From:
 Pearson, Joseph

 To:
 Sager, John E - DNR

Cc: Lynette M. Carney (LCarney@barr.com)

Subject: RE: Request for Updates BRRTS ID 02-16-581317 and 02-16-591050

Date: Friday, October 6, 2023 9:21:07 AM

Attachments: <u>image007.png</u>

Platformer Concrete Replacement 022823.pdf

CAUTION: This email originated from outside the organization.

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Good morning John,

The groundwater investigation associated with the April 26, 2018, fire and explosion (BRRTS ID 02-16-581317) is still underway. The PFAS well installation field work is scheduled for November 2, 2023. Sampling will likely not occur until the spring of 2024 to allow for adequate development and recovery of the well.

A copy of the Platformer Technical Memorandum was submitted to you via email on March 1, 2023. I have attached an additional copy of the Technical Memorandum for your records. We also had a follow up meeting March 13, 2023, to discuss how to formally transfer the site to the facility wide.

At this time, SRC has not submitted a site summary and fee for the Platformer or the other sites that are still pending formal transfer requests.

Please feel free to reach out with any questions or if you need anything else.

Thank you and have a great weekend!

Joe

Joseph Pearson, PG

Environmental Advisor - Remediation, Waste & Wetlands Environmental - Superior Refinery Downstream

Cell: 1.763.218.9982

Joseph.Pearson@cenovus.com

Superior, Wisconsin



From: Sager, John E - DNR < John. Sager@wisconsin.gov>

Sent: Wednesday, October 4, 2023 11:24 AM

To: Pearson, Joseph < Joseph.Pearson@cenovus.com>

Cc: Lynette M. Carney (LCarney@barr.com) <LCarney@barr.com>

Subject: Request for Updates BRRTS ID 02-16-581317 and 02-16-591050

Hi Joe,

Please send me an update of progress on the groundwater investigation associated with April 26, 2018 fire and explosion (BRRTS ID 02-16-581317). Also, please send as update of activities associated with the SRC Platformer Unit (BRRTS ID 02-16-591050). The last information I have for this site is a 1/13/23 email from Matt Turner saying Barr was retained to prepare a tech memo.

Please contact me with any questions.

Thanks.

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

John Sager

Hydrogeologist – Remediation and Redevelopment Program Wisconsin Department of Natural Resources 1701 N. 4th St.
Superior, WI 54880

Phone: (715) 919-7239 john.sager@wisconsin.gov



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Technical Memorandum

To: Joseph Pearson, Superior Refining Company, LLC

From: Lynette Carney and Kaitlin Montz
Subject: Platformer Concrete Replacement

Date: February 28, 2023 **Project:** 49161468.03 100 104 **WDNR BRRTS:** 02-16-591050

This memorandum summarizes the environmental response activities performed by Superior Refining Company LLC (SRC) following the discovery of historical petroleum impacts in the Platformer Unit at the SRC Refinery in Superior, Wisconsin (Figure 1).

Background

On December 6, 2022, SRC contractors removing concrete and replacing a catch basin encountered an apparent petroleum odor and petroleum impacted soil in the Platformer Unit (hereafter referred to as the Site; Figure 2). SRC personal did not identify an active spill in the area.

The Wisconsin Department of Natural Resources (WDNR) was notified of the historical petroleum impacts by SRC on December 7, 2022. The WDNR assigned the BRRTS Activity # 02-16-591050 to the Site. The associated WDNR *Hazardous Substance Discharge Notification Form*, copy of submitted WDNR notification form 4400-225 and site contact information is provided in Attachment A.

Field Activity Summary

On December 7, 2022, Insight Environmental (Insight) was on site to document response cleanup activities and to collect soil field screening samples from the excavation (Photo 1 and Photo 2). A soil headspace screening sample was collected from the bottom of the excavation and tested for the presence of organic vapors using a 10.6 eV photoionization detector (PID). PID readings and other evidence of petroleum impacts, such as odor, were recorded on the field sampling and screening log provided in Attachment B.

The final excavation extent was approximately 8 feet (northeast to southwest) by 10 feet (northwest to southeast) and up to 3.5 feet below ground surface (bgs) (Attachment B). Clay soil was observed in the excavation sidewalls and bottom.

