scrap metal recycling facility to be located at 11600 South Burley in Chicago, Illinois. The Illinois EPA (IEPA) requested the air quality analysis to assure that ambient air impacts of hazardous air pollutant (HAP) metal emissions from the proposed facility and existing nearby facilities were addressed. The contributions of facilities other than the proposed scrap metal recycling facility were evaluated only in conjunction with the lead (Pb) and manganese (Mn) analyses. RKA submitted a modeling protocol on November 18, 2019 (*Air Dispersion Modeling Protocol to Assess Metal Emission Impacts, General III, LLC – Chicago, Illinois*) to which the IEPA provided comment on November 20, 2019 (email from Jeff Sprague to John Pinion). An initial air quality analysis was submitted on January 24, 2020 (*Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – Chicago, Illinois*), with a subsequent submittal on February 12, 2020 (*Supplement No. 1 to the January 24, 2020 Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – 11600 South Burley – Chicago, Illinois.*) The supplemental submittal incorporated and described adjustments to ambient air boundaries (fenceline receptors), operating schedules, source coordinates, stack parameters, building downwash parameter inputs, emission factors for the shredder RTO/scrubber, and emissions allocations in selected modeled “Volume Sources”. Modeling input and output files accompanying both submittals were provided on compact disc. The analyses evaluated the lead (Pb) air quality impacts against the 2008 National Ambient Air Quality Standard (NAAQS), and all other HAPs against the Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels, hazardous air contaminant air quality standards in the Wisconsin Department of Natural Resources air toxics rule (Wisconsin Administrative Code, Chapter NR 445 – Control of Hazardous Pollutants), and/or an inhalation risk greater than 1 in 1,000,000 for carcinogenic substances with a unit risk factor established by USEPA or the California Air Resources Board.

Modeling Methodology and Emissions

The consultant’s modeling procedure conformed with generally accepted air dispersion modeling practices and with recommendations made by the IEPA in written and spoken communications. The most recent version of the American Meteorological Society/Environmental Protection

4302 N. Main Street, Rockford, IL 61103 (815) 987-7760
595 S. State Street, Elgin, IL 60123 (847) 608-3131
2125 S. First Street, Champaign, IL 61820 (217) 278-5800
2009 Mall Street Collinsville, IL 62234 (618) 346-5120

9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
100 W. Randolph Street, Suite 4-500, Chicago, IL 60601

Agency Regulatory Model (AERMOD, version 19191) was used in conjunction with five consecutive years of regionally representative meteorological data (2012-2016: Midway Airport, Chicago, IL surface observations; Davenport, IA upper air soundings) processed using AERMET, version 19191. LEADPOST (version 13262) was used to post-process AERMOD output for determining maximum three-month rolling average lead (Pb) concentrations. The receptor network was of sufficient density and extent to capture the impacts of local contributing sources and to adequately represent air quality around the proposed facility. The modeling conducted by RKA evaluated HAP emissions from the proposed facility operations including the shredder RTO/Scrubber, baghouse exhaust from the “Non-Ferrous System Operation”, scrap material dumping, material handling/transfer operations (conveyors, endloader activity, truck loadout, etc.), screeners, sifters, separators, stockpiles and haul truck movement on roadways. With limited exception, these sources were modeled based upon the operating schedule identified in the following table (Table 1):

Table 1 - Modeled Facility Operating Schedule

Site Operation	Monday - Friday		Saturday	
	7 AM to 7 PM	12 hrs/day	7 AM to 5 PM	12 hrs/day
Ferrous System Operation (includes Shredder)	7 AM to 7 PM	12 hrs/day	7 AM to 5 PM	12 hrs/day
Barge Loading	7 AM to 3 PM	8 hrs/day	7 AM to 3 PM	8 hrs/day
Non-Ferrous System Operation	5 AM to 11 PM	18 hrs/day	5 AM to 11 PM	18 hrs/day
Roadway Fugitive Emissions (Facility Vehicular Traffic)	5 AM to 7 PM	14 hrs/day	5 AM to 5 PM	12 hrs/day

Offsite lead-emitting facilities included fuel combustion emission sources, Portland cement usage and transfer operations, and metals processing and recovery. Offsite manganese-emitting facilities were the same, but included a greater number and much broader range of fuel combustion emission sources. Lead and manganese emission rates for offsite-emitting facilities were provided by the IEPA from its statewide inventory database. The fractional components of particulate matter emissions comprising the various HAP metal emission estimates for the proposed GIII operations are based upon: (1) Measured metal emission factors from the November 2019 compliance testing of the shredder RTO at the General Iron Industries, Inc. (General Iron) facility at 1909 North Clifton Avenue, Chicago, Illinois, and/or (2) analysis of the metal composition of selected samples of “material deposition” at the General Iron facility collected in December, 2019. The former used to estimate metal emissions from the GIII shredder RTO/Scrubber, whereas the latter was primarily used to assign HAP metal estimates for process and fugitive emissions comprising modeled GIII “Volume Sources”.

Modeling Results

The applicant's maximum predicted HAP metal impacts typically occurred at receptors that were fenceline or near-fenceline locations. These included receptors on western, northern, and eastern boundaries of the proposed GIII site. The exception to this pattern were the modeled impacts for manganese, which showed maximum 24-hour and annual average values occurring to the northwest at a distance of more than three kilometers. This difference is attributed to the contributing impacts of offsite facilities included in the manganese modeling analysis.

The lead air quality analysis, which included GII emissions and offsite facilities in proximity to GIII, as well as a monitored background concentration (2016-2018 design value - Washington High School monitor), resulted in a maximum impact of 0.0849 $\mu\text{g}/\text{m}^3$ along the western fenceline. This value is less than 60% of the NAAQS. Table 2 provides a summary of the lead analysis results from both the consultant's submittal and the Agency's independent audit.

Table 2 - Summary of Predicted Lead (Pb) Air Quality Impacts

Modeling Source	Maximum Modeled 3-Month Rolling Average ($\mu\text{g}/\text{m}^3$)	Background Concentration [Monitored Design Value] ($\mu\text{g}/\text{m}^3$)	Total Concentration [Modeled + Background] ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Pb NAAQS [3-Month Rolling Average] ($\mu\text{g}/\text{m}^3$)
Consultant (RKA)	0.0649	0.0200	0.0849	454091.0 E, 4614866.0 N	0.15
Illinois EPA	0.0649	0.0200	0.0849	454091.0 E, 4614866.0 N	0.15

As noted above, the consultant's manganese analysis also incorporated emissions from offsite facilities in proximity to the proposed GIII location. Monitored background concentrations were obtained from the Washington High School monitor and reflect the maximum 24-hour average and annual average concentrations during the past three years. Table 3 provides summary results of the analysis conducted by RKA and the independent audit conducted by IEPA. The maximum 24-hour average value is approximately 16% of the NR445 hazardous air contaminant standard, whereas the maximum annual average value is approximately one-third of the NR445 and ATSDR MRL standards.

Table 3 - Summary of Predicted Manganese (Mn) Air Quality Impacts

Modeling Source	Averaging Period	Maximum Modeled Concentration [AERMOD] ($\mu\text{g}/\text{m}^3$)	Background Concentration ($\mu\text{g}/\text{m}^3$)	Total Concentration [Modeled + Background] ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Human Health Standard	
						Source	Value ($\mu\text{g}/\text{m}^3$)
Consultant (RKA)	24-Hour ¹	0.379	0.370	0.749	452000.0 E, 4617500.0 N	NR445	4.80
	Annual ¹	0.039	0.070	0.109	452000.0 E, 4617500.0 N	NR445 / ATSDR MRL	0.30 / 0.30
Illinois EPA	24-Hour ¹	0.379	0.370	0.749	452000.0 E, 4617500.0 N	NR445	4.80
	Annual ²	0.035	0.070	0.105	452000.0 E, 4617500.0 N	NR445 / ATSDR MRL	0.30 / 0.30

¹The reported maximum modeled concentration is the highest value for any year of the five years modeled.

²The reported maximum modeled concentration is for that receptor with the highest average of the individual five yearly concentrations.

For the large group of remaining HAP metals, modeling was conducted for both 24-hour and annual averaging periods. For some of the metals (arsenic, barium, beryllium, cadmium, chromium, copper, nickel, phosphorus, selenium, and silver) only a 24-hour average health

standard or an annual average health standard was available for comparison against maximum modeled impacts. For other metals (thallium and zinc), neither an NR445 standard nor an ATSDR MRL was available for comparison. For carcinogenic metals, an inhalation risk estimate of 1×10^{-6} based upon established unit risk factors and modeled concentrations serves as an additional standard. In all instances in which a standard was available for comparison, the maximum modeled impacts were lower, and typically, significantly lower than the specified level of the standard. Tables 4 and 5 provide summary results of the maximum predicted impacts and the corresponding health-based standards.

Table 4 - Maximum Predicted 24-Hour Average Concentrations of Selected Metal HAPs, and Related Health Standards

Metal HAP	Consultant (RKA) Modeling Submittal		Health Standard		Illinois EPA Modeling Audit Results	
	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Source	Concentration ($\mu\text{g}/\text{m}^3$)	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)
Antimony	0.00253	454085.0 E, 4614965.0 N	NR445	12.00	0.00253	454085.1 E, 4614964.0 N
Arsenic	0.00112	454085.0 E, 4614965.0 N	None Identified	-----	0.00112	454085.1 E, 4614964.6 N
Barium	0.09159	454091.0 E, 4614866.0 N	NR445	12.00	0.09159	454091.0 E, 4614865.5 N
Beryllium	0.00091	454600.0 E, 4615000.0 N	None Identified	-----	0.00091	454600.0 E, 4615000.0 N
Cadmium	0.00430	454091.0 E, 4614866.0 N	None Identified	-----	0.00430	454091.0 E, 4614865.5 N
Chromium	0.05308	454091.0 E, 4614866.0 N	NR445	12.00	0.05308	454091.0 E, 4614865.5 N
Cobalt	0.00570	454091.0 E, 4614866.0 N	NR445	0.48	0.00570	454091.0 E, 4614865.5 N
Copper	0.20625	454091.0 E, 4614866.0 N	NR445	24.00	0.20625	454091.0 E, 4615865.5 N
Mercury	0.09787	454085.0 E, 4614965.0 N	NR445	2.40	0.09787	454085.1 E, 4614964.6 N
Nickel	0.03650	454091.0 E, 4614866.0 N	None Identified	-----	0.03650	454091.0 E, 4614865.5 N
Phosphorus	0.31775	454085.0 E, 4614965.0 N	NR445	2.43	0.31775	454085.1 E, 4614964.6 N
Selenium	0.01327	454085.0 E, 4614965.0 N	NR445	4.80	0.01327	454085.1 E, 4614964.6 N
Silver	0.00302	454085.0 E, 4614965.0 N	NR445	2.40	0.00302	454085.1 E, 4614964.6 N
Thallium	0.00034	454085.0 E, 4614965.0 N	None Identified	-----	0.00034	454085.1 E, 4614964.6 N
Zinc	3.56760	454091.0 E, 4614866.0 N	None Identified	-----	3.56760	454091.0 E, 4614865.5 N

Table 5 - Maximum Predicted Annual Average Concentrations of Selected Metal HAPs, and Related Health Standards

Metal HAP	Applicant/Consultant Modeling Submittal ¹		Health Standard		Illinois EPA Modeling Audit Results ⁷	
	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)	Source	Concentration ($\mu\text{g}/\text{m}^3$)	Concentration ($\mu\text{g}/\text{m}^3$)	Receptor (UTM Zone 16)
Antimony	0.00016	454251.0 E, 4615156.0 N	ATSDR MRL	0.30	0.00014	454251.0 E, 4615155.9 N
Arsenic	0.00008	454596.0 E, 4615044.0 N	IUR ²	[0.0043 X 0.00008 < 1E-06]	0.00008	454595.8 E, 4615044.4 N
Barium	0.00977	454091.0 E, 4614866.0 N	None Identified	-----	0.00912	454091.0 E, 4614865.5 N
Beryllium	0.00011	454596.0 E, 4615044.0 N	NR445 ³	0.02	0.00010	454595.8 E, 4615044.4 N
Cadmium	0.00047	454091.0 E, 4614866.0 N	ATSDR MRL ⁴	0.01	0.00044	454091.0 E, 4614865.5 N
Chromium	0.00505	454091.0 E, 4614866.0 N	None Identified	-----	0.00474	454091.0 E, 4614865.5 N
Cobalt	0.00059	454091.0 E, 4614866.0 N	ATSDR MRL	0.10	0.00055	454091.0 E, 4614865.5 N
Copper	0.02178	454091.0 E, 4614866.0 N	None Identified	-----	0.02034	454091.0 E, 4614865.5 N
Mercury	0.00626	454251.0 E, 4615156.0 N	NR445 ⁵	0.30	0.00523	454251.0 E, 4615155.9 N
Nickel	0.00366	454091.0 E, 4614866.0 N	NR445/ATSDR MRL ⁶	0.09	0.00343	454091.0 E, 4614865.5 N
Phosphorus	0.02051	454251.0 E, 4615156.0 N	None Identified	-----	0.01710	454251.0 E, 4615155.9 N
Selenium	0.00085	454251.0 E, 4615156.0 N	None Identified	-----	0.00071	454251.0 E, 4615155.9 N
Silver	0.00030	454596.0 E, 4615044.0 N	None Identified	-----	0.00029	454595.8 E, 4615044.4 N
Thallium	0.00003	454596.0 E, 4615044.0 N	None Identified	-----	0.00003	454595.8 E, 4615044.4 N
Zinc	0.38076	454091.0 E, 4614866.0 N	None Identified	-----	0.35341	454091.0 E, 4614865.5 N

¹The reported AERMOD concentration is the maximum individual year concentration of the five years modeled.

²Using a 0.0043 Unit Risk Factor and 0.00008 $\mu\text{g}/\text{m}^3$ modeled concentration yields a 3.87E-07 inhalation impact which is less than 1-in-a-million.

³Additionally, using a 0.0024 Unit Risk Factor and 0.00011 $\mu\text{g}/\text{m}^3$ modeled concentration yields a 3.60E-07 inhalation impact which is less than 1-in-a-million.

⁴Additionally, using a 0.0018 Unit Risk Factor and 0.00047 $\mu\text{g}/\text{m}^3$ modeled concentration yields a 7.20E-07 inhalation impact which is less than 1-in-a-million.

⁵A 0.20 $\mu\text{g}/\text{m}^3$ ATSDR MRL is also an applicable standard to evaluate mercury annual average impacts.

⁶Additionally, using a 0.00026 Unit Risk Factor and 0.00366 $\mu\text{g}/\text{m}^3$ modeled concentration yields a 9.52E-07 inhalation impact which is less than 1-in-a-million.

⁷The reported AERMOD concentration is for that receptor with the highest average of the individual five yearly concentrations.

Remarks and Recommendations

The following dot-point entries provide concluding comments regarding the modeling assessment, with particular emphasis on conditions for acceptability and notable uncertainties in the analysis.

- The applicant's consultant submitted a modeling analysis that was consistent with the directives of Illinois EPA staff, addressing through modeling those metal HAPs previously identified at the General Iron Industries, Inc. facility. The current analysis focused on lead (Pb) and manganese (Mn) emissions, while also evaluating other metal HAPs. A more exhaustive assessment would include incorporating offsite facilities in the modeling analysis for these other metal HAPs, and, if available, monitored background concentrations for a fuller accounting of potential ambient loadings.
- Illinois EPA acceptance of "ambient air boundary" receptor placement, as implemented in the modeling analysis, is contingent upon additional signage, visual control equipment, and a physical barrier (fencing or shipping containers) as described on pages 3 and 4 of Supplement No. 1 to the January 24, 2020 Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – 11600 South Burley – Chicago, Illinois.
- The modeling analysis was not structured to allow evaluation of ambient air concentrations for all possible hours from the five-year meteorological dataset. Rather, those hours of meteorological data that fell outside the operating schedules for General III emission sources in Table 1 of this memorandum were excluded from the analysis. Consequently, permit conditions are necessary that restrict the facility's operation to the days and hours specified in Table 1 (largely reproduced from page 1 of Supplement No. 1 to the January 24, 2020 Air Dispersion Modeling Report for Assessment of Metal Emission Impacts, General III, LLC – 11600 South Burley – Chicago, Illinois.) For certain emission sources, the meteorological hours modeled by the consultant extended beyond the operational hours specified in Table 1. Accordingly, the permit conditions should be adjusted to reflect this expanded assessment.
- The roadway fugitive emissions calculations reflect haul truck travel (semi-trailers) on specified road segments accompanying deliveries of metal scrap and removal of waste material. It is highly uncertain as to how well small truck deliveries by "peddlers" are represented in the number of vehicles and in the choice of parameters for estimating emissions. Additionally, the roadway fugitives do not include emission estimates of personal (employee) vehicle travel or possible product transfer by trucks offsite that may be occurring on these roadways. The unquantified emissions from these mobile sources, though likely insignificant, adds some uncertainty to the modeled HAP metal concentrations.
- The Reserve Management Group (RMG) industrial campus includes four existing facilities that are directly south of the proposed General III, LLC location. These

facilities---Reserve Marine Terminals, Regency Technologies, Napuck Salvage of Waupaca, and South Shore Recycling---were not incorporated directly into the modeling analysis. They may, however, be indirectly represented by the monitored background values used for some of the HAP metals. It is uncertain to what extent the unquantified emissions from these facilities are contributing to ambient loadings of HAP metals.

Based upon the applicant's submittal, and the Illinois EPA's review and audits, the air quality analysis adequately demonstrates that the proposed General III, LLC scrap metal recycling facility will not cause or contribute to violations of the lead (Pb) NAAQS, nor exceed human health-based HAP standards that include ATSDR MRLs and concentration or risk-based limits codified in Chapter NR445 of the Wisconsin Administrative Code.

cc: David Bloomberg, Section Manager, AQPS/BOA
Chris Romaine, CAAPP Construction Unit Manager, Permit Section/BOA
Bob Bernoteit, FESOP/State Permits Unit Manager, Permit Section/BOA
Robb Layman, Assistant Counsel, Division of Legal Counsel

Bureau of Air Permit Section
File Organization Cover Sheet

Source Name:	Holcim (US) Inc
ID No.:	031600FHQ
Application No.:	09100031
Category:	03K Air Permit - Final
Item Date:	6/11/19
Keyword:	
Comment:	
Part:	of

Submitted by: MLM

EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUL 30 2019

REVIEWER: RDM



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217/785-1705

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)

PERMITTEE

Holcim (US), Inc.
 Attn: Peter Kossis - Plant Manager
 2150 E. 130th St.
 Chicago, Illinois 60633

<u>Application No.:</u> 09100031	<u>I.D. No.:</u> 031600FHQ
<u>Applicant's Designation:</u>	<u>Date Received:</u> October 21, 2009
<u>Subject:</u> Ground Slag Processing and Cement Distribution Terminal	
<u>Date Issued:</u> June 11, 2019	<u>Expiration Date:</u> June 11, 2029
<u>Location:</u> 2150 East 130th Street, Chicago, Cook County 60633	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

Granulated Slag Grinding and Drying Operation with Loadout Operation:

Wet Slag Processing:
 Truck Unloading Hopper (P01A) Venting to P02;
 Wet Slag Processing:
 Hopper Belt (P02) Venting to P03;
 Bucket Elevator (P03) Venting to P04;
 Day Bin (P04) Venting to Stack 01;
 Day Bin Weigh Belt (P05) Venting to P08A/P09A;
 Day Bin Transition Hopper (P06) Feeding Dryer Feed Belt (P07A) Venting to P08A/P09A;
 Dryer Feed Belt (P07A) Venting to P08A/P09A;
 40 mmBtu/hour Natural Gas Slag Dryer (P08A) and Dryer Shaft (P09A) controlled by Dust Collector (416DC04) Venting to Stack S02;

Ground Dry Slag Processing and Lime Addition:

Rejected Slag Chute (P09B) Venting to Indoor Fugitive;
 Dryer Cyclone Separator (P10) controlled by Dust Collector (416DC04) Venting to Stack S02;
 Ball Mill Feed Chute (P11) Venting to P12A;
 Ball Mill / Mill Sweep (P12A) controlled by Dust Collector (416DC01) Venting to Stack S03;
 Bucket Elevator (P12D) controlled by Dust Collector (416DC03) Venting to Stack S04;
 HES Separator (P13) controlled by Dust Collector (416DC02) Venting to Stack S05;
 Slag Storage Silo (P14) controlled by Dust Collector (418DC01) Venting to Stack S06;
 Surge Bin (P15A) controlled by Dust Collector (570DC01) Venting to Stack S08 and Pressure Relief Vent Stack S07;

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Loading from Surge Bin (P15A) to Vessel (P16) controlled by Dust Collector (574DC01) Venting to Stack S09;

Loading from Main Distribution Silo (P23) to Barge (P20) controlled by Dust Collector (573DC01) Venting to Stack S011;

Loading from Surge Bin (P15A/P21) to Main Distribution Silo (P23) Controlled by Dust Collector (DC01) Venting to Stack S10;

Loading from Main Distribution Silo (P23) to Surge Bin (P15A/P22) for Loading to Vessel (P16) Controlled by Surge Bin Dust Collector (570DC01) Venting to Stack S08 and Vessel Loading Dust Collector (574DC01) Venting to Stack S09;

Truck Loading/Unloading Scale 1 (P24A) controlled by Dust Collector (DC03) Venting to Stack S12; and Truck Loading/Unloading Scale 2 (P24B) controlled by Dust Collector (DC04) Venting to Stack S13;

30 ton/hour Portable Wet Granulated Slag Delumper (Electric Delumper); and

6.6 ton Lime Storage Tank (Lime Day Bin) with Feeding System Controlled by Dust Collector (416DC02)

Cement Distribution Terminal:

Cement Distribution:

Unload cement from Vessel/Barge (P17/P18) to Main Distribution Silo (P23) controlled by Dust Collector (DC01) Venting to Stack S10;

Truck Loading/Unloading Scale 1 (P24A) controlled by Dust Collector (DC03) Venting to Stack S12; and Truck Loading/Unloading Scale 2 (P24B) controlled by Dust Collector (DC04) Venting to Stack S13;

Load cement from Main Distribution Silo (P23) to Barge (P19) controlled by Dust Collector (573DC01) Venting to Stack S11.

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This Federally Enforceable State Operating Permit (FESOP) is issued:
 - i. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for Particulate Matter less than 10 microns (PM₁₀)). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
 - ii. To limit the potential emissions of VOM from the source to less than 25 tons/year. As a result, the source is excluded from the requirements of 35 Ill. Adm. Code Part 205 (Emission Reduction Market System). The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
 - iii. To establish federally enforceable production and operating limitations, which restrict the potential to emit for Volatile Organic Material (VOM) to less than 25 tons per year so that the source is not subject to the requirements of 35 Ill. Adm. Code Part 218 Subpart TT (Other Emission Units).
- b. Prior to issuance, a draft of this permit has undergone a public notice

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and comment period.

- c. This permit supersedes all operating permit(s) for this location.
- 2a. The Granulated Blast Furnace Slag Grinding and Drying Operation with Loadout Operation, Wet Slag Processing, Ground Dry Slag Processing and Lime Addition, and Cement Distribution Terminal are subject to 35 Ill. Adm. Code Part 212 Subpart B (Visible Emissions). Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.
- b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- c. This source is subject to 35 Ill. Adm. Code Part 212 Subpart K (Fugitive Particulate Matter). Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.
- d. Pursuant to 35 Ill. Adm. Code 212.302(a), 35 Ill. Adm. Code 212.304 through 212.310 and 212.312 shall apply to all mining operations (SIC major groups 10 through 14), manufacturing operations (SIC major groups 20 through 39 except for those operations subject to 35 Ill. Adm. Code Part 212 Subpart S (Grain-Handling and Grain-Drying Operations) that are outside the areas defined in 35 Ill. Adm. Code 212.324(a)(1)), and electric generating operations (SIC group 491), which are located in the areas defined by the boundaries of the following townships, notwithstanding any political subdivisions contained therein, as the township boundaries were defined on October 1, 1979, in the following counties:

Cook: All townships
- e. Pursuant to 35 Ill. Adm. Code 212.313, if particulate collection equipment is operated pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 212.312, emissions from such equipment shall not exceed 68 mg/dscm (0.03 gr/dscf).
- f. Pursuant to 35 Ill. Adm. Code 212.316(b), no person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent.

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- g. The Granulated Blast Furnace Slag Grinding and Drying Operation with Loadout Operation, Wet Slag Processing, Ground Dry Slag Processing and Lime Addition, and Cement Distribution Terminal are subject to 35 Ill. Adm. Code Part 212 Subpart L (Particulate Matter Emissions from Process Emission Units). Pursuant to 35 Ill. Adm. Code 212.321(a), except as further provided in 35 Ill. Adm. Code Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).
- h. Pursuant to 35 Ill. Adm. Code 212.321(b), interpolated and extrapolated values of the data in 35 Ill. Adm. Code 212.321(c) shall be determined by using the equation:

$$E = A(P)^B$$

where:

P = Process weight rate; and
 E = Allowable emission rate; and,

- i. Up to process weight rates of 408 Mg/hr (450 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- ii. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

	Metric	English
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

- i. Pursuant to 35 Ill. Adm. Code 212.321(c), Limits for Process Emission Units for Which Construction or Modification Commenced on or After April 14, 1972:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.20	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.	3.9	10.00	8.70
13.	4.8	15.00	10.80
18.	5.7	20.00	12.50
23.	6.5	25.00	14.00
27.	7.1	30.00	15.60
32.	7.7	35.00	17.00
36.	8.2	40.00	18.20
41.	8.8	45.00	19.20
45.	9.3	50.00	20.50
90.	13.4	100.00	29.50
140.	17.0	150.00	37.00
180.	19.4	200.00	43.00
230.	22.	250.00	48.50
270.	24.	300.00	53.00
320.	26.	350.00	58.00
360.	28.	400.00	62.00
408.	30.1	450.00	66.00
454.	30.4	500.00	67.00

where:

P = Process weight rate in metric or T/hr, and
 E = Allowable emission rate in kg/hr or lbs/hr.

- j. The Granulated Blast Furnace Slag Grinding and Drying Operation with Loadout Operation, Wet Slag Processing, Ground Dry Slag Processing and Lime Addition, and Cement Distribution Terminal are subject to 35 Ill. Adm. Code 212.324 (Process Emission Units in Certain Areas). Pursuant to 35 Ill. Adm. Code 212.324(b), no person shall cause or allow the emission into the atmosphere, of PM₁₀ from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period, except as otherwise provided in 35 Ill. Adm. Code 212.324.
- k. This source is subject to 35 Ill. Adm. Code Part 212 Subpart U (Additional Control Measures). Pursuant to 35 Ill. Adm. Code 212.700(a), 35 Ill. Adm. Code 212 Subpart U (Additional Control Measures) shall apply to those sources in the areas designated in and subject to 35 Ill. Adm. Code 212.324(a)(1) or 212.423(a) and that have actual annual source-wide emissions of PM₁₀ of at least fifteen (15) tons per year.
3. The Slag Dryer (P08A) is subject to 35 Ill. Adm. Code Part 214 Subpart K (Process Emission Sources). Pursuant to 35 Ill. Adm. Code 214.301, except as further provided by 35 Ill. Adm. Code Part 214, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.
4. The Slag Dryer P08A/P09A and Ball Mill/Mill Sweep (P12A) are subject to 35 Ill. Adm. Code Part 218 Subpart G (Use of Organic Material). Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material

into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 218.302, 218.303, or 218.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code Part 218 Subpart G shall only apply to photochemically reactive material.