Insight collected one field screening soil sample and one analytical confirmation soil sample (*S1*). The soil analytical sample was submitted to Pace Analytical (Pace) in Duluth, Minnesota for analysis of petroleum volatile organic compounds (PVOCs) and polycyclic aromatic hydrocarbons (PAHs). The analytical confirmation soil sample location is shown on Figure 2.

To: Joseph Pearson, Superior Refining Company, LLC

From: Lynette Carney and Kaitlin Montz

Subject: Platformer Concrete Replacement

Date: February 28, 2023

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The field headspace screening results for the soil sample collected from the final excavation extent resulted in a concentration of 8,289 parts per million. Laboratory results from the correlating sample collected at the final excavation extent resulted in PVOC and PAH analyte detections above the Wisconsin groundwater residual contaminant levels (RCLs) but there were not concentrations exceeding the Wisconsin Direct Contact Industrial RCLs. The analytical results are summarized in Table 1 and the Pace laboratory report is provided in Attachment C.

Upon completion of the project activities, the excavation was backfilled with clean fill and the concrete was replaced.

Receptor Survey

No direct contact risks were identified in underlying soil based on the response activities. No impacts to surface water were identified and there is no risk of future surface water impacts based on the site's location within the refinery. Laboratory results from analytical sample *S1* exceeded the Wisconsin groundwater RCLs for several analytes. Groundwater pathway at the SRC Refinery is addressed on a facility-wide basis through the established hydrogeologic performance standard approved by the WDNR. As part of this program, SRC samples the Refinery monitoring well network (shown on Figure 3) on a semiannual basis and provides the data to the WDNR. No historical petroleum impacts have been documented as part of the semiannual facility-wide groundwater monitoring activities (Figure 3) or in the closest downgradient monitoring well MW-12. In addition, there are no water supply wells located within 500 feet of the Platformer location.

The nearest enclosed structure is a slab-on-grade refinery building approximately 6-feet to the northeast. There is no risk of hazardous vapor accumulation in the structure due to the slab-on-grade construction and the clay soil conditions. SRC Refinery and contractors are also required to wear gas detector that would alert them to a potentially hazardous atmosphere.

Material Management

During the response excavation, the petroleum impacted material was transported to SRC's permitted onsite storage building for secure and temporary staging prior to arranging for offsite disposal. Approximately seven cubic yards of petroleum impacted material was subsequently disposed of at Shamrock Environmental, LLC (Shamrock) landfill in Cloquet, Minnesota under an existing facility waste profile number. The petroleum impacted material was not quantified separately from other similar materials awaiting disposal and was included in a combined load transported to the Shamrock landfill on January 4, 2023. The non-hazardous industrial waste shipping manifests from this date are included in Attachment D.

Conclusions

Evidence of historical petroleum impacts were identified during the concrete replacement project in the Platformer Unit in December 2022. No active release was identified during the work. Soil with evidence of

To: Joseph Pearson, Superior Refining Company, LLC

From: Lynette Carney and Kaitlin Montz

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petroleum impacts that was removed from the excavation was managed at a landfill. Based on results of sampling, the soil with residual historical impacts in the final excavation had PVOC and PAH analyte concentrations below the Wisconsin Direct Contact Industrial RCLs and clean backfill was used to backfill the excavation and concrete was poured over the excavation area. Based on the analytical results and concrete cover, no direct contact risk remains. No surface water impacts or vapor risks to nearby buildings was identified. In addition, the industrial land use at the facility is not expected to change and the native underlying soil in the vicinity of the historical impacts is documented to be low permeable clay material.

Although residual soil contamination exceeds the WDNR Groundwater RCLs, no nearby groundwater receptors were identified and since groundwater is handled on a facility-wide basis no nearby historical groundwater impacts have been identified. SRC believes no additional soil or groundwater investigation activities will be required and recommends that the WDNR transfer this site to the facility wide BRRTS site 16-16-559511.

Site Photographs

Photo 1 Excavation area in Platformer Unit. Photo taken on December 7, 2022, by Insight.

Photo 2 Excavation extent in Platformer Unit. Photo taken on December 7, 2022, by Insight.