- 5a. This permit is issued based on the Granulated Blast Furnace Slag Grinding and Drying Operation, Wet Slag Processing, Ground Dry Slag Processing and Lime Addition, and Cement Distribution Terminal at this source not being subject to the New Source Performance Standards (NSPS) for Metallic Mineral Processing Plants, 40 CFR 60 Subpart LL because this source does not produce metallic mineral concentrates from ore.
- b. This permit is issued based on the Granulated Blast Furnace Slag Grinding and Drying Operation with Loadout Operation, Wet Slag Processing, Ground Dry Slag Processing and Lime Addition, and Cement Distribution Terminal at this source not being subject to the NSPS for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subparts OOO because the source does not crush, screen, or convey nonmetallic mineral at this source.
- 6a. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hour (25 mph). Determination of wind speed for the purposes of 35 Ill. Adm. Code 212.314 shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to 35 Ill. Adm. Code 212.314 is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.
- b. Pursuant to 35 Ill. Adm. Code 212.324(d), the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, 35 Ill. Adm. Code 212.324(d) is not a defense finding of a violation of the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c).
7. This permit is issued based on the Ball Mill/Mill Sweep (P12A) at this source not being subject to 35 Ill. Adm. Code Part 218 Subpart TT (Other Emission Units). This is a result of federally enforceable limitations of this permit which restrict the potential to emit for VOM to less than 25 tons per year.
- 8a. Pursuant to 35 Ill. Adm. Code 212.306, all normal traffic pattern access areas surrounding storage piles specified in 35 Ill. Adm. Code 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 Ill. Adm. Code 212.309, 212.310 and 212.312

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- b. Pursuant to 35 Ill. Adm. Code 212.307, all unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods.
- c. Pursuant to 35 Ill. Adm. Code 212.308, crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program.
- d. Pursuant to 35 Ill. Adm. Code 212.309(a), the emission units described in 35 Ill. Adm. Code 212.304 through 212.308 and 35 Ill. Adm. Code 212.316 shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 Ill. Adm. Code 212.310 and 212.312, and prepared by the owner or operator and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.
- e. Pursuant to 35 Ill. Adm. Code 212.310, at a minimum the operating program shall include the following:
 - i. The name and address of the source;
 - ii. The name and address of the owner or operator responsible for execution of the operating program;
 - iii. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source;
 - iv. Location of unloading and transporting operations with pollution control equipment;
 - v. A detailed description of the best management practices utilized to achieve compliance with 35 Ill. Adm. Code Part 212 Subpart K, including an engineering specification of particulate collection equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized;
 - vi. Estimated frequency of application of dust suppressants by location of materials; and
 - vii. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program.
- f. The Fugitive Particulate Operating Program (i.e. operating program), as submitted by the Permittee pursuant to 35 Ill. Adm. Code 212.309 on April 4, 2019 is incorporated herein by reference. The source shall be operated under and shall comply with the provisions of this Fugitive Particulate Operating Program and any amendments to the Fugitive Particulate Operating Program submitted pursuant to Condition 8(d).

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- g. Pursuant to 35 Ill. Adm. Code 212.312, the operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 Ill. Adm. Code Part 212 Subpart K and shall be submitted to the Illinois EPA within thirty (30) days of such amendment. Any future revision to the Fugitive Particulate Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the Illinois EPA. In the event that the Illinois EPA notifies the Permittee of a deficiency with any revision to the Fugitive Particulate Operating Program, the Permittee shall be required to revise and resubmit the Fugitive Particulate Operating Program within thirty (30) days of receipt of notification to address the deficiency.
- 9a. Pursuant to 35 Ill. Adm. Code 212.324(f), for any process emission unit subject to 35 Ill. Adm. Code 212.324(a), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in 35 Ill. Adm. Code 212.324 shall be met at all times. 35 Ill. Adm. Code 212.324(f) shall not affect the applicability of 35 Ill. Adm. Code 201.149. Proper maintenance shall include the following minimum requirements:
- i. Visual inspections of air pollution control equipment;
 - ii. Maintenance of an adequate inventory of spare parts; and
 - iii. Expeditious repairs, unless the emission unit is shutdown.
- b. Pursuant to 35 Ill. Adm. Code 212.701(a), those sources subject to 35 Ill. Adm. Code Part 212 Subpart U shall prepare contingency measure plans reflecting the PM₁₀ emission reductions set forth in 35 Ill. Adm. Code 212.703. These plans shall become federally enforceable permit conditions. Such plans shall be submitted to the Illinois EPA by November 15, 1994. Notwithstanding the foregoing, sources that become subject to the provisions of 35 Ill. Adm. Code Part 212 Subpart U after July 1, 1994, shall submit a contingency measure plan to the Illinois EPA for review and approval within ninety (90) days after the date such source or sources became subject to the provisions of 35 Ill. Adm. Code Part 212 Subpart U or by November 15, 1994, whichever is later. The Illinois EPA shall notify those sources requiring contingency measure plans, based on the Illinois EPA's current information; however, the Illinois EPA's failure to notify any source of its requirement to submit contingency measure plans shall not be a defense to a violation of 35 Ill. Adm. Code Part 212 Subpart U and shall not relieve the source of its obligation to timely submit a contingency measure plan.
- c. Pursuant to 35 Ill. Adm. Code 212.703(a), all sources subject to 35 Ill. Adm. Code Part 212 Subpart U shall submit a contingency measure plan. The contingency measure plan shall contain two levels of control measures:
- i. Level I measures are measures that will reduce total actual annual source-wide fugitive emissions of PM₁₀ subject to control

- under 35 Ill. Adm. Code 212.304, 212.305, 212.306, 212.308, 212.316(a) through (e), 212.424 or 212.464 by at least 15%.
- ii. Level II measures are measures that will reduce total actual annual source-wide fugitive emissions of PM₁₀ subject to control under 35 Ill. Adm. Code 212.304, 212.305, 212.306, 212.308, 212.316(a) through (e), 212.424 or 212.464 by at least 25%.
- d. Pursuant to 35 Ill. Adm. Code 212.703(b), a source may comply with 35 Ill. Adm. Code Part 212 Subpart U through an alternative compliance plan that provides for reductions in emissions equal to the level of reduction of fugitive emissions as required at 35 Ill. Adm. Code 212.703(a) and which has been approved by the Illinois EPA and USEPA as federally enforceable permit conditions. If a source elects to include controls on process emission units, fuel combustion emission units, or other fugitive emissions of PM₁₀ not subject to 35 Ill. Adm. Code 212.304, 212.305, 212.306, 212.308, 212.316(a) through (e), 212.424 or 212.464 at the source in its alternative control plan, the plan must include a reasonable schedule for implementation of such controls, not to exceed two (2) years. This implementation schedule is subject to Illinois EPA review and approval.
- e. Pursuant to 35 Ill. Adm. Code 212.704(b), if there is a violation of the ambient air quality standard for PM₁₀ as determined in accordance with 40 CFR Part 50, Appendix K, the Illinois EPA shall notify the source or sources the Illinois EPA has identified as likely to be causing or contributing to one or more of the exceedances leading to such violation, and such source or sources shall implement Level I or Level II measures, as determined pursuant to 35 Ill. Adm. Code 212.704(e). The source or sources so identified shall implement such measures corresponding to fugitive emissions within ninety (90) days after receipt of a notification and shall implement such measures corresponding to any nonfugitive emissions according to the approved schedule set forth in such source's alternative control plan. Any source identified as causing or contributing to a violation of the ambient air quality standard for PM₁₀ may appeal any finding of culpability by the Illinois EPA to the Illinois Pollution Control Board pursuant to 35 Ill. Adm. Code 106 Subpart J.
- f. Pursuant to 35 Ill. Adm. Code 212.704(e), the Illinois EPA shall require that sources comply with the Level I or Level II measures of their contingency measure plans, pursuant 35 Ill. Adm. Code 212.704(b), as follows:
- i. Level I measures shall be required when the design value of a violation of the 24-hour ambient air quality standard, as computed pursuant to 40 CFR 50, Appendix K, is less than or equal to 170 ug/m³.
- ii. Level II measures shall be required when the design value of a violation of the 24-hour ambient air quality standard, as computed pursuant to 40 CFR 50, Appendix K, exceeds 170 ug/m³.
- 10a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to

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minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.

- b. Each dust collector shall be in operation at all times when each associated emission unit is in operation and emitting air contaminants.
- c. The Permittee shall maintain and operate an alarm on each dust collector to indicate any malfunction of these dust collectors.
- d. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the Dust Collector 416DC04 associated with Dryer Cyclone Separator P10, Slag Dryer (P09A) and Dryer Shaft (P09A), Dust Collector 416DC01 associated with Ball Mill/Mill Sweep (P12A), Dust Collector 416DC03 associated with Bucket Elevator P12D, Dust Collector 416DC02 associated with HES Separator P13 and Lime Day Bin, by Dust Collector 418DC01 associated with Slag Storage Silo P14, Dust Collector 570DC01 associated with Surge Bin P15A, Dust Collector 574DC01 associated with Vessel Loading from Surge Bin to Vessel P16, Dust Collector DC01 associated with Cement Silo Loading from Surge Bin (P21) and Vessel (P17)/Barge (P18) to Main Silo, by Dust Collector 573DC01 associated with Barge Loading from Main Silo to Barge P19 and P20, Dust Collector DC03 associated with Truck Loading/Unloading Scale 1 P24A, and Dust Collector DC04 associated with Truck Loading/Unloading Scale 2 P24B such that Dust Collectors 416DC04, 416DC01, 416DC03, 416DC02, 418DC01, 570DC01, 574DC01, DC01, 573DC01, DC03, and DC04 are kept in proper working condition and not cause a violation of the Illinois Environmental Protection Act or regulations promulgated therein.
- e. The Permittee shall do the following:
 - i. Maintain total enclosure on any conveyors which are outside the slag processing building.
 - ii. Operate and maintain the material at the dump hopper and delumper such that it is sufficiently wet that no visible emissions occur. Operate and maintain the Lime Addition Process in totally enclosed systems so that no visible emissions occur.
 - iii. Maintain plant roads which go to the truck dump hopper, lime storage trailers, and product storage silos.
- f. The Permittee shall sweep, flush, or clean in an equivalent manner, the paved plant roads and parking areas according to the Permittee's approved operating program or more often if requested by the Illinois EPA.
- g. Any operations generating fugitive emissions shall be operated in a manner consistent with those in the current operating program submitted to the Illinois EPA, or in a manner which results in less fugitive emissions.
- h. The Slag Dryer (P08A) shall only be operated with natural gas as the fuel. The use of any other fuel in the Slag Dryer (P08A) may require that the Permittee first obtain a construction permit from the Illinois

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EPA and perform stack testing to verify compliance with all applicable requirements.

- 11a. Emissions from and operation of the Main Distribution Silo (P23) Unloading/Loading operations shall not exceed the following limits:

Emission Unit	Material Throughput		Emission Factor (lb/Ton)		EMISSIONS			
	(T/Mo)	(T/Yr)	PM	PM ₁₀	PM (lb/Mo)	(T/Yr)	PM ₁₀ (lb/Mo)	(T/Yr)
Loading Slag from Surge Bin (P15A/P21) to Main Distribution Silo (P23)	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.54	2.37
Unload cement from Vessel/Barge (P17/P18) to Main Distribution Silo (P23)	120,724	965,790	0.00099	0.00034	119.52	0.48	41.05	0.16
					Totals:	4.78		2.53

These limits are based on the maximum cement throughput and standard controlled emission factors (Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006). Monthly material throughputs and emission limits based on seasonal 8-month period.

- b. Emissions from and operation of the truck loading/unloading operations shall not exceed the following limits:

Emission Unit	Material Throughput		Emission Factor (lb/Ton)		EMISSIONS			
	(T/Mo)	(T/Yr)	PM	PM ₁₀	PM (lb/Mo)	(T/Yr)	PM ₁₀ (lb/Mo)	(T/Yr)
Slag Unloading Hopper P01A	120,724	965,790	0.00116	0.000549	140.04	0.56	66.28	0.26
Slag Unloading to Slag Pile 3	120,724	965,790	0.00116	0.000549	140.04	0.56	66.28	0.26
Slag Transfer From Pile 3 to Hopper	120,724	965,790	0.00116	0.000549	140.04	0.56	66.28	0.26
Slag and Cement Truck Loading Scales 1 & 2 P24A/B* (slag)	120,724	965,790	0.00181	0.000724	218.51	0.87	87.40	0.35
Slag and Cement Truck Loading Scales 1 & 2 P24A/B* (cement)	120,724	965,790	0.00181	0.000724	218.51	0.87	87.40	0.35
					Totals:	3.42		1.48

* 90% Particulate matter control due to dust collector.

These limits are based on the maximum material throughput and an emission factor derived using Equation 1 of Section 13.2.4, AP-42, Fifth Edition, Volume I, November 2006 for the unloading hopper where $K = 0.74PM/0.35PM_{10}$, $U = 16.34$ and $M = 10.0\%$ and an emission factor derived using Equation 11.12-1 of Section 11.12, AP-42, Fifth Edition, Volume I, June 2006 for the truck loading scales where $K = 0.8$, $U = 1.0$, $A = 1.75$, $M = 0.1$, $B = 0.3$, and $C = 0.013$ for PM and where $K = 0.32$, $U = 1.0$, $A = 1.75$,

M= 0.1, B= 0.3, and C= 0.0052 for PM₁₀. Monthly material throughputs and emission limits based on seasonal 8-month period.

- c. Emissions from and operation of the slag processing operations shall not exceed the following limits:

Emission Unit	Material Throughput		Emission Factor (lb/Ton)		EMISSIONS			
	(T/Mo)	(T/Yr)	PM	PM ₁₀	PM		PM ₁₀	
					(lb/Mo)	(T/Yr)	(lb/Mo)	(T/Yr)
Hopper Belt P02	120,724	965,790	0.0000432	0.0000204	5.21	0.02	2.46	0.01
Day Bin P04	120,724	965,790	0.0000432	0.0000204	5.21	0.02	2.46	0.01
Day Bin Weigh Belt P05	120,724	965,790	0.0000432	0.0000204	5.21	0.02	2.46	0.01
Dryer Feed Belt P07A	120,724	965,790	0.0000432	0.0000204	5.21	0.02	2.46	0.01
Rejected Slag Chute P09B	120,724	965,790	0.000114	0.0000539	16.90	0.06	6.51	0.03
Ball Mill/Mill Sweep P12A	120,724	965,790	0.008	0.004	965.79	3.86	482.90	1.93
Bucket Elevator P12D	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.54	2.37
HES Separator P13	120,724	965,790	0.0280	0.0140	3,380.27	13.52	1,690.13	6.76
Slag Storage Silo P14	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.54	2.37
Surge Bin P15A	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.54	2.37
					Totals: 30.42		15.87	

These limits are based on the maximum slag throughput and an emission factor derived using Equation 1 of Section 13.2.4, AP-42, Fifth Edition, Volume I, November 2006 where K= 0.74PM/0.35PM₁₀, U= 1.3, and M=10.0% for the hopper belt, day bin, weigh belt, and dryer feed belt and where K= 0.74PM/0.35PM₁₀, U= 1.3, and M= 5.0% for the rejected slag chute, and standard controlled emission factors (Table 11.6-4, AP-42, Fifth Edition, Volume I, January 1995 for the ball mill/Mill Sweep and HES separator and Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006 for the bucket elevator, slag storage silo and surge bin). Monthly material throughputs and emission limits based on seasonal 8-month period.

- d. Emissions from and operation of the Electric Delumper shall not exceed the following limits:

Emission Unit	Material Throughput		Emission Factor (lb/Ton)		EMISSIONS			
	(T/Mo)	(T/Yr)	PM	PM ₁₀	PM		PM ₁₀	
					(lb/Mo)	(T/Yr)	(lb/Mo)	(T/Yr)
Electric Delumper	1,250	10,000	0.00116	0.00055	5.75	0.023	2.75	0.011

These limits are based on the maximum slag throughput and emission factors derived using Equation 1 of Section 13.2.4, AP-42, Fifth Edition, Volume I, November 2006 for aggregate handling and storage piles (fugitive emission), K= 0.74 for PM & K= 0.35 for PM₁₀, M=10%, and U = 16.34, and 4 drop points. Monthly material throughputs and emission limits based on seasonal 8-month period.

- e. Emissions from and operation of the lime addition process to slag processing operations shall not exceed the following limits:

Emission Unit	Material Throughput		Emission Factor (lb/Ton)		EMISSIONS			
	(T/Mo)	(T/Yr)	PM	PM ₁₀	PM (lb/Mo)	(T/Yr)	PM ₁₀ (lb/Mo)	(T/Yr)
Lime Truck to Pig Trailer Vented to Slag Storage Silo	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
6.6 Ton Lime Day Bin	6,250	50,000	0.019	0.0095	118.75	0.48	62.50	0.24
Lime Day Bin Weigh Belt	6,250	50,000	0.019	0.0095	118.75	0.48	62.50	0.24
Lime Day Bin Chute to Ball Mill	6,250	50,000	0.019	0.0095	118.75	0.48	62.50	0.24
Ball Mill/Mill Sweep P12A	6,250	50,000	0.008	0.004	50	0.20	25	0.10
Bucket Elevator P12D	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
HES Separator P13	6,250	50,000	0.028	0.014	175.00	0.70	87.50	0.35
Slag Storage Silo P14	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
Surge Bin P15A	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
Loading from Surge Bin (P15A & P21A) to Main Distribution Silo (P23)	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
Truck Loading Scales 1 & 2 (P24A & B)*	6,250	50,000	0.00181	0.000724	12.50	0.05	5.00	0.02
Loading from Main Distribution Silo (P23) to Surge Bin (P15A & P22) for Loading to Vessel (P16)	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
Loading from Main Distribution Silo (P23) to Barge (P20)	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
Loading from Surge Bin (P15A) to Vessel (P16)	6,250	50,000	0.0089	0.0049	55.00	0.22	30.00	0.12
					Totals:	4.15		2.15

* 90% Particulate matter control due to dust collector.

These limits are based on the maximum lime throughput and standard controlled emission factors (Table 11.6-4, AP-42, Fifth Edition, Volume I, January 1995 for the lime day bin, lime day bin weigh belt, lime day bin chute, ball mill/Mill Sweep and HES Separator and Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006 controlled emission factors for lime truck to pig trailer & slag silo, bucket elevator, storage silo, surge bin, and loading operations). Monthly material throughputs and emission limits based on seasonal 8-month period.

- f. Emissions from and operation of the Slag Dryer (P08A/P09A) shall not exceed the following limits: Monthly material throughputs and emission limits based on seasonal 8-month period.
- i. Dry Slag output: 120,724 tons/month and 965,790 tons/year;
 - ii. Slag Dryer (P08A/P09A) Process emissions:

<u>Pollutant</u>	<u>Emission Factor (lbs/Ton Slag)</u>	<u>E M I S S I O N S (Tons/Month)</u>	<u>(Tons/Year)</u>
PM	0.033	1.99	15.94
PM ₁₀	0.023	1.39	11.11

These limits are based on the maximum slag processing rates, controlled standard emission factors (Section 11:1-3, AP-42, Fifth Edition, Volume I, Update 2004, April 2004) and continuous operation.

iii. Natural gas usage: 47.09 mmft³/month and 376.7 mmft³/year.

iv. Emissions resulting from the combustion of natural gas:

<u>Pollutant</u>	<u>Emission Factor (lbs/mmft³)</u>	<u>E M I S S I O N S (Tons/Month)</u>	<u>(Tons/Year)</u>
CO	84.0	1.98	15.82
NO _x	50.0	1.18	9.42
PM*	0.76	0.02	0.14
SO ₂	0.6	0.01	0.11
VOM:	5.5	0.13	1.04

* 90% Particulate matter control due to dust collector.

These limits are based on the maximum firing rates, standard emission factors (Table 1.4-1 and Table 1.4-2, AP-42, Fifth Edition, Volume I, Supplement D, July 1998), Low NOx Burner, Average Natural Gas Heat Content of 930.18 BTU/CF3, and 8,760 hours/year of operation. Monthly material throughputs and emission limits based on seasonal 8-month period.

v. Emissions from and operation of the dryer cyclone separator (P10):

<u>Emission Unit</u>	<u>Material Throughput</u>		<u>Emission Factor (lb/Ton)</u>		<u>EMISSIONS</u>			
	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>PM</u>	<u>PM₁₀</u>	<u>PM (lb/Mo)</u>	<u>(T/Yr)</u>	<u>PM₁₀ (lb/Mo)</u>	<u>(T/Yr)</u>
Dryer Cyclone Separator P10	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.55	2.37

These limits are based on the maximum slag throughput and controlled standard emission factors (Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006). Monthly material throughputs and emission limits based on seasonal 8-month period.

g. Emissions from and operation of the barge loading shall not exceed the following limits:

<u>Material Throughput</u>	<u>Emission Factor (lb/Ton)</u>	<u>EMISSIONS</u>
		<u>PM</u> <u>PM₁₀</u>

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<u>Emission Unit</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>PM</u>	<u>PM₁₀</u>	<u>(lb/Mo)</u>	<u>(T/Yr)</u>	<u>(lb/Mo)</u>	<u>(T/Yr)</u>
Loading Slag from Main Distribution Silo (P23) to Barge (P20)	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.55	2.37
Load Cement from Main Distribution Silo (P23) to Barge P19	120,724	965,790	0.00099	0.00034	119.52	<u>0.48</u>	41.05	<u>0.16</u>
					Totals:	4.78		2.53

These limits are based on the maximum material throughput and controlled standard emission factors (Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006). Monthly material throughputs and emission limits based on seasonal 8-month period.

- h. Emissions from and operation of the vessel loading shall not exceed the following limits:

<u>Emission Unit</u>	<u>Material Throughput</u>		<u>Emission Factor (lb/Ton)</u>		<u>EMISSIONS</u>			
	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>PM</u>	<u>PM₁₀</u>	<u>PM (lb/Mo)</u>	<u>(T/Yr)</u>	<u>PM₁₀ (lb/Mo)</u>	<u>(T/Yr)</u>
Slag Loading from Surge Bin (P15A) to Vessel (P16)	120,724	965,790	0.0089	0.0049	1,074.44	4.30	591.55	2.37
Slag Loading from Main Distribution Silo (P23) to Surge Bin (P15A/P22) for Loading to Vessel (P16)	120,724	965,790	0.0089	0.0049	1,074.44	<u>4.30</u>	591.55	<u>2.37</u>
						8.60		4.74

These limits are based on the maximum slag throughput and controlled standard emission factors (Table 11.12-2, AP-42, Fifth Edition, Volume I, June 2006). Monthly material throughputs and emission limits based on seasonal 8-month period.

- i. Emissions of VOM and usage of grinding aid in the Ball Mill/Mill Sweep (P12A) shall not exceed the following limits:

<u>Material Usage</u>		<u>VOM Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
27.46	219.65	0.58	4.61

These limits are based on the maximum material usage and a VOM content for the grinding aid and VOM emissions controlled by 90% retainment in the slag (2006 Portland Cement Association Study "Life Cycle Inventory of Portland Cement Manufacture) PCA R&D Serial No. 2095b. Monthly material throughputs and emission limits based on seasonal 8-month period.

- j. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

12a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air

pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.
- b. Testing required by Condition 13 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
13. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.
 - 14a. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
- b. i. Pursuant to 35 Ill. Adm. Code 212.316(g)(1), the owner or operator of any fugitive particulate matter emission unit subject to 35 Ill. Adm. Code 212.316 shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 Ill. Adm. Code 212.316 and

shall submit to the Illinois EPA an annual report containing a summary of such information.

- ii. Pursuant to 35 Ill. Adm. Code 212.316(g)(2), the records required under 35 Ill. Adm. Code 212.316(g) shall include at least the following:
 - A. The name and address of the source;
 - B. The name and address of the owner and/or operator of the source;
 - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways;
 - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
 - E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent, and, if diluted, percent of concentration, used each day; and
 - F. A log recording incidents when control measures were not used and a statement of explanation.
- iii. Pursuant to 35 Ill. Adm. Code 212.316(g)(3), copies of all records required by 35 Ill. Adm. Code 212.316 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records.
- iv. Pursuant to 35 Ill. Adm. Code 212.316(g)(4), the records required under 35 Ill. Adm. Code 212.316 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
- c. i. Pursuant to 35 Ill. Adm. Code 212.324(g)(1), written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with 35 Ill. Adm. Code 212.324(f).
- ii. Pursuant to 35 Ill. Adm. Code 212.324(g)(2), the owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emissions limitation.

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These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made.

- iii. Pursuant to 35 Ill. Adm. Code 212.324(g)(3), a written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated.
 - iv. Pursuant to 35 Ill. Adm. Code 212.324(g)(4), copies of all records required by 35 Ill. Adm. Code 212.324 shall be submitted to the Agency within ten (10) working days after a written request by the Agency.
 - v. Pursuant to 35 Ill. Adm. Code 212.324(g)(5), the records required under 35 Ill. Adm. Code 212.324 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
- 15a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
- i. The Permittee shall keep a copy of the Fugitive Particulate Operating Program, any amendments or revisions to the Fugitive Particulate Operating Program, and the Permittee shall also keep a record of activities completed according to the Fugitive Particulate Operating Program.
 - ii. Records addressing use of good operating practices for the Dust Collector 416DC04 associated with Dryer Cyclone Separator P10, Slag Dryer (P09A) and Dryer Shaft (P09A), Dust Collector 416DC01 associated with Ball Mill/Mill Sweep (P12A), Dust Collector 416DC03 associated with Bucket Elevator P12D, Dust Collector 416DC02 associated with HES Separator P13 and Lime Day Bin, by Dust Collector 418DC01 associated with Slag Storage Silo P14, Dust Collector 570DC01 associated with Surge Bin P15A, Dust Collector 574DC01 associated with Vessel Loading from Surge Bin to Vessel P16, Dust Collector DC01 associated with Cement Silo Loading from Surge Bin (P21) and Vessel (P17)/Barge (P18) to Main Silo, by Dust Collector 573DC01 associated with Barge Loading from Main Silo to Barge P19 and P20, Dust Collector DC03 associated with Truck Loading/Unloading Scale 1 P24A, and Dust Collector DC04 associated with Truck Loading/Unloading Scale 2 P24B:
 - A. Operating logs for the dust collectors, including operating data (pressure drop or stack condition), daily upon startup;
 - B. Records for periodic inspection of the dust collectors with date, individual performing the inspection, and nature of inspection; and
 - C. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date

identified, date repaired, and nature of repair.

- iii. Slag Throughput (tons/month and tons/year);
 - iv. Cement Throughput (tons/month and tons/year);
 - v. Lime Mixture Throughput (tons/month and tons/year);
 - vi. Baghouse Leak Detection Monitor data (if installed);
 - vii. Natural gas usage (mmft³/month and mmft³/year);
 - viii. Grinding aid usage for the Ball Mill/Mill Sweep (P12A) (tons/month and tons/year);
 - ix. VOM content of the grinding aid (% by weight); and
 - x. Monthly and annual emissions of CO, NO_x, PM, PM₁₀, SO₂, and VOM from the source, with supporting calculations (tons/month and tons/year).
- b. All records and logs required by Condition 15(a) of this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
- 16a. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
- b. Pursuant to 35 Ill. Adm. Code 212.316(g)(5), a quarterly report shall be submitted to the Illinois EPA stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of 35 Ill. Adm. Code 212.316. This report shall be submitted to the Illinois EPA thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
- c. Pursuant to 35 Ill. Adm. Code 212.324(g)(6), upon written request by the Illinois EPA, a report shall be submitted to the Illinois EPA for any period specified in the request stating the following: the dates

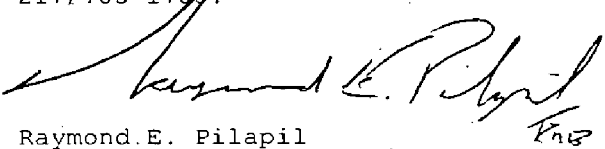
Page 20


during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made.

17. Pursuant to 35 Ill. Adm. Code 218.990, upon request by the Illinois EPA, the owner or operator of an emission unit which is exempt from the requirements of 35 Ill. Adm. Code Part 218 Subparts PP, QQ, RR, TT or 35 Ill. Adm. Code 218.208(b) shall submit records to the Illinois EPA within 30 calendar days from the date of the request that document that the emission unit is exempt from those requirements.
- 18a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit or otherwise, the Permittee shall submit a report to the Illinois EPA's Bureau of Air Compliance Section in Springfield, Illinois within thirty (30) days after the exceedance or deviation. The report shall identify the duration and the emissions impact of the exceedance or deviation, a copy of the relevant records and information to resolve the exceedance or deviation, and a description of the efforts to reduce emissions from, and the duration of exceedance or deviation, and to prevent future occurrences of any such exceedance or deviation.
- b. One (1) copy of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

If you have any questions on this permit, please contact German Barria at 217/785-1707.


Raymond E. Pilapil
Manager, Permit Section
Bureau of Air

REP:GB:jlp 

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the Ground Slag Processing and Cement Distribution Terminal operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels, (e.g., 100 tons/year for PM₁₀) at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

<u>Emission Unit</u>	<u>E M I S S I O N S (Tons/Year)</u>					
	<u>CO</u>	<u>NO_x</u>	<u>PM</u>	<u>PM₁₀</u>	<u>SO₂</u>	<u>VOM</u>
<u>Main Dist. Silo Unloading:</u>						
Loading Slag from Surge Bin (P15A/P21) to Main Distribution Silo (P23)			4.30	2.37		
Unload cement from Vessel/Barge (P17/P18) to Main Distribution Silo (P23)			0.48	0.16		
<u>Truck Loading/Unloading:</u>						
Slag Unloading Hopper P01A			0.56	0.26		
Slag Unloading to Slag Pile 3			0.56	0.26		
Slag Transfer from Pile 3 to Hopper			0.56	0.26		
Slag and Cement Truck Loading Scales 1 & 2 P24A/B (slag)			0.87	0.35		
Slag and Cement Truck Loading Scales 1 & 2 P24A/B (cement)			0.87	0.35		
<u>Slag Processing:</u>						
Hopper Belt P02			0.02	0.01		
Day Bin P04			0.02	0.01		
Day Bin Weigh Belt P05			0.02	0.01		
Dryer Feed Belt P07A			0.02	0.01		
Reject Slag Chute P09B			0.06	0.03		
Ball Mill/Mill Sweep (P12A)			3.86	1.93		4.61
Bucket Elevator P12D			4.30	2.37		
HES Separator P13			13.52	6.76		
Slag Storage Silo P14			4.30	2.37		
Surge Bin P15A			4.30	2.37		
Portable Delumper			0.02	0.01		
<u>Lime Addition Process:</u>						
Lime Truck to Pig Trailer Vented to Slag Storage Silo			0.22	0.12		
6.6 Ton Lime Day Bin			0.48	0.24		
Lime Day Bin Weigh Belt			0.48	0.24		
Lime Day Bin Chute to Ball Mill			0.48	0.24		
Ball Mill/Mill Sweep P12A			0.20	0.10		
Bucket Elevator P12D			0.22	0.12		

E M I S S I O N S (Tons/Year)

<u>Emission Unit</u>	<u>CO</u>	<u>NO_x</u>	<u>PM</u>	<u>PM₁₀</u>	<u>SO₂</u>	<u>VOM</u>
HES Separator P13			0.70	0.35		
Slag Storage Silo P14			0.22	0.12		
Surge Bin P15A			0.22	0.12		
Loading from Surge Bin (P15A & P21A) to Main Distribution Silo (P23)			0.22	0.12		
Truck Loading Scales 1 & 2 (P24A & B)			0.05	0.02		
Loading from Main Distribution Silo (P23) to Surge Bin (P15A & P22) for Loading to Vessel (P16)			0.22	0.12		
Loading from Main Distribution Silo (P23) to Barge (P20)			0.22	0.12		
Loading from Surge Bin (P15A) to Vessel (P16)			0.22	0.12		
<u>Slag Drying:</u>						
Slag Dryer (P08A)	15.82	9.42	1.43	1.43	0.11	1.04
Slag Dryer (P08A/P09A) Process			15.94	11.11		
Dryer Cyclone Separator P10			4.30	2.37		
<u>Barge Loading:</u>						
Loading Slag from Main Distribution Silo (P23) to Barge (P20)			4.30	2.37		
Loading Cement from Main Distribution Silo (P23) to Barge P19			0.48	0.16		
<u>Vessel Loading:</u>						
Slag Loading from Surge Bin (P15A) to Vessel (P16)			4.30	2.37		
Slag Loading from Main Distribution Silo (P23) to Surge Bin (P15A/P22) for Loading to Vessel (P16)			4.30	2.37		
Totals	15.82	9.42	77.84	44.22	0.11	5.65



STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 P. O. BOX 19506
 SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS
 FOR
 OPERATING PERMITS

May, 1993

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. The issuance of this permit does not release the Permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
2. The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.166.
3.
 - a. The Permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Illinois EPA and unless a new permit or revision of the existing permit(s) is issued for such modification.
 - b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.
4. The Permittee shall allow any duly authorized agent of the Illinois EPA, upon the presentation of credentials, at reasonable times:
 - a. To enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit;
 - b. To have access to and to copy any records required to be kept under the terms and conditions of this permit;
 - c. To inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit;
 - d. To obtain and remove samples of any discharge or emission of pollutants; and
 - e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.
5. The issuance of this permit:
 - a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located;

- b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities;
 - c. Does not take into consideration or attest to the structural stability of any unit or part of the project; and
 - d. In no manner implies or suggests that the Illinois EPA (or its officers, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. The facilities covered by this permit shall be operated in such a manner that the disposal of air contaminants collected by the equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.
 7. The Permittee shall maintain all equipment covered under this permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.
 8. The Permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. These records shall be made available to any agent of the Environmental Protection Agency at any time during normal working hours and/or operating hours. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.
 9. No person shall cause or allow continued operation during malfunction, breakdown or startup of any emission source or related air pollution control equipment if such operation would cause a violation of an applicable emission standard or permit limitation. Should a malfunction, breakdown or startup occur, which results in emissions in excess of any applicable standard or permit limitation, the Permittee shall:
 - a. Immediately report the incident to the Illinois EPA's Regional Field Operations Section Office by telephone, telegraph or other method as constitutes the fastest available alternative, and shall comply with all reasonable directives of the Illinois EPA with respect to the incident;
 - b. Maintain the following records for a period of no less than two (2) years:
 - i. Date and duration of malfunction, breakdown, or startup,
 - ii. Full and detailed explanation of the cause,
 - iii. Contaminants emitted and an estimate of quantity of emissions,
 - iv. Measures taken to minimize the amount of emissions during the malfunction, breakdown or startup, and
 - v. Measures taken to reduce future occurrences and frequency of incidents.
 10. If the permit application contains a compliance program and project completion schedule, the Permittee shall submit a project completion status report within thirty (30) days of any date specified in the compliance program and project completion schedule or at six month intervals, whichever is more frequent.
 11. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 and 35 Ill. Adm. Code Part 254.

Bureau of Air Permit Section

File Organization Cover Sheet

Source Name:	Lafarge Midwest Inc.		
ID No.:	031 600 FHQ		
Application No.:	06 09 0040		
Category:	Choose an item.	03M	
Item Date:	Choose an item.	6/1/2007	
Keyword:	Choose an item.	*	
Comment:	*		
Part:	Choose an item.	of	Choose an item. *

* If applicable



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506 - (217) 782-2113

ROD R. BLAGOJEVICH, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

LaFarge North America
Attn: Gil Peterson
1435 Ford Avenue
Post Office Box 396
Alpena, Michigan 49707

EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUN 30 2015

REVIEWER JRM

Application No.: 06090040I.D. No.: 031600FHQApplicant's Designation: SDUOADate Received: September 15, 2006Subject: Slag Dryer Used OilDate Issued: June 1, 2007Location: 2150 East 130th Street, Chicago, 60633

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of modification of the existing slag dryer controlled by baghouse for the firing of off-specification used oil, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. This permit is issued, based upon the modification of the slag dryer not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically the Illinois EPA rules for Major Stationary Sources Construction and Modification, 35 Ill. Adm. Code Part 203. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the emissions of particulate matter less than 10 microns (PM_{10}) from the above-listed equipment below the levels that would trigger the applicability of these rules.
- 2a. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 Ill. Adm. Code 212.122, pursuant to 35 Ill. Adm. Code 212.123(a), except as allowed by 35 Ill. Adm. Code 212.123(b) and 212.124.
- b. Pursuant to 35 Ill. Adm. Code 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).
- c. Pursuant to 35 Ill. Adm. Code 212.324(b), except as otherwise provided in 35 Ill. Adm. Code 212.324, no person shall cause or allow the emission into the atmosphere, of PM_{10} , from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period.

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- d. Pursuant to 35 Ill. Adm. Code 212.324(d), the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, this Condition is not a defense finding of a violation of the mass emission limits contained in 35 Ill. Adm. Code 212.324(b).
- 3a. Pursuant to 35 Ill. Adm. Code 214.122(b), no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion source with actual heat input smaller than, or equal to, 73.2 MW (250 mmBtu/hour), burning liquid fuel exclusively.
 - i. To exceed 1.55 kg of sulfur dioxide per MW-hour of actual heat input when residual fuel oil is burned (1.0 lbs/mmBtu); and
 - ii. To exceed 0.46 kg of sulfur dioxide per MW-hour of actual heat input when distillate fuel oil is burned (0.3 lbs/mmBtu).
- b. Pursuant to 35 Ill. Adm. Code 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2000 ppm.
- c. Pursuant to 35 Ill. Adm. Code 214.304, the emissions from the burning of fuel at process emission units located in the Chicago or St. Louis (Illinois) major metropolitan areas shall comply with applicable 35 Ill. Adm. Code Part 214 Subparts B through F.
- 4a. The baghouse shall be in operation at all times when the associated slag dryer is in operation and emitting air contaminants.
- b. Pursuant to 35 Ill. Adm. Code 212.324(f), for any process emission unit subject to 35 Ill. Adm. Code 212.324(a) (i.e., sources located in McCook, Lake Calumet, or Granite City), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in 35 Ill. Adm. Code 212.324 shall be met at all times. This Condition shall not affect the applicability of 35 Ill. Adm. Code 201.149. Proper maintenance shall include the following minimum requirements:
 - i. Visual inspections of air pollution control equipment;
 - ii. Maintenance of an adequate inventory of spare parts; and
 - iii. Expeditious repairs, unless the emission unit is shutdown.
- c. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.

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d. Natural gas and off-specification used oil shall be the only fuels fired in the slag dryer. The use of any other fuel(s) in the slag dryer requires a construction permit from the Illinois EPA prior to any such modification.

5a. Operation of the slag dryer shall not exceed the following limits:

- i. Dry Slag Output: 150 tons/hour and 744,600 tons/year;
- ii. Off-specification used oil usage: 396 gallons/hour and 1,000,000 gallons per/year; and
- iii. Natural gas usage: 0.043 mmft³/hour (50 mmBtu/hour) and 376.7 mmft³/year.

b. Emissions from the slag dryer shall not exceed the following limits:

i. Slag Dryer Process emissions:

<u>Pollutant</u>	<u>Emission Factor (Lbs/Ton Slag)</u>	<u>E M I S S I O N S (Lbs/Hour)</u>	<u>(Tons/Year)</u>
CO	0.13	19.50	48.40
PM	0.033	4.95	12.29
PM ₁₀	0.0085	1.23	3.05
VOM	0.032	4.80	11.91
HCl	0.00021	0.03	0.08
Lead	0.00001	0.01	0.01

These limits are based on the maximum slag processing rates, standard emission factors (AP-42, Section 11.1, Update 2004, April 2004) and continuous operation.

ii. Emissions resulting from the combustion of off-specification used oil:

<u>Pollutant</u>	<u>Emission Factor (Lbs/1000 Gallon Oil)</u>	<u>E M I S S I O N S (Lbs/Hour)</u>	<u>(Tons/Year)</u>
NO _x	55.0	21.78	27.50
SO ₂	107 S	42.37	53.50

These limits are based on the maximum firing rates, standard emission factors (AP-42, Section 1.11, Supplement B, October 1996), and a minimum baghouse control efficiency of 90% for PM, PM₁₀ and lead. "S" indicates that the weight % of sulfur in the oil should be multiplied by the value given.

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iii. Emissions resulting from the combustion of natural gas:

<u>Pollutant</u>	<u>Emission Factor (Lbs/mmft³)</u>	<u>E M I S S I O N S (Lbs/Hour)</u>	<u>(Tons/Year)</u>
NO _x	132.0	5.68	24.86
SO ₂	0.6	0.03	0.11

These limits are based on the maximum firing rates, standard emission factors (AP-42, Section 1.4, Supplement D, July 1998) and 8,760 hours/year of operation. The NO_x emission factor is based on a guarantee from the burner manufacturer.

- c. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 6a. Pursuant to 35 Ill. Adm. Code 212.107, 212.109, and 212.110, testing for particulate matter emissions shall be performed as follows:
- i. For both fugitive and nonfugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR part 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 212.113, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. This Condition shall not apply to 35 Ill. Adm. Code 212.301, pursuant to 35 Ill. Adm. Code 212.107.
 - ii. Except as otherwise provided in 35 Ill. Adm. Code Part 212, and except for the methods of data reduction when applied to 35 Ill. Adm. Code 212.122 and 212.123, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, and the procedures in 40 CFR 60.675(c) and (d), if applicable, incorporated by reference in 35 Ill. Adm. Code 212.113, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged, pursuant to 35 Ill. Adm. Code 212.109.
 - iii. Measurement of particulate matter emissions from stationary emission units subject to 35 Ill. Adm. Code Part 212 shall be conducted in accordance with 40 CFR part 60, Appendix A, Methods 5, 5A, 5D, or 5E, pursuant to 35 Ill. Adm. Code 212.110(a).

Page 5

- iv. The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR part 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, and 4, pursuant to 35 Ill. Adm. Code 212.110(b).
 - v. Upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA, pursuant to 35 Ill. Adm. Code 212.110(c).
- b. Testing required by Condition 6(a) shall be performed by a qualified independent testing service.
7. The Permittee shall maintain and operate an alarm on the slag dryer baghouse to indicate any malfunction of this baghouse.
- 8a. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
- b. Pursuant to 35 Ill. Adm. Code 212.324(g), sources subject to 35 Ill. Adm. Code 212.324 shall maintain the following records:
- i. Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with 35 Ill. Adm. Code 212.324(f).
 - ii. The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emissions limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made.
 - iii. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated.
 - iv. Copies of all records required by 35 Ill. Adm. Code 212.324(g) shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA.
 - v. The records required under 35 Ill. Adm. Code 212.324(g) shall be kept and maintained for at least three (3) years and shall be

available for inspection and copying by Illinois EPA representatives during working hours.

- c. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
 - i. Records addressing use of good operating practices for the baghouse:
 - A. Operating logs for the affected slag dryer baghouse, including operating data (pressure drop or stack condition), daily upon startup;
 - B. Records for periodic inspection of the baghouse with date, individual performing the inspection, and nature of inspection; and
 - C. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
 - ii. Slag Throughput (tons per month and tons per year);
 - iii. Baghouse Leak Detection Monitor data;
 - iv. Natural gas usage (mmft³/month and mmft³/year);
 - v. Used Oil usage (gallons/month and gallons/year);
 - vi. Sulfur content and lead content of used oil, (% weight) this shall be recorded for each shipment of oil delivered to the source;
 - vii. Monthly and annual emissions of CO, NO_x, PM, PM₁₀, SO₂, VOM, and HCl and lead, with supporting calculations (tons/month and tons/year).
9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
10. If there is an exceedence of or deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedence/deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the

Page 7

relevant records, and a description of the exceedence or deviation, and efforts to reduce emissions and future occurrences.

- 11a. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
 - b. Pursuant to 35 Ill. Adm. Code 212.324(g)(6), upon written request by the Illinois EPA, a report shall be submitted to the Illinois EPA for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made.
12. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

It should be noted that during the analysis of this permit application, it was determined that your facility has the potential to emit more than 100 tons per year of PM₁₀ and SO₂ and will be classified as a major source under the Clean Air Act Permit Program (CAAPP). To avoid the CAAPP permitting requirements, you may want to consider applying for a Federally Enforceable State Operating Permit (FESOP).

A FESOP is an operating permit containing federally enforceable limits in the form of permit conditions which effectively restrict the potential emissions of a source to below major source thresholds, thereby excluding the source from the CAAPP. The necessary application forms are available on the Illinois EPA's website at <http://www.epa.state.il.us/air/caapp/permit-forms.html>.

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If you have any questions on this permit, please contact John Blazis at 217/782-2113.

ECB

Edwin C. Bakowski, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

R-36/1/207
ECB:JPB:psj *JPB 6/1/07*

cc: Region 1

COPY
Original Signed by
Edwin C. Bakowski, P.E.



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P. O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emissions of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
- 6.
- a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.
 - b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
- a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
 - b. upon finding that any standard or special conditions have been violated, or
 - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

CALCULATION SHEET

Facility: LAFARGE MIDWEST, INC.

ID: 031600FHQ

Anal. Eng.: JPB **Date:** 05/25/2007

P.N.: 06090040 & 98010053

Rev. Eng.:

Date:

Date Rec.: 09/15/2006

This application is for construction and revision of the operating permit.

NO -QRPT, LEGAL, Flag, CROPA, NSPS, NESHAP, FUG, TOX

Facility - Grinding of blast furnace slag to produce a cement additive.

The request is to burn used oil in the slag dryer (this process is similar to an asphalt plant dryer that usually burn used oil). Sulfur content will be limited to 1.0 lb/mmbtu.

SO2 - 214.304 - The sulfur dioxide emissions from the dryer shall not exceed 1.0 lbs/mmbtu for residual oil and 0.3 lbs/mmbtu for distillate oil, pursuant to 214.304.

Slag grinding plant - The process consists of a dryer with dust collection system, one ball mill to handle the crushing of the slag controlled by a dust collector, raw material bins and product bins controlled by dust collectors. The existing cement loading operations will be utilized to load the slag-cement product to trucks, barges and ships. All point source emissions are to be captured by the dust collection systems and vented to the baghouses.

NSPS - By the definition in the NSPS, Slag is not a non-metallic mineral. Therefore, this facility is not subject to 40 CFR 60, Subpart OOO. This NSPS is not applicable for this project.

Item of Equipment	Material Usage		Particulate Matter	
	Tph	Tpy	Lb/month	Ton/year
Cement Silo Unloading	1,600	1,400,000	317	1.90
Truck loading/unloading	880	1,400,000	23	0.14
Barge unloading	500	1,400,000	315	1.89
Wet Slag Processing	300	850,000	305	0.77
Dry Slag Processing	150	744,600	3,586	21.11
Barge Loading	1000	1,400,000	24	0.14
Ship /vessel Loading	600	1,400,000	338	2.03
Total:			4,908	27.98

Dryer

- a. Natural gas and used oil may be the only fuels fired in the dryers.
- b. The sulfur content of the used oil shall not exceed 1.0 percent weight.
- c. Operation of the slag dryer shall not exceed the following limits:
 - i. Dry Slag Output: 150 tons/hour and 744,600 tons/year;
 - ii. Off-specification used oil usage: 396 gallons/hour and 1,000,000 gallons per/year; and
 - iii. Natural gas usage: 0.043 mmft³/hour (50 mmBtu/hr) and 376.7 mmft³/year.
- d. Emissions from the slag dryer shall not exceed the following limits:

- i. Slag Dryer Process emissions:

<u>Pollutant</u>	Emission Factor (lbs/Ton Slag)	E M I S S I O N S	
		(lbs/Hour)	(Tons/Year)
CO	0.13	19.50	48.40
PM	0.033	4.95	12.29
PM ₁₀	0.0085	1.23	3.05
VOM	0.032	4.80	11.91
HCl	0.00021	0.03	0.08
Lead	0.00001	0.01	0.01

These limits are based on the maximum slag processing rates, standard emission factors (AP-42, Section 11.1, Update 2004, April 2004) and continuous operation.

- ii. Emissions resulting from the combustion of off-specification used oil:

<u>Pollutant</u>	Emission Factor (lb/1000 Gallon Oil)	E M I S S I O N S	
		(lbs/Hour)	(Tons/Year)
NO _x	55.0	21.78	27.50
SO ₂	107 S	42.37	53.50

These limits are based on the maximum firing rates, standard emission factors (AP-42, Section 1.11, Supplement B, October 1996), and a minimum baghouse control efficiency of 90% for PM, PM₁₀ and lead. "S" indicates that the weight % of sulfur in the oil should be multiplied by the value given.

- iii. Emissions resulting from the combustion of natural gas:

<u>Pollutant</u>	Emission Factor (lb/mmft ³)	E M I S S I O N S	
		<u>(lbs/Hour)</u>	<u>(Tons/Year)</u>
NO _x	132.0	5.68	24.86
SO ₂	0.6	0.03	0.11

These limits are based on the maximum firing rates, standard emission factors (AP-42, Section 1.4, Supplement D, July 1998) and 8,760 hours/year of operation. The NO_x emission factor is based on a guarantee from the burner manufacturer.

212.324(b) - requires PM-10 from any vents or stacks to be less than 0.03 gr./dscf. This will readily be met by the baghouses.

212.316 (b), (c) and (d) – grinding mills, screens, roadways, parking areas, and storage piles shall not exceed 10% opacity.

212.316(f) – 20% opacity from any other emission units.

212, Subpart U – a PM-10 contingency plan is required to be maintained.

NSR - non-attainment area for ozone (VOM) and PM-10.

Synthetic minor for SO₂ since burning used oil (residual oil) Limit SO₂ to 74 tpy from used oil +1.23 tpy from slag.

VOM: The VOM is insignificant from the natural gas combustion. All VOM in the slag would be burned in the blast furnace at the iron foundry. The applicant has used the asphalt plant - drum dryer - emission factor for VOM emissions. This is overstating emissions since there is no asphalt cement used in the process. VOM is limited to 18.99 tpy in the construction permit. Therefore, the source will remain a minor source, not subject to the requirements of Part 203.

PM-10: This slag grinding facility is not one of the 28 categories which fugitive emissions are included for NAA-NSR (not an iron or steel mill, not a Portland cement plant). The PM-10 process emissions are limited to 27.98 tpy and are based on continuous operation at maximum throughput. The existing cement terminal is limited to 6.11 tpy. Therefore, the source will remain a minor source, not subject to the requirements of Part 203.

The PM-10 without control would be over 100 tpy so limits are needed for Title V purposes.

Stack testing

The baghouses are designed to achieve a minimum of 99.95% and not to emit more than 0.01 gr./dscf. The PM-10 standard is 0.03 gr./dscf. No rule requires testing of this modified source. No stack test is necessary unless a specific request is made by the Agency.

Recordkeeping –

- i. Records addressing use of good operating practices for the baghouse:
 - A. Operating logs for the affected slag dryer baghouse, including operating data (pressure drop or stack condition), daily upon startup;
 - B. Records for periodic inspection of the baghouse with date, individual performing the inspection, and nature of inspection; and
 - C. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
- ii. Slag Throughput (ton per month and ton per year);
- iii. Baghouse Leak Detection Monitor data;
- iv. Natural gas usage (mmft³/month and mmft³/year);
- v. Used Oil usage (gallon/month and gallon/year);
- vi. Sulfur content and lead content of used oil, (% weight) this shall be recorded for each shipment of oil delivered to the source;
- vii. Monthly and annual emissions of CO, NO_x, PM, PM₁₀, SO₂, VOM, and HCl and lead, with supporting calculations (ton/month and ton/year).

Recommend: **GRANT** – construction and 1-year operating permit

CAERS - coding to be completed by AQPS.

AGENCY CONFIDENTIAL

PERMIT REVIEW TRAVELER SHEET

N

North America

I.D. # 031600FHQ Company Name LAFARGE MIDWEST INC. Date Rec'd 9-15-06
 Appl. # 06090040 Location CHICAGO Analyst _____
 LEGAL _____ FOS FLAG _____ CROPA _____ NSP/SHAP _____ M&M _____ TOXICS _____
 CAAPP FESOP OPERATING PERMIT APP. CONSTRUCTION PERMIT APP. JOINT CONSTRUCTION/OPERATION APP
 I/O Date/Initial 9-19-06 B9D

Project Emissions Data (Tons/Year)

	S02	NOx	TSP	VOM	CO	OTHER
POT	<u>535</u>	<u>275</u>				
ACT						

Is Project Subject to NSPS/NESHAP: Yes No
 Is Project a Major Source or Major Modification: Yes No
 - If Yes, Complete Major Source Traveler Sheet Is A public Comment Period Required: Yes No
 - If Yes, Complete Public Participation Section Could Project Be Significant Under Crop: Yes No
 - If Yes, Complete CROPA Section

Project Emissions Recorded Date 6-11-07 Init. B9D Emission Credits Recorded Date _____ Init. _____

CROPA/FESOP Notif. Proj. Summary To/From: BOL _____ PWS _____ WPC _____ DLC _____ USEPA _____
 CAAPP Tracking
 Reply From: BOL Significant Not Sign. PWS Significant Not Sign. BOW Significant Not Sign.
 DLC Significant Not Sign. USEPA Significant Not Sign.
 CROPA is Not Applicable/Applicable to this Project
 CPR Project Coordinator: _____ Division: _____

Public Participation DATE DATE

Memo to Community Relations Group _____ Comment Period Completed _____
 Comment Period Initiated _____ Comments/Hearing Records Reviewed _____
 Public Hearing Req./Not Req. _____ Public Participation Completed _____
 If Req. Public Hearing Date _____

Review Action Applicability Determ. Form Completed

Special Reviews Requested of: _____

	Analyst	Unit Mgr.	Special Rev.
<input type="checkbox"/> Completeness/ Incompleteness	_____	_____	_____
<input type="checkbox"/> Confidential Review	_____	_____	_____
<input type="checkbox"/> Request Add'l Info.	_____	_____	_____
<input type="checkbox"/> Permit Not Required	_____	_____	_____
<input type="checkbox"/> Reject	_____	_____	_____
<input type="checkbox"/> Deny	_____	_____	_____
<input checked="" type="checkbox"/> Grant	<u>JPB 05/25/07</u>	<u>DAE 6/1/2007</u>	

Forms: _____

Mail-Out District USEPA Health Dept Ch. Dec Enf Public Participation List
 Cook County Other _____
 Date: 6/1/07 Init. B.C. Date: _____ Init. _____

B9D

**COMPLETENESS REVIEW WORKSHEET
FOR CONSTRUCTION PERMIT FEES**

FACILITY: <u>La Farge Midwest</u> ID NO.: <u>031600FHQ</u> APPLICATION NO.: <u>06090040</u> DATE REC'D: <u>09.15.06</u> ANALYST: <u>JPB</u>	IDENTIFICATION OF REVIEW NUMBER (CIRCLE) <u>1</u> 2 3 4 5 6 7 8 <input checked="" type="checkbox"/> INITIAL COMPLETENESS REVIEW <input type="checkbox"/> SUPPLEMENTAL SUBMITTAL (DATE): ___/___/___ <input type="checkbox"/> OTHER TRIGGER (DESCRIBE): _____
--	--

TYPE OF SOURCE		
<input type="checkbox"/> MAJOR	<input type="checkbox"/> SYNTHETIC MINOR HAVE FESOP? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> NON-MAJOR

COMPLETENESS REVIEW FOR TECHNICAL INFORMATION	
<input type="checkbox"/> INCOMPLETE (DESCRIBE): _____ ACTION TO BE TAKEN <input type="checkbox"/> CALL <input type="checkbox"/> REQUEST ADDITIONAL INFORMATION <input type="checkbox"/> REJECT <input type="checkbox"/> DENY ACTION COMPLETED: ___/___/___ "DAY": ___	<input checked="" type="checkbox"/> APPLICATION COMPLETE

COMPLETENESS REVIEW FOR FEES													
<input type="checkbox"/> INADEQUATE <input type="checkbox"/> UNCERTAIN ACTION TO BE TAKEN <input checked="" type="checkbox"/> CONTINUE WITH TECHNICAL REVIEW <input type="checkbox"/> REQUEST TECHNICAL INFO (SEE ABOVE) <input type="checkbox"/> REQUEST TECHNICAL INFO & UPDATED FEE INFO (SEE ABOVE) <input type="checkbox"/> BILL & CONTINUE WITH TECHNICAL REVIEW <input type="checkbox"/> BILL & NO TECHNICAL REVIEW (EXPLAIN): _____	<input checked="" type="checkbox"/> CORRECT <u>\$2000</u> <input type="checkbox"/> OVERPAID (DESCRIBE): _____ <table style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">BILL AMOUNT</th> </tr> <tr> <th style="text-align: left;">REASON</th> <th style="text-align: left;">AMOUNT</th> </tr> <tr> <td>1. _____</td> <td>\$ _____</td> </tr> <tr> <td>2. _____</td> <td>\$ _____</td> </tr> <tr> <td>3. _____</td> <td>\$ _____</td> </tr> <tr> <td align="right" colspan="2">TOTAL: \$ _____</td> </tr> </table> BILL DATE: ___/___/___ "DAY": ___	BILL AMOUNT		REASON	AMOUNT	1. _____	\$ _____	2. _____	\$ _____	3. _____	\$ _____	TOTAL: \$ _____	
BILL AMOUNT													
REASON	AMOUNT												
1. _____	\$ _____												
2. _____	\$ _____												
3. _____	\$ _____												
TOTAL: \$ _____													

INITIALS			
ANALYST: <u>JPB</u>	DATE: <u>09.25.06</u>	COMMENTS: <u>Modify 2 Burner</u>	
REVIEW: <u>RPS</u>	DATE: <u>09.26.06</u>	COMMENTS: <u>OK</u>	

NOTES: Lifetime with "practically Enforceable Conditions" in the construction permit carried to lifetime. New policy requires FESOP for the existing source.