Tables

Table 1 Soil Analytical Data Summary

Figures

Figure 1 Site Location
Figure 2 Site Layout
Figure 3 Receptor Survey

Attachments

Attachment A WDNR Hazardous Substance Discharge Notification Form, WDNR Notification From

4400-225, and Site Contact Information

Attachment B Site Investigation Field Sampling and Screening Log
Attachment C Pace Laboratory Report for Confirmation Soil Sample

Attachment D Material Management Documentation

To: Joseph Pearson, Superior Refining Company, LLC

From: Lynette Carney and Kaitlin Montz
Subject: Platformer Concrete Replacement

Date: February 28, 2023

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CERTIFICATION

"I, Lynette M. Carney, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code; and that, to the best of my knowledge, all of the information contained in this document is correct, and the document was prepared in compliance with all applicable requirements in Chapters NR 700 to 726, Wis. Adm. Code."

Christil any	February 28, 2023	
Lynette M. Carney, PG	Date	
Reg #: 1138		

Site Photographs



Photo 1 Excavation area in Platformer Unit. Photo taken on December 7, 2022, by Insight.



Photo 2 Excavation extent in Platformer Unit. Photo taken on December 7, 2022, by Insight.

Tables

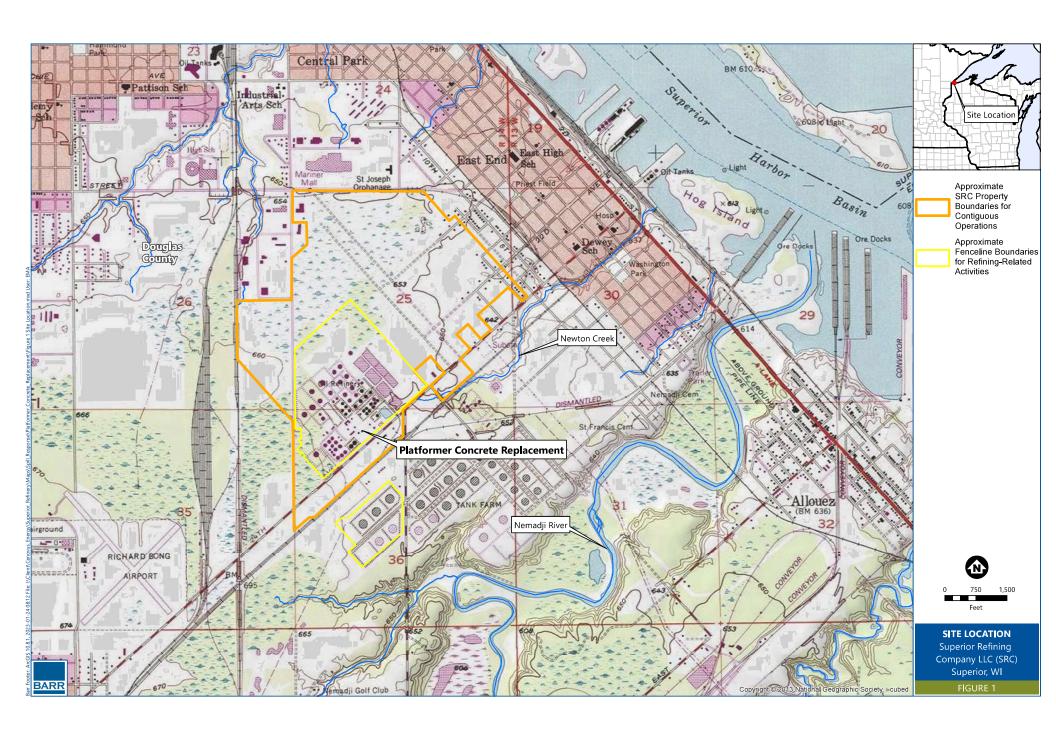
Table 1
Soil Analytical Data Summary
Superior Refining Company Platformer Concrete Replacement
Superior, WI