CIRCLE THE START DATE

INITIAL START DATE _____

R 010878

SQUARE THE STOP DATE

DAYS ALLOWED 90/180 _____

DATE FINAL ACTION MUST BE TAKEN BY: _____
(to be completed after payment received)

1	2	3	4	5	6	7	8	9	10	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
11	12	13	14	15	16	17	18	19	20	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
21	22	23	24	25	26	27	28	29	30	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
31	32	33	34	35	36	37	38	39	40	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
41	42	43	44	45	46	47	48	49	50	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
51	52	53	54	55	56	57	58	59	60	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
61	62	63	64	65	66	67	68	69	70	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
71	72	73	74	75	76	77	78	79	80	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
81	82	83	84	85	86	87	88	89	90	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
91	92	93	94	95	96	97	98	99	100	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
101	102	103	104	105	106	107	108	109	110	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
111	112	113	114	115	116	117	118	119	120	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
121	122	123	124	125	126	127	128	129	130	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
131	132	133	134	135	136	137	138	139	140	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
141	142	143	144	145	146	147	148	149	150	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
151	152	153	154	155	156	157	158	159	160	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
161	162	163	164	165	166	167	168	169	170	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____
171	172	173	174	175	176	177	178	179	180	START _____ STOP _____	DOWN PERIOD _____ DAYS REMAINING _____

AIR PERMIT APPLICATION COMPLETENESS SCREENING CHECKLIST

Within ten (10) working days of being assigned a permit application, take no more than one hour to assess completeness of the permit application and complete the checklist below. If a No answer is indicated in any of the ten answer boxes, or it is not clear what the appropriate response is to a question, discuss the application with your supervisor upon completion of the checklist. A notice of incompleteness or denial may need to be prepared.

Permit Applicant: LA Forge MidwestID#: 031600 PHQ Application#: 06090040Date received: 9/15/06 30th day (N.O.I. deadline): 10/15/06 90th day: 12/14/06Analyst: JPB; Date Checklist Completed: 9/25/06

Completeness Screening Questions	Yes/No/NA
1. Does the application include a cover letter or project narrative that describes what the applicant is requesting a permit for (e.g., construct and operate two new 1,000-gallon mixing tanks to mix what to produce what at what rate)?	Y
2. Based on the project description, does the application include the appropriate application forms (see APC 201 and 209 for general instructions for applications and listing of forms)?	Y
3. Have the applicable signature application forms (APC 200, 205 or 205A) been completed and signed and dated by the applicant?	Y
4. For a construction permit application, has the appropriate construction permit fee been received?	
5. For a construction permit application, does the APC-200 form indicate whether or not the emission unit has already been constructed? If the form indicates that the unit has already been constructed, a permit denial will need to be prepared.	not modified yet
6. If a previous construction permit required testing necessary for the issuance of the permit being applied for: a. Have the required test results been received by the IEPA? b. Has the Compliance Section reviewed the test results or have you requested their review of the test results?	N/A
7. For an existing source requesting modification or renewal, does ICEMAN show a current operating and/or construction permit(s) for the source issued to the same applicant(s) identified on the APC 200, 205 or 205A forms referenced in 3 above?	Y
8. Does the application indicate or can you determine what the potential to emit (PTE) is for the source (including identifying and quantifying HAPs used/emitted), including requested modifications to an existing source?	Y
9. Does the application state or can you determine if the subject project's process, equipment or source is subject to the NSPS in 40 CFR Part 60 Subparts A - HHHH, or NESHAP in 40 CFR Part 61 Subparts A - FF and 40 CFR Part 63 Subparts A - TTTT, or RACT in 35 IAC 218/219 Subparts AA-TT?	Y
10. If the permit was due today, could you write an enforceable permit with the information provided in the application?	Y

R 010880 031600 FHQ

Waiver



FACSIMILE

Date: May 18, 2007

Number of pages (including this one): 1

From: Gil Peterson

Location: Alpena Plant, Fax (989) 354-6794

To: John Blazis

Fax:

Lafarge is willing to extend the permit review time for one more period to June 1, 2007, concerning our application to burn used oil at our South Chicago facility.

RECEIVED

MAY 18 2007

IEPA - DAPC - SPFLD

Region Copy -> JB

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ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223



FACSIMILE

Date: May 8, 2007

Number of pages (including this one): 1

From: Gil Peterson

Location: Alpena Plant, Fax (989) 354-3794

To: John Blazis

Fax:

Lafarge does not object to extending the used oil permit review time to May 18 for our S. Chicago facility.

Gil Peterson

RECEIVED

MAY 08 2007

IEPA - DAPC - SPFLD

Region Copy → JB

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ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223

C.031600FHQ



FACSIMILE

Date: March 13, 2007

Number of pages (including this one): 1

From: Gil Peterson

Location: Alpena Plant, Fax (989) 354-6794

To: John Blazis

Fax:

John

After review of the draft permit we have only a couple of comments.

In the first paragraph on page one, we feel it should state that this permit is for off-specification used oil, not just used oil.

On page two, the Slag Throughput limits and several of the lbs/hr emission limits were taken from the old permit, before the 2004 revision.

Lafarge has no objections to extending the permit review time to March 30.

Thanks for your help with these items.

RECEIVED

MAR 13 2007

Gil Peterson
Lafarge North America

IEPA - DAPC - SPFLD

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ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223



FACSIMILE

Date: February 28, 2007

Number of pages (including this one): 1

From: Gil Peterson

Location: Alpena Plant, Fax (989) 354-6794

To: John Blazis

Fax:

John

Thank you for the copy of the draft permit.
Lafarge has no objections to extending the permit review time to March 9.

031600 F.H.Q.

Gil Peterson
Lafarge North America

FEB 28 2007

ENVA - 00000 - 000000

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ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223

631600FHQ
R 010884



FACSIMILE

Date: January 26, 2007

Number of pages (including this one): 1

From: GII Peterson

Location: Alpena Plant, Fax (989) 354-6794

To: John Blazis

Fax:

John

Lafarge has no objections to extending the permit review time to February 6 for our facility in South Chicago, concerning the request to burn used oil.

**GII Peterson
Lafarge North America**

RECEIVED

JAN 26 2007

INPA - DAPC - SPFLD

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EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUN 30 2015

REVIEWER JRM

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ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223

From: <Gil.Peterson@lafarge-na.com>
To: <john.blazis@illinois.gov>
Date: Friday, December 22, 2006 7:15:17 AM
Subject: Permit

John

Lafarge has no objections to extending the review time for our draft permit until January 4, 2007.
Thanks for your help.

Gil Peterson

Gil Peterson
Environmental Engineer
Lafarge North America - Alpena Plant
Ph 989-358-3346
Cell 989-657-6404
Fax 989-354-2223

This e-mail is confidential. If you are not the intended recipient, please notify the sender and delete this e-mail and any attachments without copying, disclosing or retaining it in any form.

Ce courriel est confidentiel. Si vous n'etes pas le destinataire designe, veuillez en informer l'expediteur et supprimer ce courriel ainsi que tous fichiers joints sans les copier, divulguer ou conserver d'aucune facon.

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RELEASABLE**

JUN 30 2015

REVIEWER JRM

R910886
031600FHQ



FACSIMILE

Date: December 12 2006

Number of pages (including this one): 2

From: Gil Peterson

Location: Alpena Plant, Fax (989) 354-6794

To: John Blazis

Fax:

Letter regarding used oil permit application.

RECEIVED

DEC 12 2006

WPA - DAPC - SPFLD

Region Copy -> JB

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GREAT LAKES REGION - ALPENA PLANT
1435 Ford Avenue, Alpena, MI 49707
OFFICE: (989) 354-4171 FAX: (989) 354-2223



Cement

December 12, 2006

RECEIVED

DEC 12 2006

Mr. John Blazis
Illinois EPA
Division of Air Pollution Control
1021 North Grand Avenue East
P.O. Box 19506
Springfield, IL 62794-9506

EPA - DAPC - SPFLD

RE: Lafarge North America, S. Chicago Facility, 2150 E. 130th St., Chicago, IL., ID NO.: 031600FHQ,
Application No. 06090040.

Dear Mr. Blazis:

In our permit application No. 06090040, Lafarge North America is requesting to use one million gallons of used oil per year at our facility in Chicago, while keeping the natural gas usage at its current rate.

Lafarge has no objections to extending the permit review time until December 21st.

If you have any questions regarding this, please contact me at 989-358-3346.

Sincerely,

Lafarge North America

Gil Peterson
Environmental Engineer

cc: Carley Burton - Lafarge, S. Chicago

EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUN 30 2015

REVIEWER JRM

F.B.D 6/12/89 -> B. Bunstedt

R 010888 *N*



Cement

September 14, 2006

Mr. John Blazis
Illinois EPA
Division of Air Pollution Control
1021 North Grand Avenue East
P.O. Box 19506
Springfield, IL 62794-9506

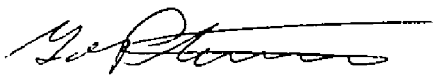
RE: Lafarge North America, S. Chicago Facility, 2150 E. 130th St., Chicago, IL., ID NO.: 031600FHQ

Dear Mr. Blazis:

As you requested, attached is a revised form APC 200 and emission calculation worksheet, concerning our request to use off-specification used oil fuel at our facility in S. Chicago. Also attached is a check for the \$2000 application fee.

If you have any questions regarding these documents, please contact me at 989-358-3346.

Lafarge North America


Gil Peterson
Environmental Engineer

cc: Carley Burton – Lafarge, S. Chicago

EPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUN 30 2015

REVIEWER JRM

RECEIVED

SEP 15 2006

IEPA - DAPC - SPFLD



STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 PERMIT SECTION
 P. O. BOX 19506
 SPRINGFIELD, ILLINOIS 62794-9506

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

APPLICATION FOR PERMIT (A) <input checked="" type="checkbox"/> CONSTRUCT <input type="checkbox"/> OPERATE NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED <u>Slag Drying and Grinding</u> (B)	FOR AGENCY USE ONLY I.D. NO. <u>0316005HQ</u> PERMIT NO. <u>06090040</u> DATE <u>9/15/06</u>
---	---

NOTE: THIS APPLICATION FORM IS ONLY FOR SOURCES NOT REQUIRED TO OBTAIN A FESOP OR CAAPP PERMIT PURSUANT SECTION 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT.

1a. NAME OF OWNER: <u>Lafarge North America</u>		2a. NAME OF OPERATOR: <u>Lafarge North America</u>	
1b. STREET ADDRESS OF OWNER: <u>1435 Ford Avenue, P.O. Box 396</u>		2b. STREET ADDRESS OF OPERATOR: <u>2150 East 130th Street</u>	
1c. CITY OF OWNER: <u>Alpena</u>		2c. CITY OF OPERATOR: <u>Chicago</u>	
1d. STATE OF OWNER: <u>Michigan</u>	1e. ZIP CODE: <u>49707</u>	2d. STATE OF OPERATOR: <u>Illinois</u>	2e. ZIP CODE: <u>60633</u>

3a. NAME OF CORPORATE DIVISION OR PLANT: <u>South Chicago Cement Distribution & Slag Drvina</u>		3b. STREET ADDRESS OF EMISSION SOURCE: <u>2150 East 130th Street</u>		
3c. CITY OF EMISSION SOURCE: <u>Chicago</u>	3d. LOCATED WITHIN CITY LIMITS: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3e. TOWNSHIP: <u>Not applicable</u>	3f. COUNTY: <u>Cook</u>	3g. ZIP CODE: <u>60633</u>

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) <u>Gil Peterson</u>	5. YOUR DESIGNATION FOR THIS APPLICATION: (C) <u>Slag Dryer Used Oil Application</u>
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input type="checkbox"/> EMISSION SOURCE	7. WHO IS THE PERMIT APPLICANT? <input checked="" type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS/HER SIGNATURE HERETO THE UNDERSIGNED FURTHER CERTIFIES THAT HE/SHE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

RECEIVED

AUTHORIZED SIGNATURE(S): (D) BY <u><i>Carley Burton</i></u> <u>09/08/06</u> DATE SIGNATURE Carley Burton DATE TYPED OR PRINTED NAME OF SIGNER <u>Site Manager</u> TITLE OF SIGNER	SIGNATURE <u>SEP 15 2006</u> DATE TYPED OR PRINTED NAME OF SIGNER <u>IEPA - DAPC - SPFLD</u> TITLE OF SIGNER
--	---

(A) THIS FORM IS TO PROVIDE THE ILLINOIS EPA WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY BE USED TO REQUEST A CONSTRUCTION PERMIT, AN OPERATING PERMIT, OR A JOINT CONSTRUCTION AND OPERATING PERMIT.

(B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.

(C) PROVIDE A DESIGNATION IN ITEM 5 ABOVE WHICH YOU WOULD LIKE THE ILLINOIS EPA TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS. (OPTIONAL)

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH 35 ILL. ADM. CODE 201.154 OR 201.159 WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE ILLINOIS EPA A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

BILLING INFORMATION		10. CONTACT PERSON FOR APPLICATION: Gil Peterson	
9a. COMPANY NAME: Lafarge North America		11. CONTACT PERSON'S TELEPHONE NUMBER: (989) 358-3346	
9b. STREET ADDRESS: 1435 Ford Avenue		12. CONTACT PERSON'S FACSIMILE NUMBER: (989) 354-2223	
9c. CITY: Alpena		13. FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): 58-1290226	
9d. STATE: Michigan	9f. BILLING CONTACT PERSON: Gil Peterson	14. PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY: 32	
9e. ZIP CODE: 49707	9g. CONTACT TELEPHONE NO.: (989) 358-3346	15. PRIMARY SIC NUMBER: 3295	16. TAXPAYER IDENTIFICATION NUMBER (TIN): 52-2233816

17. DOES THIS APPLICATION CONTAIN FORM 197-FEE, "CONSTRUCTION PERMIT APPLICATION FEE DETERMINATION?"
 YES NO

18. DOES THE APPLICATION CONTAIN A PLOT PLAN/MAP?
 YES NO
 IF THE PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:
 I. D. NO.: _____ APPLICATION NUMBER _____
 IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE?
 YES NO IF "NO", SPECIFY _____ ACRES

19. DOES THE APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE? YES NO Please see note below.

20. IS THE EMISSION UNIT COVERED BY THIS APPLICATION ALREADY CONSTRUCTED? YES NO
 IF "YES", PROVIDE THE DATE CONSTRUCTION WAS COMPLETED: April 2002

21. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION-INCORPORATION BY REFERENCE" BEEN SUBMITTED? YES NO

APPLICATION FOR OPERATING PERMIT ONLY

22. DOES THE STARTUP OF AN EMISSION UNIT COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSIONS IN EXCESS OF APPLICABLE STANDARDS?
 YES NO
 IF "YES", HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS UNIT?
 YES NO

23. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION UNIT DURING MALFUNCTIONS OR BREAKDOWNS?
 YES NO
 IF "YES", HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS UNIT?
 YES NO

24. IS AN EMISSION UNIT COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE?
 YES NO
 IF "YES", HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE" BEEN COMPLETED FOR THIS UNIT?
 YES NO

25. DOES THE SOURCE COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS)?
 YES NO

26. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS OF EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):

Form APC-200 (Pages 1-2)	
Form APC-240 (Pages 3-5)	
Form APC-260 (Pages 6-11)	
197-Fee form (Pages 12-13)	
Emission calculations (Page 14)	
Facility Plot Plan (Page 15)	
Process flow diagram (Page 16)	

TOTAL NUMBER OF PAGES 16



FEE DETERMINATION FOR CONSTRUCTION PERMIT APPLICATION	FOR AGENCY USE ONLY	
	ID NUMBER:	031600FHQ
	PERMIT #:	06090040
	COMPLETE <input checked="" type="checkbox"/> INCOMPLETE <input type="checkbox"/>	DATE COMPLETE: 9/15/06
CHECK #:	411509	ACCOUNT NAME: LaFarge N. America

THIS FORM IS TO BE USED BY ALL SOURCES TO SUPPLY FEE INFORMATION THAT MUST ACCOMPANY ALL CONSTRUCTION PERMIT APPLICATIONS. THIS APPLICATION MUST INCLUDE PAYMENT IN FULL TO BE DEEMED COMPLETE. MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS ABOVE. DO NOT SEND CASH. REFER TO INSTRUCTIONS (197-INST) FOR ASSISTANCE.

\$2000.00

SOURCE INFORMATION	
1) SOURCE NAME: Lafarge North America	
2) PROJECT NAME: Off-spec used oil use in slag dryer	3) SOURCE ID NO. (IF APPLICABLE): 031600FHQ

FEE DETERMINATION		
4) FILL IN THE FOLLOWING THREE BOXES AS DETERMINED IN SECTIONS 1 THROUGH 4 BELOW:		
\$ 0	+	\$ 2,000
SECTION 1 SUBTOTAL		= \$ 2,000
		SECTION 2, 3 OR 4 SUBTOTAL
		GRAND TOTAL

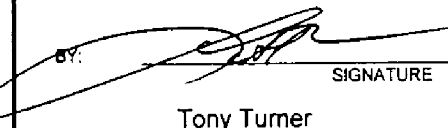
SECTION 1: STATUS OF SOURCE / PURPOSE OF SUBMITTAL	
5) YOUR APPLICATION WILL FALL UNDER ONLY ONE OF THE FOLLOWING SIX CATEGORIES DESCRIBED BELOW. CHECK THE BOX THAT APPLIES, ENTER THE CORRESPONDING FEE IN THE BOX TO THE RIGHT AND COPY THIS FEE INTO THE SECTION 1 SUBTOTAL BOX ABOVE. PROCEED TO APPLICABLE SECTIONS.	
FOR PURPOSES OF THIS FORM:	
<ul style="list-style-type: none"> MAJOR SOURCE IS A SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT. SYNTHETIC MINOR SOURCE IS A SOURCE THAT HAS TAKEN LIMITS ON POTENTIAL TO EMIT IN A PERMIT TO AVOID CAAPP PERMIT REQUIREMENTS (E.G., FESOP). NON-MAJOR SOURCE IS A SOURCE THAT IS NOT A MAJOR OR SYNTHETIC MINOR SOURCE. 	
<input checked="" type="checkbox"/> EXISTING SOURCE WITHOUT STATUS CHANGE OR WITH STATUS CHANGE FROM SYNTHETIC MINOR TO MAJOR SOURCE OR VICE VERSA. ENTER \$0 AND PROCEED TO SECTION 2.	RECEIVED SEP 15 2006 IEPA 0DAPC - SPFLD SECTION 1 SUBTOTAL RECEIVED JUL 03 2005
<input type="checkbox"/> EXISTING NON-MAJOR SOURCE THAT WILL BECOME SYNTHETIC MINOR OR MAJOR SOURCE. ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> EXISTING MAJOR OR SYNTHETIC MINOR SOURCE THAT WILL BECOME NON-MAJOR SOURCE. ENTER \$4,000 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> NEW MAJOR OR SYNTHETIC MINOR SOURCE. ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> NEW NON-MAJOR SOURCE. ENTER \$500 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> AGENCY ERROR. IF THIS IS A TIMELY REQUEST TO CORRECT AN ISSUED PERMIT THAT INVOLVES ONLY AN AGENCY ERROR AND IF THE REQUEST IS RECEIVED WITHIN THE DEADLINE FOR A PERMIT APPEAL TO THE POLLUTION CONTROL BOARD, THEN ENTER \$0. SKIP SECTIONS 2, 3 AND 4. PROCEED DIRECTLY TO SECTION 5.	

SECTION 2: SPECIAL CASE FILING FEE	
6) FILING FEE. IF THE APPLICATION ONLY ADDRESSES ONE OR MORE OF THE FOLLOWING, CHECK THE APPROPRIATE BOXES, ENTER \$500 IN THE SECOND BOX UNDER FEE DETERMINATION ABOVE, SKIP SECTIONS 3 AND 4 AND PROCEED DIRECTLY TO SECTION 5. OTHERWISE, PROCEED TO SECTION 3 OR 4, AS APPROPRIATE.	
<input type="checkbox"/> ADDITION OR REPLACEMENT OF CONTROL DEVICES ON PERMITTED UNITS <input type="checkbox"/> PILOT PROJECTS/TRIAL BURNS BY A PERMITTED UNIT <input type="checkbox"/> APPLICATIONS ONLY INVOLVING INSIGNIFICANT ACTIVITIES UNDER 35 IAC 201.210 (MAJOR SOURCES ONLY) <input type="checkbox"/> LAND REMEDIATION PROJECTS <input type="checkbox"/> REVISIONS RELATED TO METHODOLOGY OR TIMING FOR EMISSION TESTING <input type="checkbox"/> MINOR ADMINISTRATIVE-TYPE CHANGE TO A PERMIT	

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

SECTION 3: FEES FOR CURRENT OR PROJECTED NON-MAJOR SOURCES	
7) IF THIS APPLICATION CONSISTS OF A SINGLE NEW EMISSION UNIT OR NO MORE THAN TWO MODIFIED EMISSION UNITS, ENTER \$500.	7)
8) IF THIS APPLICATION CONSISTS OF MORE THAN ONE NEW EMISSION UNIT OR MORE THAN TWO MODIFIED UNITS, ENTER \$1,000.	8)
9) IF THIS APPLICATION CONSISTS OF A NEW SOURCE OR EMISSION UNIT SUBJECT TO SECTION 39.2 OF THE ACT (I.E., LOCAL SITING REVIEW); A COMMERCIAL INCINERATOR OR A MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR AN EMISSION UNIT DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$15,000.	9)
10) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.	10)
11) SECTION 3 SUBTOTAL (ADD LINES 7 THROUGH 10) TO BE ENTERED ON PAGE 1.	11)

SECTION 4: FEES FOR CURRENT OR PROJECTED MAJOR OR SYNTHETIC MINOR SOURCES			
Application Contains Modified Emission Units Only	12) FOR THE FIRST MODIFIED EMISSION UNIT, ENTER \$2,000.	12) \$2,000	
	13) NUMBER OF ADDITIONAL MODIFIED EMISSION UNITS = _____ X \$1,000.	13) \$0	
	14) LINE 12 PLUS LINE 13, OR \$5,000, WHICHEVER IS LESS.		14) \$2,000
Application Contains New And/Or Modified Emission Units	15) FOR THE FIRST NEW EMISSION UNIT, ENTER \$4,000.	15)	
	16) NUMBER OF ADDITIONAL NEW AND/OR MODIFIED EMISSION UNITS = _____ X \$1,000.	16)	
	17) LINE 15 PLUS LINE 16, OR \$10,000, WHICHEVER IS LESS.		17)
Application Contains Netting Exercise	18) NUMBER OF INDIVIDUAL POLLUTANTS THAT RELY ON A NETTING EXERCISE OR CONTEMPORANEOUS EMISSIONS DECREASE TO AVOID APPLICATION OF PSD OR NONATTAINMENT NSR = _____ X \$3,000.		18)
Additional Supplemental Fees	19) IF THE NEW SOURCE OR EMISSION UNIT IS SUBJECT TO SECTION 39.2 OF THE ACT (I.E., SITING); A COMMERCIAL INCINERATOR OR OTHER MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR ONE OR MORE OTHER EMISSION UNITS DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$25,000.		19)
	20) IF THE SOURCE IS A NEW MAJOR SOURCE SUBJECT TO PSD, ENTER \$12,000.		20)
	21) IF THE PROJECT IS A MAJOR MODIFICATION SUBJECT TO PSD, ENTER \$6,000.		21)
	22) IF THIS IS A NEW MAJOR SOURCE SUBJECT TO NONATTAINMENT (NAA) NSR, ENTER \$20,000.		22)
	23) IF THIS IS A MAJOR MODIFICATION SUBJECT TO NAA NSR, ENTER \$12,000.		23)
	24) IF APPLICATION INVOLVES A DETERMINATION OF CLEAN UNIT STATUS AND THEREFORE IS NOT SUBJECT TO BACT OR LAER, ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.		24)
	25) IF APPLICATION INVOLVES A DETERMINATION OF MACT FOR A POLLUTANT AND THE PROJECT IS NOT SUBJECT TO BACT OR LAER FOR THE RELATED POLLUTANT UNDER PSD OR NSR (E.G., VOM FOR ORGANIC HAP), ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.		25)
26) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.		26)	
27) SECTION 4 SUBTOTAL (ADD LINES 14 AND LINES 17 THROUGH 26) TO BE ENTERED ON PAGE 1.			27) \$2,000

SECTION 5: CERTIFICATION	
NOTE: APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED INCOMPLETE.	
28) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE INFORMATION CONTAINED IN THIS FEE APPLICATION FORM IS TRUE, ACCURATE AND COMPLETE.	
BY:  _____ Tony Turner TYPED OR PRINTED NAME OF SIGNATORY	Site Manager - South Chicago _____ TITLE OF SIGNATORY 6 / 19 / 06 DATE

Lafarge - South Chicago, Used Oil in Slag Grinding Calculations

Table 1. Input Values

Parameter	Value
Raw Grind	
Actual Gas Use - 2004-05 Avg. (10 ⁶ SCF/yr)	125.000
Actual Heat Input (MMBtu/yr)	120,500
Oil Use at 100% NG Replacement (1000 gal/yr)	954.953
Oil Use Target for Permit (1000 gal/yr)	1,000.000
Oil Use at Burner Capacity, 8760 hr/yr (1000 gal/yr)	3,471.116
Raw Grind Heat Capacity (MMBtu/hr)	50
Raw Grind Gas Capacity (10 ⁶ SCF/hr)	0.0519
Natural Gas Heat Content (Btu/scf)	964
Raw Grind Oil Capacity (10 ³ gal/hr)	0.3962
Used Oil	
Heat Content (Btu/lb)	17,000
Density (g/ml)	0.89
Used Oil Heat Content (Btu/gal)	126,184
Oil Sulfur Content (%)	1

Table 2. Actual Emissions from Dryer Natural Gas Use

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Actual Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ⁶ scf)	Emission Factor Reference			
NOx		100	AP-42, Table 1.4-1	0	6.25	5.19
CO		84	AP-42, Table 1.4-1	0	5.25	4.36
Pb		0.0005	AP-42, Table 1.4-2	99	3.13E-07	2.59E-07
PM total/PM ₁₀		7.6	AP-42, Table 1.4-2	99	4.75E-03	3.94E-03
SO ₂		0.6	AP-42, Table 1.4-2	0	3.75E-02	3.11E-02
VOC		5.5	AP-42, Table 1.4-2	0	3.44E-01	2.85E-01

Table 3. Potential Emissions from Dryer Oil Use (with 1 MM gal/yr limit)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	27.50	21.79
CO		5	AP-42, Table 1.3-1	0	2.50	1.98
Pb		1.51E-03	Systech Qual. Analysis	0	7.55E-04	5.98E-04
PM total		11.5	AP-42, Table 1.3-1&2	99	0.06	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5 Stoichiometry (1% S, 7.4 lb/gal)	99	0.05	0.04
SO ₂		148	AP-42, Table 1.3-3	0	74.00	58.64
VOC		1.28	AP-42, Table 1.3-3	0	0.64	0.51

Table 4. Potential Emissions from Dryer Oil Use (assuming 8760hr/yr on oil)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	95.46	21.79
CO		5	AP-42, Table 1.3-1	0	8.68	1.98
Pb		1.51E-03	Systech Qual. Analysis	0	2.62E-03	5.98E-04
PM total		11.5	AP-42, Table 1.3-1&2	99	0.20	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5 Stoichiometry (1% S, 7.4 lb/gal)	99	0.17	0.04
SO ₂		148	AP-42, Table 1.3-3	0	256.86	58.64
VOC		1.28	AP-42, Table 1.3-3	0	2.22	0.51

STATE OF ILLINOIS
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* DATA AND INFORMATION FUEL COMBUSTION EMISSION SOURCE

* THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AND EMISSION SOURCE USING DIRECT HEATING, IS EITHER A PROCESS EMISSION SOURCE OR AN INCINERATOR.

1. NAME OF PLANT OWNER: Lafarge North America	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 2150 East 130th Street	4. CITY OF EMISSION SOURCE: Chicago

GENERAL INFORMATION		
5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: Dryer		
6. MANUFACTURER: Coen Canada, Inc.	7. MODEL NUMBER: QL-3.2 Buner	8. SERIAL NUMBER: 50D-13758-1-000
9. AVERAGE OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK 52 WKS/YR	10. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK 52 WKS/YR	
11. PERCENT OF ANNUAL HEAT INPUT: DEC-FEB 25 % MAR-MAY 25 % JUN-AUG 25 % SEPT-NOV _____ %		

INSTRUCTIONS
1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION. 2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR. 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT. 4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES. 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
AVERAGE - THE VALUE THAT <u>SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE</u> , OR THE GENERAL STATE OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD. AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME. AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.
MAXIMUM - THE <u>GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE</u> , OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD. MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION. MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

GAS FIRING			
*11. ORIGIN OF GAS: <input type="checkbox"/> DISTILLATE FUEL <input type="checkbox"/> OTHER LIQUID FUEL <input type="checkbox"/> SOLID FUEL <input type="checkbox"/> BYPRODUCT			
<input checked="" type="checkbox"/> PIPELINE <input type="checkbox"/> OIL GASIFICATION <input type="checkbox"/> GASIFICATION <input type="checkbox"/> SPECIFY SOURCE			
12. ARE YOU ON AN INTERRUPTABLE GAS SUPPLY: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", SPECIFY ALTERNATE FUEL:			
13. ANNUAL CONSUMPTION:	*14. HEAT CONTENT:	*15. SULFUR CONTENT:	
125 MM SCF	964 BTU/SCF	Negligible % BY WT.	
16. AVERAGE FIRING RATE:	17. MAXIMUM FIRING RATE:		
50MM BTU/HR	50 MM BTU/HR		

* IF THE GAS FIRED IS NATURAL GAS, THESE ITEMS NEED NOT BE COMPLETED.

OIL FIRING			
18. TYPE OF OIL: GRADE NUMBER: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 OTHER: SPECIFY Off-specification used oil			
19. ANNUAL CONSUMPTION:	20. HEAT CONTENT:	<input checked="" type="checkbox"/> BTU/LB <input type="checkbox"/> BTU/GAL	
1,000,000 (requested) GALLONS	17,000		
21. SULFUR CONTENT:	22. ASH CONTENT:		
1 % BY WT	2.6 % BY WT		
23. DIRECTION OF FIRING: <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> TANGENTIAL <input type="checkbox"/> OTHER: SPECIFY			
24. AVERAGE FIRING RATE:	25. MAXIMUM FIRING RATE:		
50MM BTU/HR	50 MM BTU/HR		

SOLID FUEL FIRING			
26. TYPE OF SOLID FUEL <input type="checkbox"/> SUB-BITUMINOUS COAL <input type="checkbox"/> BITUMINOUS COAL <input type="checkbox"/> ANTHRACITE COAL <input type="checkbox"/> OTHER: SPECIFY			
27. ANNUAL CONSUMPTION:	28. HEAT CONTENT AS FIRED:		
TONS	BTU/LB		
29. MOISTURE CONTENT AS FIRED:	30. ASH CONTENT AS FIRED:	31. SULFUR CONTENT AS FIRED:	
% BY WT.	% BY WT.	% BY WT.	
32. TYPE OF FIRING: <input type="checkbox"/> CYCLONE <input type="checkbox"/> PULVERIZED { <input type="checkbox"/> WET BOTTOM OR <input type="checkbox"/> DRY BOTTOM, <input type="checkbox"/> HORIZONTALLY OPPOSED OR <input type="checkbox"/> OTHER: SPECIFY _____			
<input type="checkbox"/> SPREADER STOKER: % REINJECTION		<input type="checkbox"/> OTHER: SPECIFY	
33. AVERAGE FIRING RATE:	34. MAXIMUM FIRING RATE:		
BTU/HR	BTU/HR		
SUBMIT COPIES OF THOSE PORTIONS OF COAL OR OTHER SOLID FUEL CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF SOLID FUELS, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND SET FORTH THE MANNER IN WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. REFERENCE THIS INFORMATION TO THIS FORM.			

*EMISSION INFORMATION				
35. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):				
AVERAGE OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	36a. GR/SCF	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
CARBON MONOXIDE	37a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
NITROGEN OXIDES	38a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
ORGANIC MATERIAL	39a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
SULFUR DIOXIDE	40a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
MAXIMUM OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	41a. GR/SCF	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
CARBON MONOXIDE	42a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
NITROGEN OXIDES	43a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
ORGANIC MATERIAL	44a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
SULFUR DIOXIDE	45a. PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	

* IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

**EXHAUST POINT INFORMATION			
46. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT			
See plot plan - only stack noted on the plot plan.			
47. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):			
48. EXIT HEIGHT ABOVE GRADE:	157 ft	50. EXIT DIAMETER:	5' - 4"
49. GREATEST HEIGHT OF NEARBY BUILDINGS:		51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:	FT
AVERAGE OPERATION		MAXIMUM OPERATION	
52. EXIT GAS TEMPERATURE:	183 °F	54. EXIT GAS TEMPERATURE:	°F
53. GAS FLOW RATE THROUGH EACH EXIT:	74,700 ACFM	55. GAS FLOW RATE THROUGH EACH EXIT:	ACFM

** IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.

STATE OF ILLINOIS
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 SPRINGFIELD, ILLINOIS 62702

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<p>* DATA AND INFORMATION</p> <p>AIR POLLUTION CONTROL EQUIPMENT</p>	
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* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF OWNER: Lafarge North America	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF CONTROL EQUIPMENT: 2150 East 130th Street	4. CITY OF CONTROL EQUIPMENT Chicago
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: Baghouse	

INSTRUCTIONS
1. COMPLETE THE ABOVE IDENTIFICATION SECTION.
2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OR THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
AVERAGE - THE VALUE THAT <u>SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE</u> , OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.
MAXIMUM - THE GREATEST VALUE <u>ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE</u> , OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

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ADSORPTION UNIT	
1. FLOW DIAGRAM DESIGNATION(S) OF ADSORPTION UNIT:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. ADSORBENT: <input type="checkbox"/> ACTIVATED CHARCOAL: TYPE _____ <input type="checkbox"/> OTHER: SPECIFY _____	
5. ADSORBATE(S):	
6. NUMBER OF BEDS PER UNIT:	7. WEIGHT OF ADSORBENT PER BED: _____ LB
8. DIMENSIONS OF BED: THICKNESS _____ IN, SURFACE AREA _____ SQUARE IN	
9. INLET GAS TEMPERATURE: _____ °F	9. PRESSURE DROP ACROSS UNIT: _____ INCH H ₂ O GAUGE
11. TYPE OF REGENERATION: <input type="checkbox"/> REPLACEMENT <input type="checkbox"/> STEAM <input type="checkbox"/> OTHER: SPECIFY _____	
12. METHOD OF REGENERATION: <input type="checkbox"/> ALTERNATE USE OF _____ ENTIRE UNITS <input type="checkbox"/> ALTERNATE USE OF _____ BEDS IN A SINGLE UNIT <input type="checkbox"/> SOURCE SHUT DOWN <input type="checkbox"/> OTHER: DESCRIBE _____	
AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
13. TIME ON LINE BEFORE REGENERATION: _____ MIN/BED	15. TIME ON LINE BEFORE REGENERATION: _____ MIN/BED
14. EFFICIENCY OF ABSORBER (SEE INSTRUCTION 4): _____ %	16. EFFICIENCY OF ABSORBER (SEE INSTRUCTION 4): _____ %

AFTERBURNER	
1. FLOW DIAGRAM DESIGNATION(S) OF AFTERBURNER:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COMBUSTION CHAMBER DIMENSIONS: LENGTH _____ IN, CROSS-SECTIONAL AREA _____ SQUARE IN	
5. INLET GAS TEMPERATURE: _____ °F	7. FUEL: <input type="checkbox"/> GAS <input type="checkbox"/> OIL: SULFUR _____ WT%
6. OPERATING TEMPERATURE OF COMBUSTION CHAMBER: _____ °F	8. BURNERS PER AFTERBURNER: _____ @ _____ BTU/HR EACH
9. CATALYST USED: <input type="checkbox"/> NO <input type="checkbox"/> YES: DESCRIBE CATALYST _____	
10. HEAT EXCHANGER USED: <input type="checkbox"/> NO <input type="checkbox"/> YES: DESCRIBE HEAT EXCHANGER _____	
AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
11. GAS FLOW RATE: _____ SCFM	13. GAS FLOW RATE: _____ SCFM
12. EFFICIENCY OF AFTERBURNER (SEE INSTRUCTION 4): _____ %	14. EFFICIENCY OF AFTERBURNER (SEE INSTRUCTION 4): _____ %

CYCLONE

1. FLOW DIAGRAM DESIGNATION(S) OF CYCLONE:

2. MANUFACTURER:

3. MODEL:

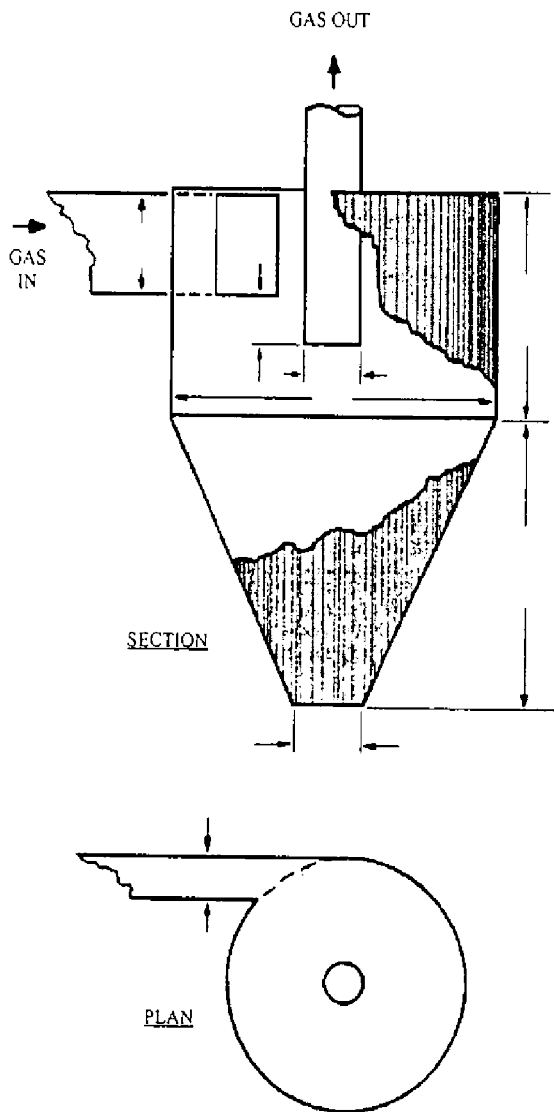
4. TYPE OF CYCLONE:

SIMPLE MULTIPLE

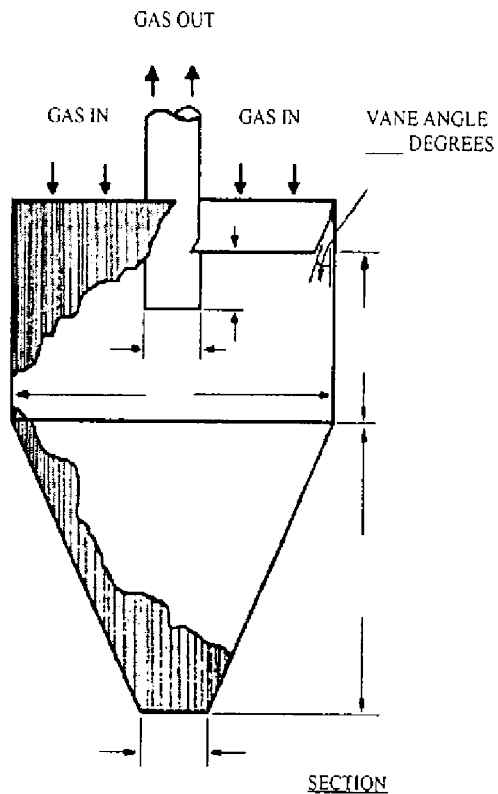
5. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:

6. DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A DRAWING WITH EQUIVALENT INFORMATION:

TANGENTIAL INLET CYCLONE



AXIAL INLET CYCLONE
(INDIVIDUAL CYCLONE OF MULTIPLE CYCLONE)



NOT TO SCALE

AVERAGE OPERATION OF SOURCE

MAXIMUM OPERATION OF SOURCE

7. GAS FLOW RATE:

SCFM

9. GAS FLOW RATE:

SCFM

8. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4):

%

10. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4):

%

CONDENSER			
1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:			
2. MANUFACTURER:		3. MODEL NAME AND NUMBER:	
		4. HEAT EXCHANGE AREA: FT²	
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____		10. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET _____ °F OUTLET _____ °F		12. COOLANT TEMPERATURE: INLET _____ °F OUTLET _____ °F	
8. GAS TEMPERATURE: INLET _____ °F OUTLET _____ °F		13. GAS TEMPERATURE: INLET _____ °F OUTLET _____ °F	
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR			
1. FLOW DIAGRAM DESIGNATION(S) OF ELECTRICAL PRECIPITATOR:			
2. MANUFACTURER:		3. MODEL NAME AND NUMBER:	
		4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT²	
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. GAS FLOW RATE: SCFM		7. GAS FLOW RATE: SCFM	
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %		8. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %	
SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.			

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT			
1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT:			
2. MANUFACTURER: Airtrol		3. MODEL NAME AND NUMBER: 588BSRH144	
4. FILTERING MATERIAL:		5. FILTERING AREA: FT² 11,084	
6. CLEANING METHOD: <input type="checkbox"/> SHAKER <input type="checkbox"/> REVERSE AIR <input type="checkbox"/> PULSE AIR <input checked="" type="checkbox"/> PULSE JET <input type="checkbox"/> OTHER: SPECIFY _____			
7. GAS COOLING METHOD: <input type="checkbox"/> DUCT WORK: LENGTH _____ FT., DIAM _____ IN <input type="checkbox"/> BLEED-IN AIR <input type="checkbox"/> WATER SPRAY <input type="checkbox"/> OTHER: SPECIFY _____			
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
8. GAS FLOW RATE (FROM SOURCE): SCFM 55,400		12. GAS FLOW RATE (FROM SOURCE): SCFM 55,400	
9. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM		13. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM	
10. INLET GAS CONDITION: TEMPERATURE _____ °F DEWPOINT _____ °F		14. INLET GAS CONDITION: TEMPERATURE _____ °F DEWPOINT _____ °F	
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99 %		15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99 %	

From: <Gil.Peterson@lafarge-na.com>
To: <john.blazis@illinois.gov>
Date: Monday, December 11, 2006 1:15:05 PM
Subject: Used Oil

John

You are right about the used oil lead concentration used to determine the emission factor in our spreadsheet. I have changed the emission factor to represent a lead concentration of 150 PPM (worst case) in the oil. The previous emission factor was based on 1 PPM. The updated spreadsheet is attached.

Let me know if this works for you.

Thanks.

(See attached file: slag dryer emissions upd Dec 06 lead.xls)

Gil Peterson
Environmental Engineer
Lafarge North America - Alpena Plant
Ph 989-358-3346
Cell 989-657-6404
Fax 989-354-2223

This e-mail is confidential. If you are not the intended recipient, please notify the sender and delete this e-mail and any attachments without copying, disclosing or retaining it in any form.

Ce courriel est confidentiel. Si vous n'êtes pas le destinataire designé, veuillez en informer l'expéditeur et supprimer ce courriel ainsi que tous fichiers joints sans les copier, divulguer ou conserver d'aucune façon.

Lafarge - South Chicago, Used Oil in Slag Grinding Calculations

Dec-06

Table 1. Input Values

Parameter	Value
Raw Grind	
Actual Gas Use - 2004-05 Avg. (10 ⁶ SCF/yr)	125,000
Actual Heat Input (MMBtu/yr)	120,500
Oil Use at 100% NG Replacement (1000 gal/yr)	954,953
Oil Use Target for Permit (1000 gal/yr)	1,000,000
Oil Use at Burner Capacity, 8760 hr/yr (1000 gal/yr)	3,471,116
Raw Grind Heat Capacity (MMBtu/hr)	50
Raw Grind Gas Capacity (10 ⁶ SCF/hr)	0.0519
Natural Gas Heat Content (Btu/scf)	964
Raw Grind Oil Capacity (10 ³ gal/hr)	0.3962
Used Oil	
Heat Content (Btu/lb)	17,000
Density (g/ml)	0.89
Used Oil Heat Content (Btu/gal)	126,184
Oil Sulfur Content (%)	1

Table 2. Actual Emissions from Dryer Natural Gas Use

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Actual Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ⁶ scf)	Emission Factor Reference			
NOx		100	AP-42, Table 1.4-1	0	6.25	5.19
CO		84	AP-42, Table 1.4-1	0	5.25	4.36
Pb		0.0005	AP-42, Table 1.4-2	99	3.13E-07	2.59E-07
PM total/PM ₁₀		7.6	AP-42, Table 1.4-2	99	4.75E-03	3.94E-03
SO ₂		0.6	AP-42, Table 1.4-2	0	3.75E-02	3.11E-02
VOC		5.5	AP-42, Table 1.4-2	0	3.44E-01	2.85E-01

Table 3. Potential Emissions from Dryer Oil Use (with 1 MM gal/yr limit)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	27.50	21.79
CO		5	AP-42, Table 1.3-1	0	2.50	1.98
Pb	**	2.26E-01	AP-42, + fuel data	0	0.11	0.09
PM total		11.5	AP-42, Table 1.3-1&2	99	0.06	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5 Stoichiometry (1% S, 7.4 lb/gal)	99	0.05	0.04
SO ₂		148		0	74.00	58.64
VOC		1.28	AP-42, Table 1.3-3	0	0.64	0.51

Table 4. Potential Emissions from Dryer Oil Use (assuming 8760hr/yr on oil)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	95.46	21.79
CO		5	AP-42, Table 1.3-1	0	8.68	1.98
Pb	**	2.26E-01	AP-42, + fuel data	0	0.39	0.09
PM total		11.5	AP-42, Table 1.3-1&2	99	0.20	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5 Stoichiometry (1% S, 7.4 lb/gal)	99	0.17	0.04
SO ₂		148		0	256.86	58.64
VOC		1.28	AP-42, Table 1.3-3	0	2.22	0.51

b.c. IBD 6/12/89 → B. Bernstein

R 010903



Cement

June 30, 2006

Mr. John Blazis
Illinois Environmental Protection Agency
Division of Air Pollution Control
1021 North Grand Avenue East
PO Box 19506
Springfield, IL 62794-9506

RE: Proposed Use of Off-specification Used Oil at Lafarge North America, S. Chicago Facility, 2150 E. 130th St.,
Lifetime Operating Permit, I.D. No.: 031600FHQ

Dear Mr. Blazis:


Lafarge operates a granulated blast furnace slag grinding and drying operation at our facility in S. Chicago. The furnace is currently fired with natural gas. Lafarge desires to use off-specification used oil as a heat source in the furnace. Under applicable state regulations, the burning off-specification used oil for energy recovery is limited to certain devices. One such device is an industrial furnace. Lafarge requested a determination from the IEPA that the equipment where the fuel is burned meets the regulatory criteria for an industrial boiler as specified in 35 Ill. Adm. Code 720.11 of the Illinois Air Pollution Control Regulations (see also 40 CFR Part 279.61(a)(2)). In a letter dated April 20, 2006, the IEPA agreed with our position.

This document therefore represents an application to construct as required under Section 201.142 of the Illinois Air Pollution Control Regulations. The modification will involve replacement of the existing 40 MMBtu/hr gas burner with a dual-fuel burner, capable of firing both natural gas and oil simultaneously. The new burner will have a similar rated heat capacity. The use of oil will not change the synthetic minor status of the facility.

If you have any questions or require further information please contact me at 989-358-3346.

Sincerely,

Lafarge North America


Gil Peterson
Environmental Engineer

cc: Tony Turner – Lafarge, S. Chicago
Brian Gasiorowski – Lafarge, Bingham Farms
Bob Budnik – Lafarge, Alpena

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JUL 03 2006

IEPA - DAPC - SPFLD

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUN 30 2015

REVIEWER JRM

GREAT LAKES REGION – ALPENA PLANT
1435 Ford Avenue, PO Box 396, Alpena, MI 49707.
OFFICE: (989) 354-4171 FAX: (989) 354-2223
Web: www.lafargenorthamerica.com



STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 PERMIT SECTION
 P. O. BOX 19506
 SPRINGFIELD, ILLINOIS 62794-9506

R 010904

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/38. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

APPLICATION FOR PERMIT (A)		FOR AGENCY USE ONLY	
<input type="checkbox"/> CONSTRUCT <input checked="" type="checkbox"/> OPERATE		I.D. NO. <u>031600 FHQ</u>	
NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED <u>Slag Drying and Grinding</u> (B)		PERMIT NO. <u>98010053</u>	
		DATE <u>7/3/06</u>	

NOTE: THIS APPLICATION FORM IS ONLY FOR SOURCES NOT REQUIRED TO OBTAIN A FESOP OR CAAPP PERMIT PURSUANT SECTION 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT.

1a. NAME OF OWNER: <u>Lafarge Midwest, Inc.</u>		2a. NAME OF OPERATOR: <u>Lafarge North America</u>	
1b. STREET ADDRESS OF OWNER: <u>30600 Telegraph Road, Suite 4000</u>		2b. STREET ADDRESS OF OPERATOR: <u>2150 East 130th Street</u>	
1c. CITY OF OWNER: <u>Bingham Farm</u>		2c. CITY OF OPERATOR: <u>Chicago</u>	
1d. STATE OF OWNER: <u>Michigan</u>	1e. ZIP CODE: <u>48025</u>	2d. STATE OF OPERATOR: <u>Illinois</u>	2e. ZIP CODE: <u>60633</u>

3a. NAME OF CORPORATE DIVISION OR PLANT: <u>South Chicago Cement Distribution & Slag Drvina</u>		3b. STREET ADDRESS OF EMISSION SOURCE: <u>2150 East 130th Street</u>		
3c. CITY OF EMISSION SOURCE: <u>Chicago</u>	3d. LOCATED WITHIN CITY LIMITS: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3e. TOWNSHIP: <u>Not applicable</u>	3f. COUNTY: <u>Cook</u>	3g. ZIP CODE: <u>60633</u>

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) <u>Gil Peterson</u>	5. YOUR DESIGNATION FOR THIS APPLICATION: (C) <u>Slag Dryer Used Oil Application</u>
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input type="checkbox"/> EMISSION SOURCE	7. WHO IS THE PERMIT APPLICANT? <input checked="" type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS/HER SIGNATURE HERETO THE UNDERSIGNED FURTHER CERTIFIES THAT HE/SHE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

RECEIVED

AUTHORIZED SIGNATURE(S): (D)	
BY <u>Tony Turner</u> <u>6-19-06</u> BY <u>JUL 03 2006</u>	
SIGNATURE DATE	SIGNATURE DATE
TYPED OR PRINTED NAME OF SIGNER <u>Plant Manager</u>	TYPED OR PRINTED NAME OF SIGNER <u>JEPA DAPC - SPFLD</u>
TITLE OF SIGNER	TITLE OF SIGNER

(A) THIS FORM IS TO PROVIDE THE ILLINOIS EPA WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY BE USED TO REQUEST A CONSTRUCTION PERMIT, AN OPERATING PERMIT, OR A JOINT CONSTRUCTION AND OPERATING PERMIT.

(B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.

(C) PROVIDE A DESIGNATION IN ITEM 5 ABOVE WHICH YOU WOULD LIKE THE ILLINOIS EPA TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS. (OPTIONAL)

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH 35 ILL. ADM. CODE 201.154 OR 201.159 WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE ILLINOIS EPA A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

BILLING INFORMATION		10. CONTACT PERSON FOR APPLICATION: Gil Peterson	
9a. COMPANY NAME: Lafarge North America		11. CONTACT PERSON'S TELEPHONE NUMBER: (989) 358-3346	
9b. STREET ADDRESS: 1435 Ford Avenue		12. CONTACT PERSON'S FACSIMILE NUMBER: (989) 354-2223	
9c. CITY: Alpena		13. FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): 58-1290226	
9d. STATE: Michigan	9f. BILLING CONTACT PERSON: Gil Peterson	14. PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY: 32	
9e. ZIP CODE: 49707	9g. CONTACT TELEPHONE NO.: (989) 358-3346	15. PRIMARY SIC NUMBER: 3295	16. TAXPAYER IDENTIFICATION NUMBER (TIN): 52-2233816

17. DOES THIS APPLICATION CONTAIN FORM 197-FEE, "CONSTRUCTION PERMIT APPLICATION FEE DETERMINATION?"
 YES NO

18. DOES THE APPLICATION CONTAIN A PLOT PLAN/MAP?
 YES NO
 IF THE PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:
 I. D. NO.: _____ APPLICATION NUMBER _____
 IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE?
 YES NO IF "NO", SPECIFY _____ ACRES

19. DOES THE APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE? YES NO Please see note below.

20. IS THE EMISSION UNIT COVERED BY THIS APPLICATION ALREADY CONSTRUCTED? YES NO
 IF "YES", PROVIDE THE DATE CONSTRUCTION WAS COMPLETED: April 2002

21. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION-INCORPORATION BY REFERENCE" BEEN SUBMITTED? YES NO

APPLICATION FOR OPERATING PERMIT ONLY	22. DOES THE STARTUP OF AN EMISSION UNIT COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSIONS IN EXCESS OF APPLICABLE STANDARDS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF "YES", HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS UNIT? <input type="checkbox"/> YES <input type="checkbox"/> NO
	23. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION UNIT DURING MALFUNCTIONS OR BREAKDOWNS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF "YES", HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS UNIT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	24. IS AN EMISSION UNIT COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE? <input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE" BEEN COMPLETED FOR THIS UNIT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	25. DOES THE SOURCE COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

26. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS OF EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):

Form APC-200 Pages 1-2	
Form APC-240 (Pages 3-5)	
Form APC-260 (Pages 6-11)	
197-Fee form (Pages 12-13)	
Emission calculations (Page 14)	
Facility Plot Plan (Page 15)	
Process flow diagram (Page 16)	

TOTAL NUMBER OF PAGES 16



FEE DETERMINATION FOR CONSTRUCTION PERMIT APPLICATION	FOR AGENCY USE ONLY	
	ID NUMBER:	
	PERMIT #:	
	COMPLETE <input type="checkbox"/>	DATE COMPLETE:
	INCOMPLETE <input type="checkbox"/>	
CHECK #:	ACCOUNT NAME:	

THIS FORM IS TO BE USED BY ALL SOURCES TO SUPPLY FEE INFORMATION THAT MUST ACCOMPANY ALL CONSTRUCTION PERMIT APPLICATIONS. THIS APPLICATION MUST INCLUDE PAYMENT IN FULL TO BE DEEMED COMPLETE. MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS ABOVE. DO NOT SEND CASH. REFER TO INSTRUCTIONS (197-INST) FOR ASSISTANCE.