		Location	S 1
		Date	12/07/2022
		Wisconsin Not to	
	Wisconsin	Exceed Direct	
	Groundwater	Contact Industrial	
Parameter	RCLs, DF=2	RCLs	
Last Updated	12/01/2018	12/01/2018	
Exceedance Key	Bo l d	No Exceedances	
General Parameters			
% Moisture			22.4
Semivolatile Organic Compounds			
1-Methylnaphthalene		72,7	0.609
2-Methylnaphthalene		3010	1.32
Acenaphthene		45200	0.165
Acenaphthylene			0.0355
Anthracene	196.9492	100000	0.514
Benz(a)anthracene		20.8	0.906
Benzo(a)pyrene	0.47	2.11	0.655
Benzo(b)fluoranthene	0.4781	21.1	0.903
Benzo(g,h,i)perylene			0.356
Benzo(k)fluoranthene		211	0.281
Chrysene	0.1442	2110	0.781
Dibenz(a,h)anthracene		2.11	0.102
Fluoranthene	88.8778	30100	2.19
Fluorene	14.8299	30100	0.24
Indeno(1,2,3-cd)pyrene		21.1	0.421
Naphthalene	0.6582	24.1	0.774
Phenanthrene			2.06
Pyrene	54.5455	22600	1.83
Volatile Organic Compounds			
1,2,4-Trimethylbenzene	1.3787 (1)	219	8.45
1,3,5-Trimethylbenzene	1.3787 (1)	182	3.18
Benzene	0.0051	7.07	0.628
Ethyl benzene	1.57	35.4	2.28
Methyl tertiary butyl ether (MTBE)	0.027	282	< 0.0228 U
Toluene	1.1072	818	3.14
Xylene, total	3.96	260	11,2

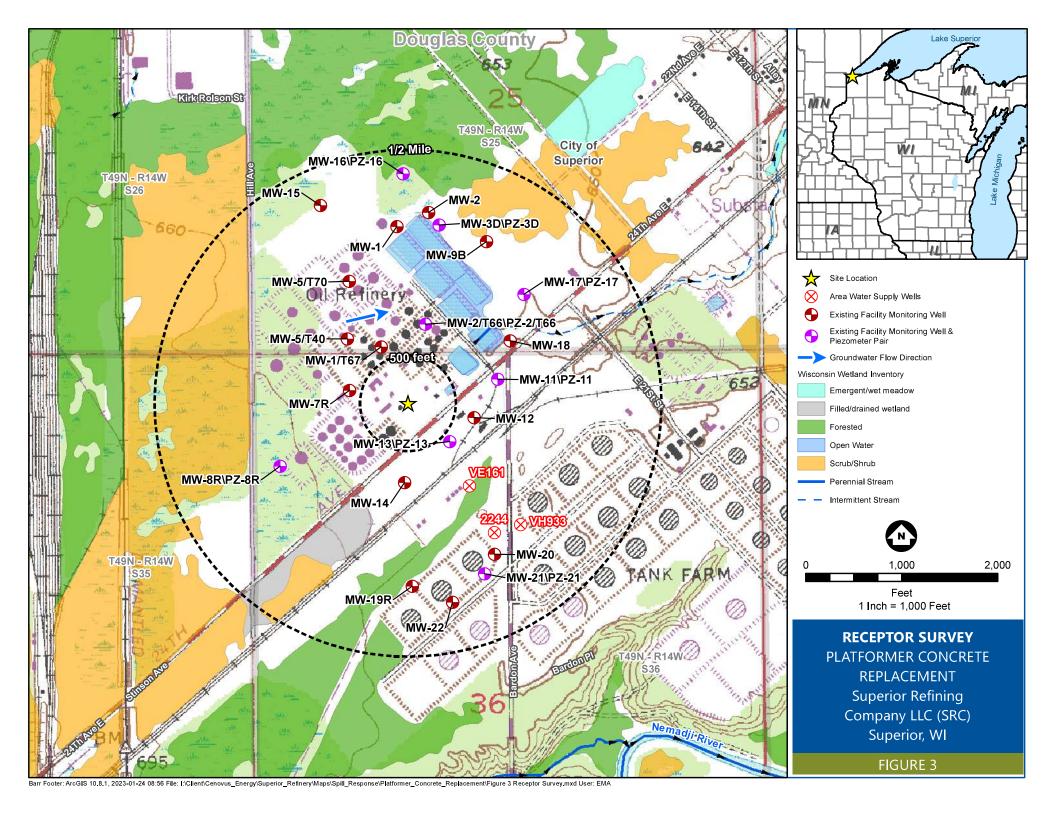
Note:

All values in mg/kg unless otherwise noted

Figures







Attachments

Attachment A

WDNR Hazardous Substance Discharge Notification Form, WDNR Notification From 4400-225, and Site Contact Information

Platformer Concrete Replacement Site and Facility Contact Information

Site Information: WDNR BRRTS Number: 02-16-591050

Facility Identification Number: 816009590

Superior Refining Company LLC

2407 Stinson Avenue Superior, Wisconsin

Douglas County, Wisconsin

NE ¼, NW ¼ of Section 36, T49N, R14W Latitude / Longitude: 46.690167 / 92.0704029 WTM91 Coordinates: X: 361690, Y: 692816

Responsible Party: Superior Refining Company LLC

Attn: Joseph Pearson, Environmental Advisor

2407 Stinson Avenue Superior, WI 54880 Phone: (763) 218-9982

Email: joseph.pearson@cenovus.com

Environmental Consultant: Barr Engineering Co.

Attn: Lynette Carney, Project Manager 325 South Lake Avenue, Suite 700

Duluth, MN 55802 Phone: (218) 529-7141 Email: lcarney@barr.com

Hazardous Substance Discharge Notification Form - NR 706.05

Superior Refining Company LLC 2407 Stinson Ave., Superior, WI 54880 Phone: (715) 398-3533 Fax: (715) 398-8209

Refinery Map Coordinates: NW1/4, NW1/4, Sect. 36, T 49N, R 14N.

1) Reporting Information	
Name: Joseph Pearson	Phone: 763-218-9982
Date: 12/06/2022	Position: Environmental Advisor
2) <u>Discharge Information</u>	
Date: <u>12/06/2022</u>	Time:1630
Amount Released: NA	Duration: NA
Material/Product: Petroleum	Response Time: NA
Specific Location: Platformer	
	entified during removal of concrete.
Cause: Historic release in refinery proc	ess unit.
	If necessary, continue on back
3) Additional Information	
Physical Characteristics (i.e. solid, liquid or	r gas): Petroleum saturated soil
01 1 1 1 1 1 1 1 1	
Chemical Properties:	
Possible Hazards:	
Possible nazards.	
Immediate Corrective Action/Clean-up:	
inimediate defreetive Action/Olean-ap.	
People/Companies Performing the Action:	Lakehead Construction
1 1 1	
Speed and Movement of Discharge(if any)	: None
Actual/Potential Impacts to Human Health((if any):
Actual/Potential Impacts to Environment(if	any):
Weather Conditions(i.e. precipitation, wind	speed and direction): 15 degrees F, Overcast, E wind
Agencies On-scene During Spill(if any):	None
Further action needed(if any):	
Amount reaching Navigable Waters:	None
Total Oil Storage Capacity of Tanks/Lines	Material was Discharged From: NA
Adequate Secondary Containment:	Yes
Steps taken to Reduce Possibility of Recur	rence: NA
Enforcement Actions(if any): None	
Effectiveness of Monitoring Equipment(if a	ny NΔ
	IIV INA

Original: Refinery Manager CC: Operations Manager, Environmental Manager

RR Program Submittal Portal Home

DNR RR forms

DNR Contacts

Lynette Carney **O**

Notice: Hazardous substance discharges must be reported immediately according to Wis. Stat. § 292.11. Non-emergency hazardous substance discharges may be reported by submitting this online form, calling the Department or visiting an office in person. Under Wis. Stat. § 292.99, the penalty for violating the reporting requirement of Wis. Stat. ch. 292 shall be no less than \$10 nor more than \$5,000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (Wis. Stat. § 19.31 - 19.39). Submitting the notification as part of a Phase 1 or Phase 2 environment assessment report is not considered immediate notification under Wis. Stat. ch. 292.

To assist the DNR in processing this Hazardous Substance Discharge Notification please include any laboratory confirmation results as part of step six of this submittal. If the results are not yet available please return to the Submittal Portal, click on "Submitted Forms - Pending Attachments" and submit the labs with with the appropriate form, as soon as possible.