SOURCE INFORMATION		
1) SOURCE NAME: Lafarge North America		
2) PROJECT NAME: Off-spec used oil use in slag dryer	3) SOURCE ID NO. (IF APPLICABLE): 031600FHQ	

FEE DETERMINATION		
4) FILL IN THE FOLLOWING THREE BOXES AS DETERMINED IN SECTIONS 1 THROUGH 4 BELOW:		
\$ 0	+	\$ 2,000
SECTION 1 SUBTOTAL		=
		\$ 2,000
		GRAND TOTAL

SECTION 1: STATUS OF SOURCE / PURPOSE OF SUBMITTAL	
5) YOUR APPLICATION WILL FALL UNDER ONLY ONE OF THE FOLLOWING SIX CATEGORIES DESCRIBED BELOW. CHECK THE BOX THAT APPLIES, ENTER THE CORRESPONDING FEE IN THE BOX TO THE RIGHT AND COPY THIS FEE INTO THE SECTION 1 SUBTOTAL BOX ABOVE. PROCEED TO APPLICABLE SECTIONS.	
FOR PURPOSES OF THIS FORM:	
<ul style="list-style-type: none"> • MAJOR SOURCE IS A SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT. • SYNTHETIC MINOR SOURCE IS A SOURCE THAT HAS TAKEN LIMITS ON POTENTIAL TO EMIT IN A PERMIT TO AVOID CAAPP PERMIT REQUIREMENTS (E.G., FESOP). • NON-MAJOR SOURCE IS A SOURCE THAT IS NOT A MAJOR OR SYNTHETIC MINOR SOURCE. 	
<input checked="" type="checkbox"/> EXISTING SOURCE WITHOUT STATUS CHANGE OR WITH STATUS CHANGE FROM SYNTHETIC MINOR TO MAJOR SOURCE OR VICE VERSA. ENTER \$0 AND PROCEED TO SECTION 2.	\$ 0 <hr/> SECTION 1 SUBTOTAL
<input type="checkbox"/> EXISTING NON-MAJOR SOURCE THAT WILL BECOME SYNTHETIC MINOR OR MAJOR SOURCE. ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> EXISTING MAJOR OR SYNTHETIC MINOR SOURCE THAT WILL BECOME NON-MAJOR SOURCE. ENTER \$4,000 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> NEW MAJOR OR SYNTHETIC MINOR SOURCE. ENTER \$5,000 AND PROCEED TO SECTION 4.	
<input type="checkbox"/> NEW NON-MAJOR SOURCE. ENTER \$500 AND PROCEED TO SECTION 3.	
<input type="checkbox"/> AGENCY ERROR. IF THIS IS A TIMELY REQUEST TO CORRECT AN ISSUED PERMIT THAT INVOLVES ONLY AN AGENCY ERROR AND IF THE REQUEST IS RECEIVED WITHIN THE DEADLINE FOR A PERMIT APPEAL TO THE POLLUTION CONTROL BOARD, THEN ENTER \$0. SKIP SECTIONS 2, 3 AND 4. PROCEED DIRECTLY TO SECTION 5.	

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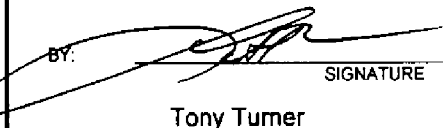
SECTION 2: SPECIAL CASE FILING FEE	
6) FILING FEE. IF THE APPLICATION ONLY ADDRESSES ONE OR MORE OF THE FOLLOWING, CHECK THE APPROPRIATE BOXES, ENTER \$500 IN THE SECOND BOX UNDER FEE DETERMINATION ABOVE, SKIP SECTIONS 3 AND 4 AND PROCEED DIRECTLY TO SECTION 5. OTHERWISE, PROCEED TO SECTION 3 OR 4, AS APPROPRIATE.	
<input type="checkbox"/> ADDITION OR REPLACEMENT OF CONTROL DEVICES ON PERMITTED UNITS <input type="checkbox"/> PILOT PROJECTS/TRIAL BURNS BY A PERMITTED UNIT <input type="checkbox"/> APPLICATIONS ONLY INVOLVING INSIGNIFICANT ACTIVITIES UNDER 35 IAC 201.210 (MAJOR SOURCES ONLY) <input type="checkbox"/> LAND REMEDIATION PROJECTS <input type="checkbox"/> REVISIONS RELATED TO METHODOLOGY OR TIMING FOR EMISSION TESTING <input type="checkbox"/> MINOR ADMINISTRATIVE-TYPE CHANGE TO A PERMIT	

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

SPFLD

SECTION 3: FEES FOR CURRENT OR PROJECTED NON-MAJOR SOURCES		
7) IF THIS APPLICATION CONSISTS OF A SINGLE NEW EMISSION UNIT OR NO MORE THAN TWO MODIFIED EMISSION UNITS, ENTER \$500.		7)
8) IF THIS APPLICATION CONSISTS OF MORE THAN ONE NEW EMISSION UNIT OR MORE THAN TWO MODIFIED UNITS, ENTER \$1,000.		8)
9) IF THIS APPLICATION CONSISTS OF A NEW SOURCE OR EMISSION UNIT SUBJECT TO SECTION 39.2 OF THE ACT (I.E., LOCAL SITING REVIEW); A COMMERCIAL INCINERATOR OR A MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR AN EMISSION UNIT DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$15,000.		9)
10) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.		10)
11) SECTION 3 SUBTOTAL (ADD LINES 7 THROUGH 10) TO BE ENTERED ON PAGE 1.		11)

SECTION 4: FEES FOR CURRENT OR PROJECTED MAJOR OR SYNTHETIC MINOR SOURCES			
Application Contains Modified Emission Units Only	12) FOR THE FIRST MODIFIED EMISSION UNIT, ENTER \$2,000.	12) \$2,000	
	13) NUMBER OF ADDITIONAL MODIFIED EMISSION UNITS = _____ X \$1,000.	13) \$0	
	14) LINE 12 PLUS LINE 13, OR \$5,000, WHICHEVER IS LESS.		14) \$2,000
Application Contains New And/Or Modified Emission Units	15) FOR THE FIRST NEW EMISSION UNIT, ENTER \$4,000.	15)	
	16) NUMBER OF ADDITIONAL NEW AND/OR MODIFIED EMISSION UNITS = _____ X \$1,000.	16)	
	17) LINE 15 PLUS LINE 16, OR \$10,000, WHICHEVER IS LESS.		17)
Application Contains Netting Exercise	18) NUMBER OF INDIVIDUAL POLLUTANTS THAT RELY ON A NETTING EXERCISE OR CONTEMPORANEOUS EMISSIONS DECREASE TO AVOID APPLICATION OF PSD OR NONATTAINMENT NSR = _____ X \$3,000.		18)
Additional Supplemental Fees	19) IF THE NEW SOURCE OR EMISSION UNIT IS SUBJECT TO SECTION 39.2 OF THE ACT (I.E., SITING); A COMMERCIAL INCINERATOR OR OTHER MUNICIPAL WASTE, HAZARDOUS WASTE, OR WASTE TIRE INCINERATOR; A COMMERCIAL POWER GENERATOR; OR ONE OR MORE OTHER EMISSION UNITS DESIGNATED AS A COMPLEX SOURCE BY AGENCY RULEMAKING, ENTER \$25,000.		19)
	20) IF THE SOURCE IS A NEW MAJOR SOURCE SUBJECT TO PSD, ENTER \$12,000.		20)
	21) IF THE PROJECT IS A MAJOR MODIFICATION SUBJECT TO PSD, ENTER \$6,000.		21)
	22) IF THIS IS A NEW MAJOR SOURCE SUBJECT TO NONATTAINMENT (NAA) NSR, ENTER \$20,000.		22)
	23) IF THIS IS A MAJOR MODIFICATION SUBJECT TO NAA NSR, ENTER \$12,000.		23)
	24) IF APPLICATION INVOLVES A DETERMINATION OF CLEAN UNIT STATUS AND THEREFORE IS NOT SUBJECT TO BACT OR LAER, ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.		24)
	25) IF APPLICATION INVOLVES A DETERMINATION OF MACT FOR A POLLUTANT AND THE PROJECT IS NOT SUBJECT TO BACT OR LAER FOR THE RELATED POLLUTANT UNDER PSD OR NSR (E.G., VOM FOR ORGANIC HAP), ENTER \$5,000 PER UNIT FOR WHICH A DETERMINATION IS REQUESTED OR OTHERWISE REQUIRED. _____ X \$5,000.		25)
26) IF A PUBLIC HEARING IS HELD (SEE INSTRUCTIONS), ENTER \$10,000.		26)	
27) SECTION 4 SUBTOTAL (ADD LINES 14 AND LINES 17 THROUGH 26) TO BE ENTERED ON PAGE 1.		27) \$2,000	

SECTION 5: CERTIFICATION	
NOTE: APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED INCOMPLETE.	
28) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE INFORMATION CONTAINED IN THIS FEE APPLICATION FORM IS TRUE, ACCURATE AND COMPLETE.	
BY: 	Site Manager - South Chicago
SIGNATURE	TITLE OF SIGNATORY
Tony Turner	6, 19, 06
TYPED OR PRINTED NAME OF SIGNATORY	DATE

Lafarge - South Chicago, Used Oil in Slag Grinding Calculations

Table 1. Input Values

Parameter	Value
Raw Grind	
Actual Gas Use - 2004-05 Avg. (10^6 SCF/yr)	125.000
Actual Heat Input (MMBtu/yr)	120,500
Oil Use at 100% NG Replacement (1000 gal/yr)	954.953
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Oil Use at Burner Capacity, 8760 hr/yr (1000 gal/yr)	3,471.116
Raw Grind Heat Capacity (MMBtu/hr)	50
Raw Grind Gas Capacity (10^6 SCF/hr)	0.0519
Natural Gas Heat Content (Btu/scf)	964
Raw Grind Oil Capacity (10^3 gal/hr)	0.3962
Used Oil	
Heat Content (Btu/lb)	17,000
Density (g/ml)	0.89
Used Oil Heat Content (Btu/gal)	126,184
Oil Sulfur Content (%)	1

Table 2. Actual Emissions from Dryer Natural Gas Use

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Actual Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor ($\text{lb}/10^6$ scf)	Emission Factor Reference			
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PM total/PM ₁₀		7.6	AP-42, Table 1.4-2	99	4.75E-03	3.94E-03
SO ₂		0.6	AP-42, Table 1.4-2	0	3.75E-02	3.11E-02
VOC		5.5	AP-42, Table 1.4-2	0	3.44E-01	2.85E-01

Table 3. Potential Emissions from Dryer Oil Use

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor ($\text{lb}/10^3$ gal)	Emission Factor Reference			
NO _x		55	AP-42, Table 1.3-1	0	27.50	21.79
CO		5	AP-42, Table 1.3-1	0	2.50	1.98
Pb		1.51E-03	Systech Qual. Analysis	0	7.55E-04	5.98E-04
PM total		11.5	AP-42, Table 1.3-1&2	99	0.06	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5 Stoichiometry (1% S, 7.4 lb/gal)	99	0.05	0.04
SO ₂		148	AP-42, Table 1.3-3	0	74.00	58.64
VOC		1.28	AP-42, Table 1.3-3	0	0.64	0.51

STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 1021 NORTH GRAND AVENUE, EAST
 SPRINGFIELD, ILLINOIS 62702

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<p>* DATA AND INFORMATION</p> <p>FUEL COMBUSTION EMISSION SOURCE</p>
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* THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AND EMISSION SOURCE USING DIRECT HEATING, IS EITHER A PROCESS EMISSION SOURCE OR AN INCINERATOR.

1. NAME OF PLANT OWNER: Lafarge North America	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 2150 East 130th Street	4. CITY OF EMISSION SOURCE: Chicago

GENERAL INFORMATION		
5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: Dryer		
6. MANUFACTURER: Coen Canada, Inc.	7. MODEL NUMBER: QL-3.2 Buner	8. SERIAL NUMBER: 50D-13758-1-000
9. AVERAGE OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK 52 WKS/YR	10. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK 52 WKS/YR	
11. PERCENT OF ANNUAL HEAT INPUT: DEC-FEB 25 % MAR-MAY 25 % JUN-AUG 25 % SEPT-NOV _____ %		

INSTRUCTIONS
<ol style="list-style-type: none"> 1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION. 2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR. 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT. 4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH <u>AVERAGE</u> AND <u>MAXIMUM</u> VALUES 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
<p>AVERAGE - THE VALUE THAT <u>SUMMARIZES</u> OR <u>REPRESENTS</u> THE <u>GENERAL CONDITION</u> OF THE <u>EMISSION SOURCE</u>, OR THE <u>GENERAL STATE</u> OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:</p> <p>AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.</p> <p>AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME.</p> <p>AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.</p> <p>MAXIMUM - THE <u>GREATEST</u> VALUE <u>ATTAINABLE</u> OR <u>ATTAINED</u> FOR THE <u>EMISSION SOURCE</u>, OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:</p> <p>MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD.</p> <p>MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.</p> <p>MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.</p>

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

GAS FIRING		
*11. ORIGIN OF GAS: <input type="checkbox"/> DISTILLATE FUEL <input type="checkbox"/> OTHER LIQUID FUEL <input type="checkbox"/> SOLID FUEL <input type="checkbox"/> BYPRODUCT <input checked="" type="checkbox"/> PIPELINE <input type="checkbox"/> OIL GASIFICATION <input type="checkbox"/> GASIFICATION <input type="checkbox"/> GASIFICATION <input type="checkbox"/> SPECIFY SOURCE		
12. ARE YOU ON AN INTERRUPTABLE GAS SUPPLY: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", SPECIFY ALTERNATE FUEL:		
13. ANNUAL CONSUMPTION: 125 MM SCF	*14. HEAT CONTENT: 964 BTU/SCF	*15. SULFUR CONTENT: Negligible % BY WT.
16. AVERAGE FIRING RATE: 50MM BTU/HR	17. MAXIMUM FIRING RATE: 50 MM BTU/HR	

* IF THE GAS FIRED IS NATURAL GAS, THESE ITEMS NEED NOT BE COMPLETED.

OIL FIRING		
18. TYPE OF OIL: GRADE NUMBER: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 OTHER: SPECIFY Off-specification used oil		
19. ANNUAL CONSUMPTION: 1,000,000 (requested) GALLONS	20. HEAT CONTENT: 17,000	<input checked="" type="checkbox"/> BTU/LB <input type="checkbox"/> BTU/GAL
21. SULFUR CONTENT: 1 % BY WT	22. ASH CONTENT: 2.6 % BY WT	
23. DIRECTION OF FIRING: <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> TANGENTIAL <input type="checkbox"/> OTHER: SPECIFY		
24. AVERAGE FIRING RATE: 50MM BTU/HR	25. MAXIMUM FIRING RATE: 50 MM BTU/HR	

SOLID FUEL FIRING		
26. TYPE OF SOLID FUEL: <input type="checkbox"/> SUB-BITUMINOUS COAL <input type="checkbox"/> BITUMINOUS COAL <input type="checkbox"/> ANTHRACITE COAL <input type="checkbox"/> OTHER: SPECIFY		
27. ANNUAL CONSUMPTION: TONS	28. HEAT CONTENT AS FIRED: BTU/LB	
29. MOISTURE CONTENT AS FIRED: % BY WT.	30. ASH CONTENT AS FIRED: % BY WT.	31. SULFUR CONTENT AS FIRED: % BY WT.
32. TYPE OF FIRING: <input type="checkbox"/> CYCLONE <input type="checkbox"/> PULVERIZED { <input type="checkbox"/> WET BOTTOM OR <input type="checkbox"/> DRY BOTTOM, <input type="checkbox"/> HORIZONTALLY OPPOSED OR <input type="checkbox"/> OTHER: SPECIFY _____		
<input type="checkbox"/> SPREADER STOKER: % REINJECTION <input type="checkbox"/> OTHER: SPECIFY		
33. AVERAGE FIRING RATE: BTU/HR	34. MAXIMUM FIRING RATE: BTU/HR	
SUBMIT COPIES OF THOSE PORTIONS OF COAL OR OTHER SOLID FUEL CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF SOLID FUELS, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND SET FORTH THE MANNER IN WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. REFERENCE THIS INFORMATION TO THIS FORM.		

*EMISSION INFORMATION				
35. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):				
AVERAGE OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE	b.	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	36a. GR/SCF	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
CARBON MONOXIDE	37a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
NITROGEN OXIDES	38a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
ORGANIC MATERIAL	39a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
SULFUR DIOXIDE	40a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
MAXIMUM OPERATION				
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE	b.	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	41a. GR/SCF	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
CARBON MONOXIDE	42a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
NITROGEN OXIDES	43a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
ORGANIC MATERIAL	44a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	
SULFUR DIOXIDE	45a. PPM (VOL)	<input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.	

* IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

**EXHAUST POINT INFORMATION	
46. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: See plot plan - only stack noted on the plot plan.	
47. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):	
48. EXIT HEIGHT ABOVE GRADE: 157 ft	50. EXIT DIAMETER: 5' - 4"
49. GREATEST HEIGHT OF NEARBY BUILDINGS:	51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: FT
AVERAGE OPERATION	MAXIMUM OPERATION
52. EXIT GAS TEMPERATURE: 183 °F	54. EXIT GAS TEMPERATURE: °F
53. GAS FLOW RATE THROUGH EACH EXIT: 74,700 ACFM	55. GAS FLOW RATE THROUGH EACH EXIT: ACFM

** IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.

STATE OF ILLINOIS
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 DIVISION OF AIR POLLUTION CONTROL
 1021 NORTH GRAND AVENUE, EAST
 SPRINGFIELD, ILLINOIS 62702

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<p>* DATA AND INFORMATION</p> <p>AIR POLLUTION CONTROL EQUIPMENT</p>	
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* THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF OWNER: <p style="text-align: center;">Lafarge North America</p>	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF CONTROL EQUIPMENT: <p style="text-align: center;">2150 East 130th Street</p>	4. CITY OF CONTROL EQUIPMENT <p style="text-align: right;">Chicago</p>
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: <p style="text-align: center;">Baghouse</p>	

INSTRUCTIONS
<ol style="list-style-type: none"> 1. COMPLETE THE ABOVE IDENTIFICATION SECTION. 2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM. 3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION. 4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION. 5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OR THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION. 6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
<p>AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:</p> <p>AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.</p> <p>MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:</p> <p>MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.</p>

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ADSORPTION UNIT	
1. FLOW DIAGRAM DESIGNATION(S) OF ADSORPTION UNIT:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. ADSORBENT: <input type="checkbox"/> ACTIVATED CHARCOAL: TYPE _____ <input type="checkbox"/> OTHER: SPECIFY _____	
5. ADSORBATE(S):	
6. NUMBER OF BEDS PER UNIT:	7. WEIGHT OF ADSORBENT PER BED: _____ LB
8. DIMENSIONS OF BED: THICKNESS _____ IN, SURFACE AREA _____ SQUARE IN	
9. INLET GAS TEMPERATURE: _____ °F	9. PRESSURE DROP ACROSS UNIT: _____ INCH H ₂ O GAUGE
11. TYPE OF REGENERATION: <input type="checkbox"/> REPLACEMENT <input type="checkbox"/> STEAM <input type="checkbox"/> OTHER: SPECIFY _____	
12. METHOD OF REGENERATION: <input type="checkbox"/> ALTERNATE USE OF _____ ENTIRE UNITS <input type="checkbox"/> ALTERNATE USE OF _____ BEDS IN A SINGLE UNIT <input type="checkbox"/> SOURCE SHUT DOWN <input type="checkbox"/> OTHER: DESCRIBE _____	
AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
13. TIME ON LINE BEFORE REGENERATION: _____ MIN/BED	15. TIME ON LINE BEFORE REGENERATION: _____ MIN/BED
14. EFFICIENCY OF ABSORBER (SEE INSTRUCTION 4): _____ %	16. EFFICIENCY OF ABSORBER (SEE INSTRUCTION 4): _____ %

AFTERBURNER	
1. FLOW DIAGRAM DESIGNATION(S) OF AFTERBURNER:	
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COMBUSTION CHAMBER DIMENSIONS: LENGTH _____ IN, CROSS-SECTIONAL AREA _____ SQUARE IN	
5. INLET GAS TEMPERATURE: _____ °F	7. FUEL: <input type="checkbox"/> GAS <input type="checkbox"/> OIL: SULFUR _____ WT%
6. OPERATING TEMPERATURE OF COMBUSTION CHAMBER: _____ °F	8. BURNERS PER AFTERBURNER: _____ @ _____ BTU/HR EACH
9. CATALYST USED: <input type="checkbox"/> NO <input type="checkbox"/> YES: DESCRIBE CATALYST _____	
10. HEAT EXCHANGER USED: <input type="checkbox"/> NO <input type="checkbox"/> YES: DESCRIBE HEAT EXCHANGER _____	
AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
11. GAS FLOW RATE: _____ SCFM	13. GAS FLOW RATE: _____ SCFM
12. EFFICIENCY OF AFTERBURNER (SEE INSTRUCTION 4): _____ %	14. EFFICIENCY OF AFTERBURNER (SEE INSTRUCTION 4): _____ %

CYCLONE

1. FLOW DIAGRAM DESIGNATION(S) OF CYCLONE:

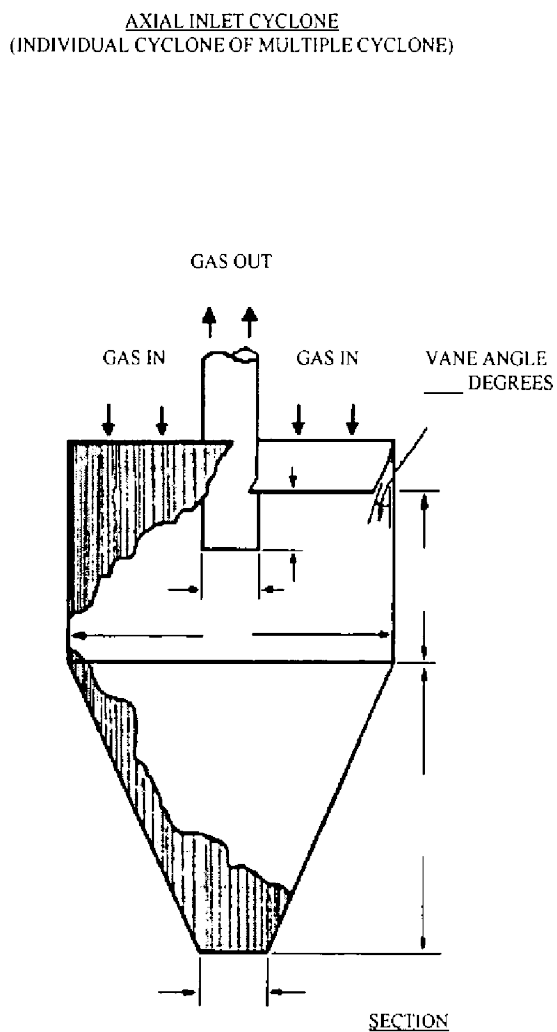
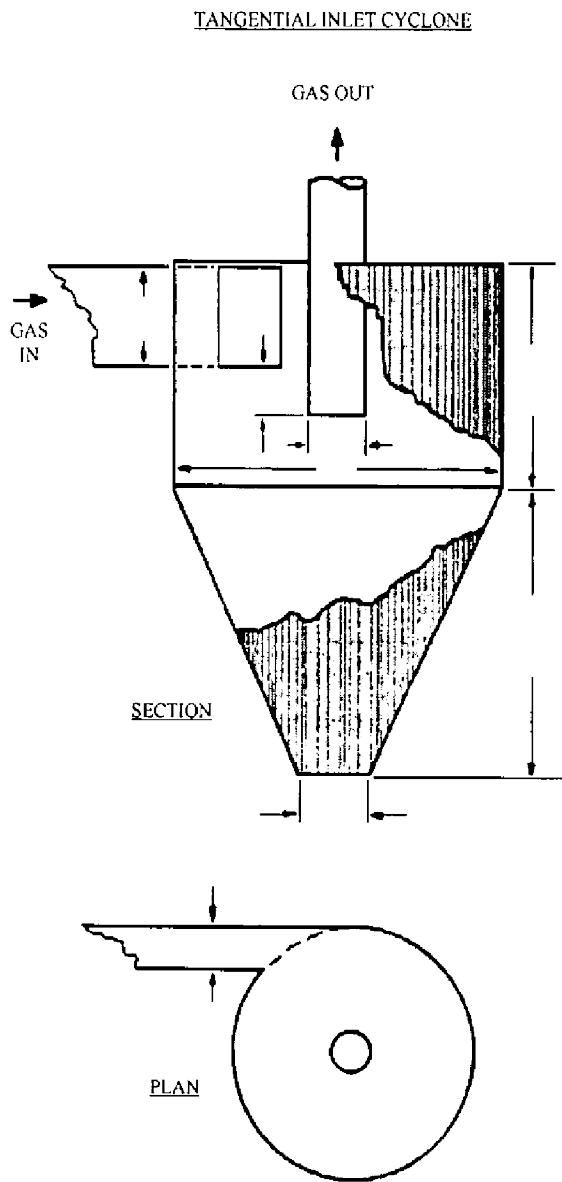
2. MANUFACTURER:

3. MODEL:

4. TYPE OF CYCLONE:
 SIMPLE MULTIPLE

5. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:

6. DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A DRAWING WITH EQUIVALENT INFORMATION:



NOT TO SCALE

AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
7. GAS FLOW RATE:	SCFM	9. GAS FLOW RATE:	SCFM
8. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4):	%	10. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4):	%

CONDENSER			
1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:			
2. MANUFACTURER:		3. MODEL NAME AND NUMBER:	
		4. HEAT EXCHANGE AREA: FT²	
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____		10. COOLANT FLOW RATE PER CONDENSER: WATER _____ GPM AIR _____ SCFM OTHER: TYPE _____, FLOW RATE _____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET _____ °F OUTLET _____ °F		12. COOLANT TEMPERATURE: INLET _____ °F OUTLET _____ °F	
8. GAS TEMPERATURE: INLET _____ °F OUTLET _____ °F		13. GAS TEMPERATURE: INLET _____ °F OUTLET _____ °F	
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR			
1. FLOW DIAGRAM DESIGNATION(S) OF ELECTRICAL PRECIPITATOR:			
2. MANUFACTURER:		3. MODEL NAME AND NUMBER:	
		4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT²	
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. GAS FLOW RATE: SCFM		7. GAS FLOW RATE: SCFM	
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %		8. EFFICIENCY OF ELECTRICAL PRECIPITATOR(SEE INSTRUCTION 4): %	
SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.			

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT			
1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT:			
2. MANUFACTURER: Airtrol		3. MODEL NAME AND NUMBER: 588BSRH144	
4. FILTERING MATERIAL:		5. FILTERING AREA: FT² 11,084	
6. CLEANING METHOD: <input type="checkbox"/> SHAKER <input type="checkbox"/> REVERSE AIR <input type="checkbox"/> PULSE AIR <input checked="" type="checkbox"/> PULSE JET <input type="checkbox"/> OTHER: SPECIFY _____			
7. GAS COOLING METHOD: <input type="checkbox"/> DUCT WORK: LENGTH _____ FT., DIAM _____ IN. <input type="checkbox"/> BLEED-IN AIR <input type="checkbox"/> WATER SPRAY <input type="checkbox"/> OTHER: SPECIFY _____			
AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
8. GAS FLOW RATE (FROM SOURCE): SCFM 55,400		12. GAS FLOW RATE (FROM SOURCE): SCFM 55,400	
9. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM		13. GAS COOLING FLOW RATE: BLEED-IN AIR _____ SCFM, WATER SPRAY _____ GPM	
10. INLET GAS CONDITION: TEMPERATURE _____ °F DEWPOINT _____ °F		14. INLET GAS CONDITION: TEMPERATURE _____ °F DEWPOINT _____ °F	
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99 %		15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99 %	

ILLINOIS POLLUTION CONTROL BOARD

April 20, 2006

IN THE MATTER OF:)
)
 PETITION OF LAFARGE MIDWEST, INC.) AS 06-1
 FOR BOILER DETERMINATION) (Adjusted Standard - Land)
 PURSUANT TO 35 Ill. Adm. Code 720.132)
 AND 720.133)

OPINION AND ORDER OF THE BOARD (by N.J. Melas):

Lafarge Midwest, Inc. (Lafarge) filed a petition seeking the Board's determination that a slag dryer operated at its South Chicago Slag Grinding Plant (Plant) located at 2150 East 130th Street in Chicago may be considered a "boiler" as defined in 35 Ill. Adm. Code 720.110 (definitions). A boiler determination would allow the Lafarge dryer to be used for the combustion of off-specification used oil for energy recovery in compliance with 35 Ill. Adm. Code 739.161. The Illinois Environmental Protection Agency (Agency) recommended that the Board grant Lafarge's amended petition, provided that Lafarge addressed specified issues with regard to the need for additional air pollution control devices or the modification of existing equipment and with regard to environmental impacts.

This is the Board's first boiler determination. In today's opinion, the Board finds on the basis of the record before it that Lafarge has provided sufficient justification under 35 Ill. Adm. Code 720.132 for a boiler designation for the slag dryer at the Plant.

This opinion will first describe the general procedure through which a petitioner may seek a boiler designation before providing the procedural and factual backgrounds of this case. The Board then analyzes the criteria by which the Board is to make boiler determinations on a case-by-case basis. Finally, the Board reaches its conclusion and issues its order.

BOILER DESIGNATION PROCEDURE AND JUSTIFICATION

In its Resource Conservation and Recovery Act (RCRA) waste disposal regulations, the Board has adopted standards for the management of used oil. 35 Ill. Adm. Code 739.100 *et seq.*; RCRA Update, USEPA Regulations (July 1, 1992 through December 31, 1992), R93-4 (Sept. 23, 1993) (adopting new Part 739); RCRA Update, USEPA Regulations (April 24, 1984 through June 30, 1985), R85-22 (Jan. 9, 1986) (adopting provisions regarding boiler determinations). Specifically, those used oil regulations allow burning of off-specification used oil for energy recovery in a limited number of devices including "[i]ndustrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes." 35 Ill. Adm. Code 739.161(a)(2)(A).

The Board has also promulgated regulations providing procedures and criteria for making a determination that certain devices are "boilers" that may be used for burning off-specification

used oil, even though those devices do not otherwise meet the definition of “boiler.” See 35 Ill. Adm. Code 720.132 (Boiler Determinations); 35 Ill. Adm. Code 720.133 (Procedures for Determinations); 35 Ill. Adm. Code 720.110 (defining “boiler” as enclosed device using controlled flame combustion and having specified characteristics).

The Board’s boiler determination regulations provide that a petitioner must seek a boiler determination through procedures for an adjusted standard: “[t]he Board will use the procedures of Subpart D of 35 Ill. Adm. Code 104 for determining . . . whether a particular enclosed flame combustion device is a boiler.” 35 Ill. Adm. Code 720.133; see 35 Ill. Adm. Code 104.400 – 104.428 (Adjusted Standards). Subpart D sets forth procedures for a petition for an adjusted standard. Among other requirements, Subpart D requires specific information that must be contained in the petition for a boiler determination. See 35 Ill. Adm. Code 104.406.

“The burden of proof in an adjusted standard proceeding is on the petitioner.” 35 Ill. Adm. Code 104.426. “If the regulation of general applicability specifies a level of justification for an adjusted standard, the Board may adopt the proposed adjusted standard, if the petitioner proves the level of justification specified by the regulation of general applicability.” 35 Ill. Adm. Code 104.426 (b); see 415 ILCS 5/28.1(b) (2004). As discussed above, the Board has specified the level of justification for making a boiler determination in Section 720.132. 35 Ill. Adm. Code 720.132. The Board determines on a case-by-case basis whether a device is a boiler, even though it does not otherwise meet the definition of one, by considering six criteria. 35 Ill. Adm. Code 720.132(a-f). Those criteria are: the extent to which the unit provides for recovering and exporting thermal energy; the extent to which the combustion chamber and energy recovery equipment are of integral design; the efficiency of energy recovery; the extent to which exported energy is used; the extent to which the device is in common and customary use as a “boiler;” and other relevant factors. *Id.* The Board addresses each of these six factors individually below under “Criteria for Determination.”

PROCEDURAL BACKGROUND

On September 12, 2005, Lafarge petitioned the Board (Pet.) for an adjusted standard from 35 Ill. Adm. Code 739.161, the Board’s waste disposal regulations restricting the burning of off-specification used oil for energy recovery. Lafarge waived its right to a hearing on the petition. Pet. at 31, see 35 Ill. Adm. Code 104.406(j).

The Act and the Board’s regulations require publication of notice of a petition for an adjusted standard in a newspaper of general circulation in the area likely to be affected by the petitioner’s activity. 415 ILCS 5/28.1(d)(1) (2004); 35 Ill. Adm. Code 104.408(a). The petitioner must publish notice within 14 days of filing a petition for an adjusted standard with the Board. 415 ILCS 5/28.1(d)(1) (2004); 35 Ill. Adm. Code 104.408(a). As required, Lafarge on September 30, 2005 timely filed with the Board proof of publication indicating the *Daily Southtown* published notice of the petition on September 15, 2005. See 35 Ill. Adm. Code 104.410 (requiring filing of certificate within 30 days after filing petition). The Board received no request to hold a hearing in this matter.

In an October 20, 2005 order, the Board found that Lafarge's petition did not fully satisfy the information requirements contained in the Board's rules. In re Petition of Lafarge Midwest, Inc. for and Adjusted Standard from 35 Ill. Adm. Code 739.161, AS 06-1, slip op. at 2-4 (Oct. 20, 2005); see 35 Ill. Adm. Code 104.406. Accordingly, the Board directed Lafarge to address eight points of information in an amended petition to be filed within 45 days. In re Petition of Lafarge Midwest, Inc. for and Adjusted Standard from 35 Ill. Adm. Code 739.161, AS 06-1, slip op. at 4 (Oct. 20, 2005).

On October 24, 2005, the Agency filed its recommendation (Rec.). The Agency stated it did not agree when Lafarge in January 2004 sought a determination that its slag dryer could be considered a boiler. Rec. at 1. The Agency reported that Lafarge since that time has satisfactorily addressed its comments and questions and has incorporated that information into the petition for an adjusted standard. Rec. at 1-2. Accordingly, "the Illinois EPA recommends that the adjusted standard be granted." Rec. at 3.

On December 5, 2005, Lafarge filed its amended petition for boiler designation (Am. Pet.). Lafarge again waived its right to a hearing on the amended petition. Am. Pet. at 43. On January 17, 2006, the Agency filed its amended recommendation (Am. Rec.). 35 Ill. Adm. Code 104.418(b). The Agency recommended granting the petition, provided that Lafarge addressed issues relating to the need for additional air pollution control devices or the modification of existing equipment and to environmental impacts. Am. Rec. at 1, 3-4. On January 30, 2006, Lafarge filed its response to the Agency's amended recommendation (Resp.).

FACTUAL BACKGROUND AND PETITION CONTENTS

Lafarge owns and operates the Plant (Am. Pet. at 2), which is located at "2150 East 130th Street, Chicago, Cook County, adjacent to the Calumet River and the southernmost portion of Lake Calumet." Am. Pet. at 3. In 2001 and 2002, Lafarge developed the Plant on existing Lafarge property that had been used since approximately 1987 as a terminal for storage and distribution of cement. *Id.* Lafarge characterizes the vicinity of the Plant as a "heavily industrialized area of active and closed steel mills, oil refineries, railroad yards, coke ovens, heavy manufacturing and waste disposal facilities." *Id.*

The Plant principally produces a slag cement product marketed under the trade name NewCem. Am. Pet. at 4. For that production, Lafarge first obtains blast furnace slag from Ispat-Inland, Inc., which generates the slag at its integrated steel facility in East Chicago, Indiana. *Id.* A blast furnace generates molten slag in the process of extracting iron from iron ore. *Id.* Molten iron and molten slag are removed separately from the furnace, and the molten slag forms granules or pellets when quenched with water. *Id.*

"NewCem is produced by drying and grinding a pelletized or granulated iron blast furnace slag to cement fineness." Am. Pet. at 4. Lafarge reports that it receives slag with a moisture content of 10-12%, "which guarantees a dust-free transfer." Am. Pet. at 9. The slag first moves through Lafarge's grinding operation for magnetic removal of metallic compounds before it enters the Plant's drying system. Am. Pet. at 9-10. "The slag dryer functions as a direct-fired process heater to reduce the moisture content of the blast furnace slag so that the slag

can be ground into a fine powder and processed into slag cement.” Am. Pet. at 10. The Plant “has the capacity to grind over 500,000 metric tons of granulated slag.” *Id.* Lafarge reports that it employs “fifteen salaried plant employees and one salaried distribution employee.” *Id.*

Lafarge notes that the Board has adopted standards for management of used oil. See 35 Ill. Adm. Code 739.100 *et seq.* Specifically, those regulations allow burning of off-specification used oil for energy recovery in “[i]ndustrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes.” Am. Pet. at 6, citing 35 Ill. Adm. Code 739.161(a)(2)(A).

Lafarge further notes that the Board has also promulgated regulations providing procedures and criteria for determining that certain devices are “boilers” that may be used for burning off-specification used oil, even though those devices do not otherwise meet the definition of “boiler.” Am. Pet. at 6, see 35 Ill. Adm. Code 720.110 (definition). “Section 720.132 establishes the criteria to be considered by the Board in making a case-by-case boiler determination and Section 720.133 mandates use of the Adjusted Standard procedures of Subpart D of 35 Ill. Adm. Code 104.” Am. Pet. at 6-7.

Lafarge notes that, in January 2004, it sought Agency confirmation that its slag dryer could be considered a “boiler” authorized to burn off-specification used oil. Am. Pet. at 13, citing 35 Ill. Adm. Code 720.110. The Agency responded “that the slag dryer ‘ . . . would not meet the definition of industrial boiler in 35 Ill. Adm. Code 720.110.’” Am. Pet. at 13 (citing letter from Agency land permit manager). Because of the Agency’s interpretation, Lafarge states that it “would not risk an enforcement action by proceeding to use off-specification used oil as a supplemental fuel in the slag dryer.” *Id.* Suggesting that it now uses only specification fuel, Lafarge states that “[t]here are no compliance alternatives, no capital improvements and no operational changes that would allow Petitioner to ‘comply with the regulation of general applicability.’” Am. Pet. at 14.

Lafarge notes that, to comply with federal and state emissions regulations, it submits to the Agency an Annual Emissions Report (AER) on activities at the Plant. Am. Pet. at 11-12. In its most recent AER filed March 15, 2005, Lafarge reported the following emissions for the entire facility: carbon monoxide (CO), 9.96 tons/year; nitrogen oxides (NO_x), 7.68 tons/year; particulate matter (PM), 11.54 tons/year; particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀), 6.01 tons/year; sulfur dioxide (SO₂), 0.59 tons/year; and volatile organic material (VOM), 9.07 tons/year. Am. Pet. at 12; see Am. Pet, Exh. E (2004 AER). Lafarge also reported that following emissions attributable specifically to its slag drying system: CO, 9.96 tons/year; NO_x, 7.68 tons/year; PM, 10.08 tons/year; PM₁₀, 5.02 tons/year; SO₂, 0.59 tons/year; and VOM, 9.07 tons/year. Am. Pet. at 12; see Am. Pet, Exh. E (2004 AER). In response to the Board’s October 20, 2005 request for more information, Lafarge states that “[o]ther than air emissions reported to the Illinois Environmental Protection Agency and summarized above, operation of the Grinding Plant results in no other discharges to the environment.” Am. Pet. at 13. The Agency “does not take issue with Petitioner’s statements on this subject.” Am. Rec. at 2.

In its amended petition, Lafarge notes that the Board requested cost information comparing specification fuel under the regulation of general applicability and off-specification fuel under the requested relief. Am. Pet. at 14. Lafarge “is proposing to supplement the use of natural gas with off-specification used oil” in its slag dryer. *Id.* Specifically, Lafarge “is proposing to use approximately 500,000 to 600,000 gallons of used oil fuel per year.” *Id.* Assuming use of 500,000 gallons per year and average costs of \$0.90 per gallon for specification used oil and \$0.67 per gallon for off-specification used oil, Lafarge expects to save \$115,000 annually by replacing specification used oil with off-specification used oil as fuel for its slag dryer. *Id.* Lafarge states that this additional cost savings “is required to make the project cost effective.” *Id.* Lafarge further states that the savings associated with use of specification used oil “do not justify the investment required to burn used oil.” *Id.*

Further, Lafarge expects the cost advantage of off-specification used oil to increase. Lafarge believes that increasing demand for natural gas will continue to outstrip new production, resulting in higher natural gas prices. *See* Am. Pet. at 15. However, Lafarge also foresees that market prices for specification and off-specification used oil will increase. Am. Pet. at 15-16. While high natural gas prices might once have led some industrial facilities to convert to the use of refined oil fuels, Lafarge suggests that oil prices of \$60-\$70 per barrel have all but eliminated the incentive for that conversion. Am. Pet. at 15. Generally high energy prices, according to Lafarge, have increased the demand for used oil, and that increased demand will tend to increase its market price. Am. Pet. at 16.

Lafarge notes that section 720.132 of the Board’s regulations provides criteria for making boiler determinations. Am. Pet. at 26, citing 35 Ill. Adm. Code 720.132. Lafarge further notes that these criteria closely track the regulatory definition of “boiler.” Am. Pet. at 26, citing 35 Ill. Adm. Code 720.110. Lafarge suggests that the Board’s analysis of the criteria in section 720.132 is an analysis of whether its slag dryer has the physical characteristics of a boiler. *See* Am. Pet. at 26; 35 Ill. Adm. Code 720.110 (definition of “boiler”). The Agency “does not take issue with Petitioner’s statements on this subject.” Am. Rec. at 4. The Board addresses each of those criteria below under “Criteria for Determination.”

Lafarge notes that sections 7.2 and 22.4(a) of the Act (415 ILCS 5/7.2, 22.4(a) (2004)) require the Board to adopt regulations that are “identical-in-substance” to hazardous waste regulations adopted by USEPA under RCRA. Am. Pet. at 42, citing 42 U.S.C. 6921 *et seq.* Lafarge further notes that federal and state regulations provide virtually identical mechanisms for determining whether a device is a “boiler” even if it does not otherwise meet the regulatory definition of that term. Am. Pet. at 42-43, citing 40 C.F.R. 260.32; 35 Ill. Adm. Code 720.132. Consequently, “[a]pproval by the Board of Lafarge’s Petition would be consistent with federal law and the implementing RCRA regulations.” Am. Pet. at 43. The Agency “does not take issue with Petitioner’s statements on this subject.” Am. Rec. at 2.

Finally, although it states that “[t]he regulation of general applicability does not specify any additional information requirements,” Lafarge requests that the Board consider the action of other regulatory agencies that have made boiler determinations. Am. Pet. at 43. Lafarge reports that the dryer at its Alpena, Michigan plant is “virtually identical” to the dryer that is the subject of this petition. Am. Pet. at 44. Lafarge emphasizes that the Michigan Department of

Environmental Quality determined that the Alpena dryer “meets the physical characteristics of a ‘boiler’” and approved Lafarge’s request to use off-specification used oil in it. *Id.*; Am. Pet., Exh. D. The Agency “does not take issue with Petitioner’s statements on this subject.” Am. Rec. at 4.

CRITERIA FOR DETERMINATION

Lafarge argues that it has demonstrated its slag dryer “satisfies each of the criteria specified at 35 Ill. Adm. Code 720.132 to be considered a boiler.” Am. Pet. at 27, citing 35 Ill. Adm. Code 720.132; *see* 35 Ill. Adm. Code 104.406(h) (justification). The Agency “does not take issue with Petitioner’s statements on this subject.” Am. Rec. at 4. The Board addresses each of the six criteria separately below.

Recovering and Exporting Thermal Energy (35 Ill. Adm. Code 720.132(a))

Lafarge states that the slag dryer recovers and exports the thermal energy it generates as heated gas. Lafarge further states that its process unit is a thermal dryer, which functions as a direct-fired process heater. Am. Pet. at 27. Thermal energy released by combustion of fuel is transferred to the wet blast furnace slag. *Id.* This process reduces the moisture content of the slag before it is ground to the desired particle size. Am. Pet. at 27-28. “The heat is then exported in the form of heated slag gases and water vapor” (Am. Pet. at 27), which discharge from the dryer through a cyclonic separator. The separator removes dried slag from the exhaust gas, which is cleaned by a fabric filter baghouse system before discharge into the atmosphere. *Id.*

Lafarge describes its dryer as “fully enclosed with an outer shell of steel.” Am. Pet. at 28. It characterizes the burning chamber as “lined with a high temperature resistant refractory material” and states that “the transport shaft is lined with ceramic tile.” *Id.* Consequently, Lafarge argues that “[t]he design is conducive to recovering as much energy as possible from the fuel.” *Id.*

On the basis of this record, the Board finds that Lafarge’s slag dryer does have provisions in its design and operation for recovering and exporting thermal energy released by the combustion of off-specification used oil fuel. *See* 35 Ill. Adm. Code 720.132(a). In this regard, the slag dryer shares physical characteristics with devices that meet the regulatory definition of “boiler.” *See* 35 Ill. Adm. Code 720.110. Accordingly, the Board’s consideration of this factor favors designating the slag dryer as a boiler.

Integral Design (35 Ill. Adm. Code 720.132(b))

While Lafarge states that the slag dryer is of integral design, Lafarge also argues that a Board finding to the contrary does not preclude a boiler determination under a regulatory exception. Lafarge states that its “dryer is an inline portion of the slag cement manufacturing process, in which the slag is dried, ground and size-classified to produce a salable cement product.” Am. Pet. at 28; *see* Am. Pet., Exh. C. (graphic depiction of dryer). Lafarge further

states that “[t]he combustion chamber and vertical shaft were assembled to be one piece of equipment” and that “[t]he dryer is fully enclosed and of integral design.” *Id.*

Lafarge notes that, under the definition of “boiler” in the Board’s regulations, “process heaters (units that transfer energy directly to a process stream)” “are not precluded from being boilers solely because they are not of integral design.” 35 Ill. Adm. Code 720.110. Lafarge argues that, “[b]ecause the slag dryer is a direct-fired process heater where the thermal energy of the combusted fuel is transformed to the wet slag being processed, the element of ‘integral design’ is not determinative in this proceeding.” Am. Pet. at 28. Because Lafarge claims that its slag dryer is fully enclosed and of integral design, Lafarge suggests that it satisfies this criterion regardless of whether the “process heater” exception applies to it. *See* Am. Pet. at 28; 35 Ill. Adm. Code 720.110.

The record in this proceeding demonstrates that Lafarge’s slag dryer is a direct-fired process heater, which shares physical characteristics with devices that meet the regulatory definition of “boiler.” *See* 35 Ill. Adm. Code 720.110. As such, Lafarge’s slag dryer qualifies for the “process heater” exception under section 720.110. *Id.* Accordingly, the Board’s consideration of this factor favors designating the slag dryer as a boiler.

Efficiency of Energy Recovery (35 Ill. Adm. Code 720.132(c))

Lafarge asserts that the slag dryer has an energy recovery efficiency greater than the regulatory minimum for boilers. Lafarge first notes that the regulatory definition of “boiler” sets a standard for thermal energy recovery efficiency: “[w]hile in operation, the unit must maintain a thermal energy recovery efficiency of at least 60 percent, calculated in terms of the recovered energy compared with the thermal value of the fuel.” Am. Pet. at 34, citing 35 Ill. Adm. Code 720.110. Lafarge reports that, in order to calculate efficiency of energy recovery, it conducted a detailed analysis of its slag drying system. Am. Pet. at 29. Specifically, Lafarge developed a heat balance, which “is essentially a detailed accounting of the distribution of heat input, heat output and system losses.” Am. Pet. at 32. The heat balance provides “input variables for the thermal efficiency calculations.” Am. Pet. at 29. Ultimately, Lafarge concluded that its slag drying system “achieves a thermal energy efficiency of 79.23%, (Am. Pet. at 35, citing 40 C.F.R. 260.10(1)(iii)), exceeding the regulatory minimum of 60% recovery. *See* 35 Ill. Adm. Code 720.110.

Lafarge states that it relied on two engineering assumptions in preparing heat balance calculations. Am. Pet. at 32. The first of these, the “false air” input into the system, “takes into account devices such as expansion joints, inspection doors/ports, normal equipment wear, and any other in-leakage inherent with the system.” Am. Pet. at 32-33. Lafarge states that a false air value of 10% is an “accepted assumption” for “newer combustion equipment and mineral drying systems.” Am. Pet. at 32. The second assumption, “shell radiation,” accounts for heat lost from the dryer. Am. Pet. at 33. Lafarge states that an assumption of 2.5% for shell radiation is generally accepted for heat losses from newer equipment such as its dryer. *Id.*

Lafarge notes that, in requesting more information regarding the original petition, the Board sought documentation or affidavits regarding the assumptions made in calculating the

energy recovery efficiency. *See* Am. Pet. at 33-34. In response, Lafarge submitted the affidavit of David Ledesma, who “provides engineering support for Lafarge’s cement manufacturing and mineral processing facilities,” including the Alpena and Chicago plants. Am. Pet. at 34; Am. Pet., Exh. I. Mr. Ledesma states the opinion,

based on project experience, engineering judgment, consultation with other engineering professionals and a reasonable degree of scientific certainty, that use of a value of 10% for the ‘false air’ assumption and a value of 2.5% for the ‘shell radiation’ loss assumption are appropriate in conducting a heat balance calculation for a slag dryer used for the production of slag cement.” Am. Pet., Exh. I.

The record in this proceeding demonstrates that Lafarge’s slag dryer achieves a thermal energy recovery efficiency of 79.23%. With efficiency exceeding 60%, the slag dryer shares physical characteristics with devices that meet the regulatory definition of “boiler.” *See* 35 Ill. Adm. Code 720.110. Accordingly, the Board’s consideration of this factor favors designating the slag dryer as a boiler.

Use of Exported Energy (35 Ill. Adm. Code 720.132(d))

Lafarge contends that the slag dryer uses exported energy in a manner consistent with the Board’s definition of a boiler. Lafarge notes that the definition of “boiler” specifies “[t]he unit must export and realize at least 75 percent of the recovered energy, calculated on an annual basis. In this calculation, no credit may be given for recovered heat used internally in the same unit.” Am. Pet. at 35-36; 35 Ill. Adm. Code 720.110. Lafarge states that “[i]nternal use of the recovered heat only occurs during preheating every time the system is started” and that “preheating hours account for 1.5% of the total operating hours in a year.” Am. Pet. at 36. Lafarge therefore concludes that, “[w]ith the loss of 1.5 percent of the fuel heat input due to preheating the dryer, the annual energy recovery is estimated to be 79.23%.” *Id.*

The record in this proceeding demonstrates that Lafarge’s slag dryer exports and realizes at least 75% of the recovered energy, calculated on an annual basis. In this regard, it shares physical characteristics with devices that meet the regulatory definition of “boiler.” *See* 35 Ill. Adm. Code 720.110. Accordingly, the Board’s consideration of this factor favors designating the slag dryer as a boiler.

Use as “Boiler” (35 Ill. Adm. Code 720.132(e))

Lafarge argues that the slag dryer is functionally equivalent to a boiler. Lafarge states that “[d]irect-fired dryers and process heaters are widely used in the production of cement and other non-metallic mineral products.” Am. Pet. at 36. Lafarge notes that it operates a large Portland cement manufacturing plant near Alpena, Michigan. Am. Pet. at 38. That plant has permission from the Michigan Department of Environmental Quality (DEQ) to use off-specification used oil as fuel in its raw grind dryers. *Id.* Lafarge states approval by the DEQ was based on a demonstration that the grind dryers satisfied the physical boiler criteria established by

USEPA and adopted by both Illinois and Michigan, making use of used oil fuel in the dryer a legitimate use for energy recovery.” *Id.*; see Am. Pet., Exh. D (DEQ correspondence).

Lafarge maintains that the slag dryers in Chicago and Alpena are virtually identical combustion sources with respect to the physical criteria contained in the regulatory definition of “boiler,” including integral design, combustion efficiency, and energy recovery. Am. Pet. at 38-39. Lafarge suggest that DEQ’s determination that the Alpena dryer has the physical characteristics of a boiler is persuasive evidence that the Chicago dryer is the type of combustion source “in common and customary use as a ‘boiler’ functioning primarily to produce steam, heated fluids, or heated gases.” Am. Pet. at 39, citing 720 Ill. Adm. Code 720.132(e). Lafarge further argues that, if the Board grants a boiler designation in this case, that result would be consistent with the findings of other environmental regulatory agencies. Am. Pet. at 39.

The record in this proceeding shows that Lafarge’s slag dryer is commonly and customarily used as a boiler functioning primarily to produce steam, heated fluids, or heated gases. Accordingly, the Board’s consideration of this factor favors designating the slag dryer as a boiler.

Other Relevant Factors (35 Ill. Adm. Code 720.132(f))

Lafarge states that federal used oil regulations specify both procedures and criteria for making a case-by-case determination that a particular combustion device such as its slag dryer should be considered a “boiler” for the purpose of using off-specification used oil fuel. Am. Pet. at 39, citing 40 C.F.R. 260.32 (criteria), 40 C.F.R. 260.33 (procedures). Lafarge notes that the Board “has completed ‘identical-in-substance’ rulemakings to adopt these federal RCRA regulations as the Illinois regulations applicable to the combustion of off-specification used oil in boilers and similar combustion devices.” Am. Pet. at 39; see RCRA Update, USEPA Regulations (April 24, 1984 through June 30, 1985), R85-22 (Dec. 20, 1985).

Lafarge notes that, in the preamble accompanying publication of the rules in the *Federal Register*, USEPA “explained the scope and discussed application of the rules to specific fact patterns.” Am. Pet. at 39. Lafarge urges that “the justifications set forth by USEPA to explain and interpret the criteria for making ‘case-by-case’ boiler determinations can and should be relied upon by the Board.” Am. Pet. at 40. Specifically, USEPA in that preamble elaborated on four factors that distinguish industrial boilers from non-industrial boilers for the purpose of allowing the burning of off-specification used oil for fuel. *Id.*, citing 50 Fed. Reg. 49164. First, because industrial boilers are less numerous and are located in less populated areas, those sources pose less risk of exposing individuals to hazardous emissions from burning off-specification used oil fuels.” Am. Pet. at 40-41. Second, industrial boilers are more likely to be operated by trained personnel. *Id.* Third, industrial boilers are more likely to be “equipped with combustion controls sophisticated enough to maintain peak combustion efficiency when burning fuels the unit is not designed to burn.” Am. Pet. at 40. Finally, “many industrial furnaces and some boilers are equipped with particulate control equipment that may adequately control emissions from metal-bearing waste fuels. Am. Pet. at 40-41, citing 50 Fed. Reg. 49182.

Addressing those factors, Lafarge first notes that its plant "is located in a heavily industrialized area of Cook County that is remote from any residential development." Am. Pet. at 41; *see* Am. Pet., Exh. B (USEPA map of vicinity of plant). Second, Lafarge states that "[t]he Grinding Plant and the drying system, in particular, is operated by trained personnel." Am. Pet. at 41. Third, Lafarge notes that "[t]he slag dryer is equipped with [] state-of-the-art, efficient combustors and operating controls to maximize complete combustion of the fuels." *Id.* Finally, Lafarge states that the dryer incorporates a fabric filter baghouse particulate control system with a typical capture and removal efficiency greater than 99.9%. Am. Pet. at 42. Lafarge concludes that, in addition to satisfying physical criteria established by the Board, its dryer also satisfies non-physical criteria that justify combustion of off-specification used oil. *Id.*

The record in this proceeding demonstrates that Lafarge's slag dryer generally satisfies these non-physical criteria. Accordingly, the Board's consideration of this factor favors designating the slag dryer as a boiler.

AGENCY AMENDED RECOMMENDATION AND BOARD ANALYSIS

In its amended recommendation, the Agency recommended that the Board grant Lafarge's petition provided that Lafarge addresses issues relating to the need for additional air pollution control devices or the modification of existing equipment and to environmental impacts. Am. Rec. at 1, 3-4; *see* Am. Pet. at 16-26.

As in its original petition (Pet. at 12-13), Lafarge in its amended petition proposed specific language "for a Board order that would approve the requested case-by-case boiler determination." Am. Pet. at 17-18. Lafarge notes that the Board asked whether the use of off-specification used oil in the slag dryer would require additional air pollution control devices or any modification of existing equipment. Am. Pet. at 18. In the event that additional devices or modifications are necessary, the Board also sought cost information. *Id.*

Lafarge does not expect that it will need to add new air pollution control devices or modify existing equipment. Lafarge stresses that "[t]he slag dryer is equipped with a modern, high-efficiency fabric filter baghouse particulate control system to minimize the release of particulate matter and other air contaminants in the exhaust gases." Am. Pet. at 19. Lafarge reports that systems of this kind typically achieve capture and removal efficiency of more than 99.9%. *Id.* Lafarge further reports that the dried slag drawn into exhaust gases and captured in the baghouse is returned to the production process. *Id.* "Consequently, there exists a strong economic incentive to operate the fabric filter baghouse at maximum removal efficiency." *Id.*

In addition, Lafarge "has estimated the potential particulate emissions from utilizing up to 500,000 gallons of off-specification used oil as a supplemental fuel in the slag dryer." Am. Pet. at 19. While Lafarge is allowed to emit 6.70 tons per year of particulate matter under its current Lifetime Operating Permit, "maximum potential PM emissions resulting from combustion of off-specification used oil are predicted at 0.03 tons/year." *Id.*; Am. Pet., Exh. F. Also, while Lafarge is allowed to emit 3.05 tons per year of PM₁₀, "maximum potential PM₁₀ emissions resulting from combustion of off-specification used oil are predicted at 0.02 tons/year." Am. Pet. at 19; Am. Pet., Exh. F. Based on these predictions, Lafarge concludes that

neither additional pollution control equipment nor modification of existing equipment is required to control emission resulting from the use of off-specification used oil in the slag dryer. Am. Pet. at 19-20. Furthermore, Lafarge notes that the use of off-specification used oil would likely be considered a "change in the method of operation," which has to be approved by the Agency through its permitting process. Am. Pet. at 20, citing 35 Ill. Adm. Code 201.

The Agency appears to harbor some doubt about Lafarge's statements on this issue. In its amended recommendation, the Agency noted Lafarge's "belief that the combustion of off-specification used oil as a supplemental fuel in the slag dryer will not require additional pollution control equipment." Am. Rec. at 3, citing Am. Pet. at 20. However, the Agency also noted Lafarge's claim that specification used oil did not generate savings sufficient to justify the investment required to burn used oil but that use of less-expensive off-specification used oil would justify that investment. Am. Rec. at 3, citing Am. Pet. at 14. The Agency believes that, taken together, these claims suggest that burning used oil would require new or modified pollution control equipment. Am. Rec. at 3. In addition, the Agency notes that Lafarge does not provide costs of using natural gas in the slag dryer and states that "[t]his information could be useful in analyzing the equipment issue." *Id.*

In its response to the amended recommendation, Lafarge addresses the Agency's query whether there may be inconsistency between Lafarge's statement regarding the adequacy of existing pollution control equipment and its statement regarding investments needed to burn used oil in the slag dryer. Lafarge notes that the Plant "is designed and permitted to utilize natural gas as the sole fuel for the slag drying system." Resp. at 4. If the Board grants its requested relief, Lafarge states that physical improvements will be necessary to accommodate the burning of used oil as an alternate fuel. *See* Resp. at 5. Lafarge further states that the investment referred to in its amended petition encompasses "ancillary equipment . . . needed to receive, store, convey and combust the supplemental used oil fuel." Resp. at 5. Accordingly, Lafarge's projected costs of using off-specification used oil "do not include new pollution control equipment or modifications to the existing control equipment." *Id.* Lafarge states that it "continues to believe that no modification to the existing baghouse control equipment will be required to further control any non-gaseous particulate emissions." Resp. at 3-4. Lafarge further states that it "continues to believe that no additional pollution control equipment will be required to control emissions from the combustion of off-specification used oil as supplemental fuel in the slag dryer." *Id.* at 4.

Also in its amended recommendation, the Agency stated that information regarding the cost of burning natural gas in the slag dryer "could be useful in analyzing the equipment issue here." Am. Rec. at 3. In its response to the amended recommendation, Lafarge characterizes its natural gas prices and contract terms as "extremely sensitive information the release of which could jeopardize Petitioner's profitability and damage existing contractual relationships with suppliers and customers. Resp. at 5; *see* Am. Rec. at 3. Because Lafarge argues that the Agency has not identified any substantive criteria that this information would satisfy and that the Agency states only that the data "could be useful" (Am. Rec. at 3), Lafarge "respectfully declines" to submit that data "[u]nless absolutely necessary to secure the relief requested from the Board." Resp. at 5. If the Board considers that information necessary, Lafarge states it will request that it be treated as proprietary information under the Board's procedural rules. Resp. at 5-6; *see* 35 Ill. Adm. Code 130.100 *et seq.*

The Board finds that Lafarge's response has satisfactorily addressed any apparent inconsistency between its statements regarding the sufficiency of its existing pollution control equipment and the need for investment in the slag dryer. *See Resp.* at 3-6. Accordingly, the Board cannot conclude that there remains any genuinely contested issue regarding equipment. Thus, the Board need not and does not determine whether those natural gas price data qualify for protection as trade secrets or other non-disclosable information. *See* 35 Ill. Adm. Code 130.100 *et seq.*

In its amended recommendation, the Agency also stated that Lafarge's "various references to sulfur dioxide emissions do not appear to be consistent." *Am. Rec.* at 4. Specifically, the Agency noted that Lafarge has had referred both to a "negligible" increase in those emissions and to an increase from 1.23 tons per year to 37.13 tons per year. *Id.* at 3-4, citing *Am. Pet.* at 17, 24.

Generally, Lafarge argues that any negative environmental impact of burning off-specification used oil would be balanced by the environmental benefit. Specifically, Lafarge states that the increase in SO₂ emissions will be offset by the reduced use of raw materials and the reuse of blast furnace slag. *See Am. Pet.* at 23-25.

Because the Agency responded that Lafarge's slag dryer does not satisfy the regulatory definition of a boiler, Lafarge states the dryer does not now use off-specification used oil as fuel. *Am. Pet.* at 20-21. Lafarge states that designating the dryer as a boiler and allowing the use of off-specification used oil as fuel would have only one consequence: "a change in the air pollutant emissions from the slag dryer." *Am. Pet.* at 21.

Without the requested boiler designation, the dryer uses natural gas as its primary fuel, and emissions from the combustion process are authorized under an Agency permit. *Am. Pet.* at 21; *see Am. Pet., Exh. G* (Lifetime Operating Permit 98010053, issued June 25, 2004). Lafarge states that it complies with permit limits through "full and complete combustion of the fuel and operation of a high-efficiency fabric filter baghouse system." *Am. Pet.* at 21. Lafarge determined the effect on emissions of using off-specification used oil in its dryer. *Am. Pet., Exh. F.* Assuming the use of 500,000 gallons, "Lafarge estimates that there will be no increases in any of the permitted emissions other than a slight increase in the emissions of sulfur dioxide (SO₂), as compared to current emissions from combustion of natural gas." *Am. Pet.* at 22. Lafarge's exhibit shows that combustion of off-specification used oil potentially results in emissions of 37.13 tons per year of SO₂, which exceeds the allowable dryer emissions of 1.23 tons per year (*Am. Pet., Exh. G*) and also exceeds the 0.59 tons per year reported for 2004 (*Am. Pet., Exh. E*). Lafarge notes that use of off-specification used oil will receive review and approval by the Agency and that the Agency may require issuance of a construction permit, a modified operating permit, or both. *Am. Pet.* at 24. Lafarge argues that "[t]he permitting process would ensure that all emissions associated with combustion of used oil fuel would be in full compliance with all applicable regulatory requirements and environmental standards."

In its amended recommendation, the Agency notes that the amended petition "indicates that a *negligible* increase in sulfur dioxide emissions is the only emissions change expected from

the utilization of off-specification used oil.” Am. Rec. at 3, citing Am. Pet. at 5 (emphasis added). The Agency also notes that the amended petition states that emissions of sulfur dioxide resulting from the combustion of off-specification used oil would be 37.13 tons per year, which exceeds the maximum emission allowance of 1.23 tons per year. Am. Rec. at 3-4, citing Am. Pet. at 24. The Agency states that these statements “do not appear to be consistent and should be clarified by Petitioner.” Am. Rec. at 4.

In response, Lafarge acknowledged that the term “‘insignificant’ would have been more accurate to characterize the expected emissions increase.” Resp. at 7. Specifically, Lafarge argues that sulfur dioxide emission would not be “significant” as that term is employed in the Board’s air permitting regulations. *Id.*; see 35 Ill. Adm. Code 203.209(a)(3) (threshold of 40 tons per year). Lafarge argues that its potential annual increase falls short of that threshold. See Resp. at 7. Lafarge “reaffirms the accuracy of the emissions estimates” it provided to the Board in its amended petition. Resp. at 7; see Am. Pet., Exh. F. Also, Lafarge emphasizes that, with the exception of sulfur dioxide, “[a]ll air emissions associated with combustion of off-specification used oil fuel would be less than the allowable emissions under the current Lifetime Operating Permit.” Resp. at 7-8; see Am. Pet., Exh. F. Lafarge stresses that it has repeatedly acknowledged that the proposal to burn used oil in the slag dryer will be reviewed and approved by the Agency through the issuance of a construction permit and modification of the existing operating permit. Resp. at 8; see Am. Pet., Exh. G (revised permit issued June 25, 2004).

Addressing qualitative factors, Lafarge states that its “proposal to utilize off-specification used oil fuel in the slag drying process provides significant environmental benefits by recycling and reclaiming the thermal energy from the waste oils that are generated from motor vehicles, refineries and numerous industrial processes.” Am. Pet. at 24. Lafarge states that “it takes 42 gallons of crude oil, but only one gallon of used oil, to produce two and a half quarts of new, high-quality lubricating oil.” *Id.* Lafarge also states that refining crude oil to lubricant quality requires three times the energy needed to refine used oil. *Id.* (citing USEPA Office of Solid Waste). In addition, Lafarge stresses that the use of used oil as fuel conserves natural gas. Am. Pet. at 25. Lafarge also emphasizes the indirect environmental benefit of its operations. Because its NewCem product uses blast furnace slag, its production “reduces the amount of virgin raw materials and energy that otherwise would be consumed in manufacturing Portland cement from natural raw materials.” *Id.*

In response to the Board’s request for more information on the issue, Lafarge described “the nature and source of the used oil that is likely to be available for use as a supplemental fuel for the slag dryer.” Am. Pet. at 25; see Am. Pet., Exh. H. That description, prepared by Systech Environmental Corporation, a wholly owned subsidiary of Lafarge, also summarized the quality control procedures Lafarge would institute. Am. Pet. at 25. Lafarge expects that Systech would serve as “principal contractor for identifying and qualifying used oil suppliers and making arrangements for delivery of used oil fuels to the Grinding Plant by pre-qualified suppliers.” Am. Pet. at 25-26.

Lafarge reports that it may receive used oil directly from generators that might include automotive manufacturers; steel mills, oil refineries, machine tool and die makers, automotive oil changers, and various companies with large transportation fleets. Am. Pet., Exh. H. These

entities typically generate used lubricating oil, machine oil, and motor oil suitable for energy recovery. *Id.* Lafarge also reports that it may receive used oil indirectly from processors or marketers of used oil. *Id.* These processors may produce specification or off-specification used oil, and they may employ various processes to achieve specifications including distillation, filtration, decanting, and blending. *Id.*

Lafarge characterizes used oil management as a two-step process. First, Lafarge will conduct “qualification of used oil streams and verification prior to acceptance at the plant.” Am. Pet., Exh. H. Prospective used oil suppliers will complete a profile form providing specified information about their used oil stream and certifying compliance with applicable used oil regulations. *Id.* Prospective suppliers may also be asked to provide a sample for testing. *Id.* Second, Lafarge will conduct verification before accepting used oil arriving at its Plant. *Id.* After verifying that a shipment of used oil has been pre-qualified, Lafarge will take a representative sample. One portion of that sample will be analyzed for PCBs and another portion will be retained for a regular analysis of a composite sample. *Id.* Lafarge submitted to the Board a table showing its analytical methods and the frequency of its analysis for the parameters to be measured in the various samples. *Id.* “Any load of used oil that has been mixed with hazardous waste or is determined to be contaminated with TSCA [Toxic Substances Control Act of 1976]-regulated PCB will be rejected and returned to the used oil customer.” *Id.* Finally, Lafarge states that used oil stored at the Plant will be in “approved above ground storage tanks with secondary containment” and that personnel will oversee off-loading of used oil and ensure the accurate completion of paperwork. *Id.*

In this proceeding, the Board determines on a case-by-case basis whether Lafarge’s slag dryer is a “boiler” even though it does not otherwise meet the regulatory definition of that term. 35 Ill. Adm. Code 720.132; *see* 35 Ill. Adm. Code 720.110. The Board makes that determination in its conclusion and order below. The Board notes that the Act allocates permitting authority to the Agency (*see* 415 ILCS 5/4(g, h) (2004)), including the authority to ensure that emissions from the slag dryer comply with all applicable requirements.

CONCLUSION

For the reasons described above, the Board finds that Lafarge has provided sufficient justification under section 720.132 (35 Ill. Adm. Code 720.132) and determines that the slag dryer at its South Chicago Slag Grinding Plant is a “boiler by designation” under section 720.110 (35 Ill. Adm. Code 720.110). This determination allows Lafarge to use the slag dryer for combustion of off-specification used oil for energy recovery, in compliance with 35 Ill. Adm. Code 739.161 and subject to compliance with all other applicable federal and state permits, standards, and requirements and any modifications thereto.

This opinion constitutes the Board’s findings of fact and conclusions of law.

ORDER

1. The Board finds that Lafarge has provided sufficient justification under 35 Ill. Adm. Code 720.132 and determines that the slag dryer operated by Lafarge at

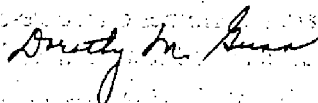
its South Chicago Slag Grinding Plant located at 2150 East 130th Street in Chicago is a "boiler by designation" under 35 Ill. Adm. Code 720.110.

2. As a "boiler by designation," the slag dryer at Lafarge's South Chicago Slag Grinding Plant can use off-specification used oil for energy recovery in compliance with 35 Ill. Adm. Code 739.161 and subject to compliance with all other applicable federal and state permits, standards, and requirements and any subsequent modifications thereto.

IT IS SO ORDERED.

Section 41(a) of the Environmental Protection Act provides that final Board orders may be appealed directly to the Illinois Appellate Court within 35 days after the Board serves the order. 415 ILCS 5/41(a) (2004); *see also* 35 Ill. Adm. Code 101.300(d)(2), 101.906, 102.706. Illinois Supreme Court Rule 335 establishes filing requirements that apply when the Illinois Appellate Court, by statute, directly reviews administrative orders. 172 Ill. 2d R. 335. The Board's procedural rules provide that motions for the Board to reconsider or modify its final orders may be filed with the Board within 35 days after the order is received. 35 Ill. Adm. Code 101.520; *see also* 35 Ill. Adm. Code 101.902, 102.700, 102.702.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on April 20, 2006, by a vote of 4-0.



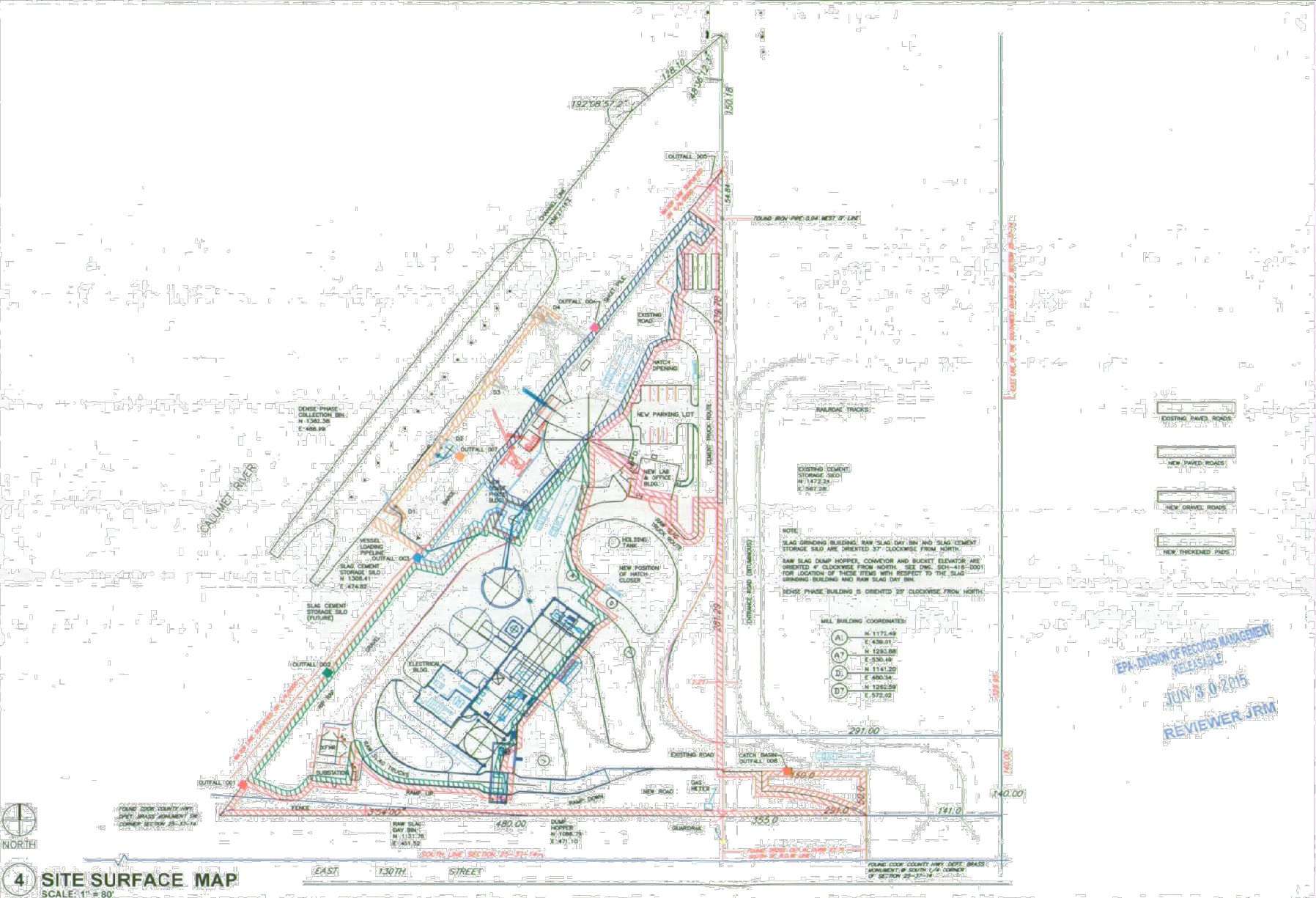
Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

LAFARGE CORPORATION
SITE SURFACE MAP
 SOUTH CHICAGO FACILITY
 CHICAGO, ILLINOIS

EPA DIVISION OF RECORDS MANAGEMENT
 RECEIVABLE
 JUN 3 0 2015
 REVIEWER JRM

Approved By: S. CRANLEY
 Date Approved: 3/20/2006
 Date Drawn: 3/16/2006
 Drawn by: Ralph Packard

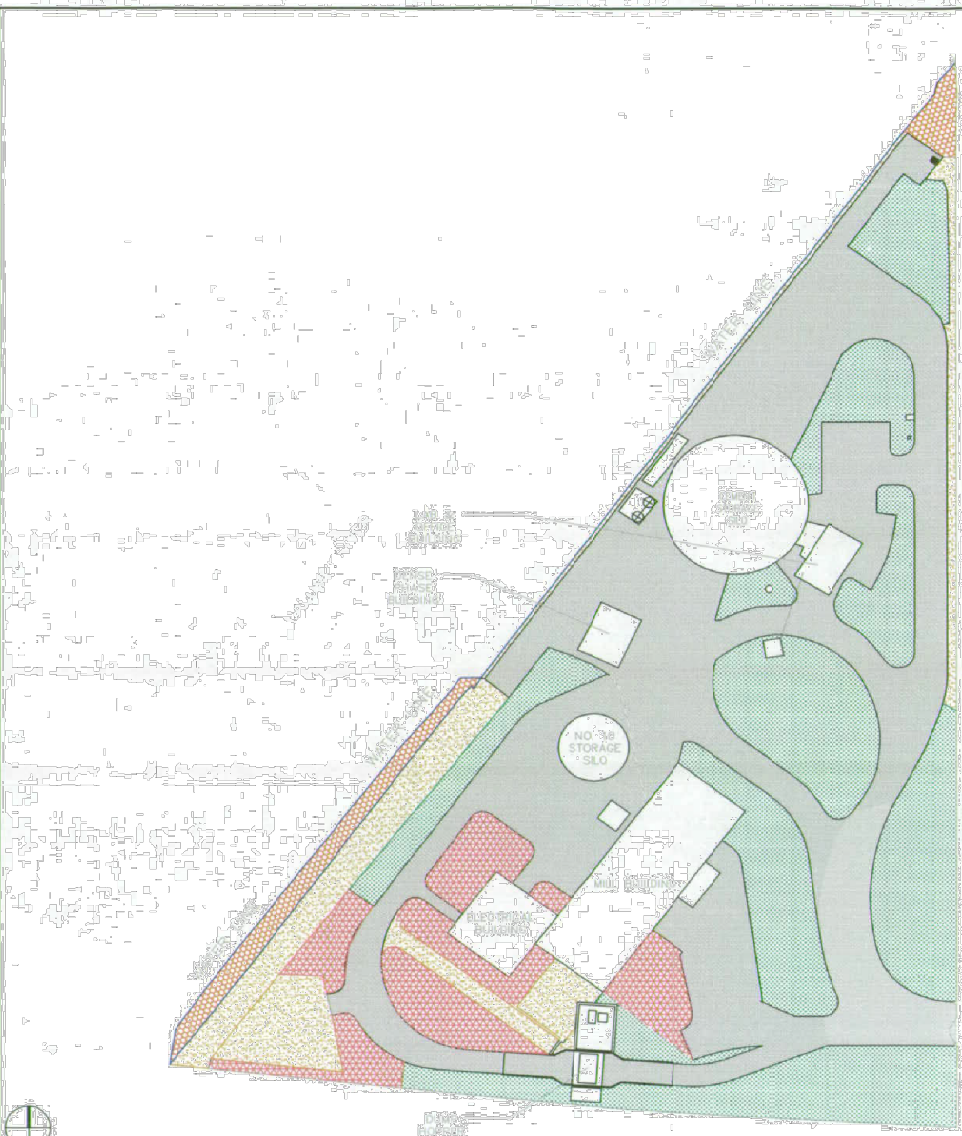
Figure 4 of 4









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LAFARGE CORPORATION
SITE SURFACE MAP
 SOUTH CHICAGO FACILITY
 CHICAGO, ILLINOIS



LEGEND

-  GRASSED AREA
-  GRAVEL
-  RIP RAP
-  PAVED AREAS
-  SLAG COVERED AREA



4 SITE SURFACE MAP
 SCALE: 1" = 30'

Approved By:	Figure
S. CRANLEY	4
Date Approved:	
3/20/2006	
Date Drawn:	
3/16/2006	
Drawn By:	
Ralph Packard	

From: <Gil.Peterson@lafarge-na.com>
To: <john.blazis@illinois.gov>
Date: Thursday, December 07, 2006 1:48:32 PM
Subject: Emission Calcs

(See attached file: slag dryer emissions upd Sep 06.xls)

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Lafarge - South Chicago, Used Oil in Slag Grinding Calculations

Table 1. Input Values

Parameter	Value
Raw Grind	
Actual Gas Use - 2004-05 Avg. (10 ⁹ SCF/yr)	125,000
Actual Heat Input (MMBtu/yr)	120,500
Oil Use at 100% NG Replacement (1000 gal/yr)	954,953
Oil Use Target for Permit (1000 gal/yr)	1,000,000
Oil Use at Burner Capacity, 8760 hr/yr (1000 gal/yr)	3,471,116
Raw Grind Heat Capacity (MMBtu/hr)	50
Raw Grind Gas Capacity (10 ⁶ SCF/hr)	0.0519
Natural Gas Heat Content (Btu/scf)	964
Raw Grind Oil Capacity (10 ³ gal/hr)	0.3962
Used Oil	
Heat Content (Btu/lb)	17,000
Density (g/ml)	0.89
Used Oil Heat Content (Btu/gal)	126,184
Oil Sulfur Content (%)	1

Table 2. Actual Emissions from Dryer Natural Gas Use

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Actual Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ⁶ scf)	Emission Factor Reference			
NOx		100	AP-42, Table 1.4-1	0	6.25	5.19
CO		84	AP-42, Table 1.4-1	0	5.25	4.36
Pb		0.0005	AP-42, Table 1.4-2	99	3.13E-07	2.59E-07
PM total/PM ₁₀		7.6	AP-42, Table 1.4-2	99	4.75E-03	3.94E-03
SO ₂		0.6	AP-42, Table 1.4-2	0	3.75E-02	3.11E-02
VOC		5.5	AP-42, Table 1.4-2	0	3.44E-01	2.85E-01

x 71.2%

Table 3. Potential Emissions from Dryer Oil Use (with 1 MM gal/yr limit)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	27.50	21.79
CO		5	AP-42, Table 1.3-1	0	2.50	1.98
Pb		1.51E-03	Systech Qual. Analysis	0	7.55E-04	5.98E-04
PM total		11.5	AP-42, Table 1.3-1&2	99	0.06	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5	99	0.05	0.04
SO ₂		148	Stoichiometry (1% S, 7.4 lb/gal)	0	74.00	58.64
VOC		1.28	AP-42, Table 1.3-3	0	0.64	0.51

28% Time

Table 4. Potential Emissions from Dryer Oil Use (assuming 8760hr/yr on oil)

Pollutant	CAS No.	Uncontrolled Emission		Control Efficiency (%)	Potential Emissions (tpy)	Maximum Emissions (lb/hr)
		Factor (lb/10 ³ gal)	Emission Factor Reference			
NOx		55	AP-42, Table 1.3-1	0	95.46	21.79
CO		5	AP-42, Table 1.3-1	0	8.68	1.98
Pb		1.51E-03	Systech Qual. Analysis	0	2.62E-03	5.98E-04
PM total		11.5	AP-42, Table 1.3-1&2	99	0.20	0.05
PM ₁₀		86% of PM	AP-42, Table 1.3-5	99	0.17	0.04
SO ₂		148	Stoichiometry (1% S, 7.4 lb/gal)	0	256.86	58.64
VOC		1.28	AP-42, Table 1.3-3	0	2.22	0.51