Discharge Reported By: First Name * Email * Last Name * Company * Phone Number * Lynette Barr Engineering lcarney@barr.com (218) 529-7141 Carney Address 1* City* Zip* 325 S Lake Ave Duluth 55802 MN Site Information - Identify the area of the hazardous substance discharge Site Name: Identify the location of the hazardous substance discharge. For example, a business name, a public facility, a road, a waterbody, etc. * Superior Refining Company LLC (SRC) *Step 1- Enter address information Address 2407 Stinson Ave Address unknown Location Description: Describe the property location as precisely as possible. i.e. 1/4-mile NW of HWY 60 & 123, 100 ft east of Hwy 60 in the hayfield NW1/4, NW1/4, Sec 36, T49N, R14W City* State * Zip* Superior WI 54880 *Step 2- Enter the WTM or Latitude/Longitude coordinates OR click on the map below to locate where contamination was found on the property. WTM X* WTM Y * Latitude * Longitude * 361691 692814 46.69015 -92.07039 *ivifiat does the coordinate location (orange point on the map) represent? (choose one) ⑥ Contamination source (preferred) ○ Center of the parcel ○ Other (explain) Explain County * Municipality * Douglas Superior



Map Legend

O Address location from step 1
Contamination location from step 2

Responsible Parties (RP)

Responsible Party Name and/or Company: Add business and/or owner name that is responsible for cleanup according to Wis. Stat § NR 760.63(51). If more than one, click on ADD ANOTHER RP.

Is the responsible party: (choose one) An Individual A Company Company	First Name	Last Name		Phone Number *
Superior Refining Company I				(715) 398-3533
Email*	Address 1*	City*	State *	Zip*
joseph.pearson@cenovus.coi	2407 Stinson Ave	Superior	WI	54880
joseph.pearson@cenovus.coi	2407 Stinson Ave	Superior	WI	54880

ADD ANOTHER RP

Check box if the Responsible Party is unknown.

Contact Person

Check all that apply:

- Representing the Responsible Party, Business or Property Owner
- Current Property Owner

Contact Person Information:

Select one to autofill fields below or type in information directly:

- OSame as Contact Reporting Discharge
- O Same as Responsible Party
- None of the above

Company Superior Refining Company L	First Name Joseph	Last Name Pearson			
Email* joseph.pearson@cenovus.con	Address 1* 2407 Stinson Ave	City* Superior	State*	Zip* 54880	

Check all that apply

I certify that I am submitting this form for a local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23.

Please review <u>DNR publication RR-055</u> and provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using <u>DNR Form 4400-237</u>.

I certify that I am submitting this form for a lender that is claiming an exemption from state Spill Law responsibilities for the discharge being reported, per Wis. Stat. § 292.21 (1)(b) or (c).
Please review <u>DNR publication RR-508</u> and attach documentation of compliance with the statutory requirements of the liability exemption. Lenders may also request a fee-based liability clarification letter from DNR by using <u>DNR Form 4400-237</u> .
I am asserting that the hazardous substance discharge being reported is migrating from another property (off-site contamination). I understand that off-site property owners may qualify for a liability exemption per Wis. Stat. § 292.13; however, the owner is not exempt from reporting requirements per Wis. Stat. § 292.11(2). I also understand that I may be required to provide additional information to document compliance with the exemption.
Please review <u>DNR publication RR-589</u> for more information about the off-site liability exemption and rights and responsibilities of off-site owners. Off-site property owners may also request a fee-based off-site liability exemption or liability clarification letter from DNR by using <u>DNR form 4400-201</u> .
Hazardous Substance Information:
*Select the type of discharge (check all that apply):
 Aboveground Petroleum Storage Tank System Dry Cleaner Facility Underground Petroleum Storage Tank System ✓ Other - Describe
Discharge Comments
historical release in refinery process unit (Platformer)
*Contamination was discovered as a result of:
Tank System Site Assessment (TSSA) Tank Closure Assessment Date
Phase Environmental Site Assessment (ESA) Phase Environmental Site Assessment Date
Phase II Environmental Site Assessment (ESA) Phase II Environmental Site Assessment Date
Other Assessment - Describe Other Assessment Date 12/06/2022
Other Assessment Comments
Historical petroleum spill identified during removal of concrete in the Platformer Unit
Underground Petroluem Storage Tank (UST) Information Underground Storage Tank (UST) Regulation
Federally Regulated UST System Non-Federally Regulated UST System Unknown
Has a new confirmed release been verified?
○Yes ○No ○Unknown
Federal Energy Act Requirements(Section 9002(d) of the Solid Waste Disposal Act(SWDA)) For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:
* Source (select one):
Opelivery Problem Opispenser Opiping Osubmersible Turbine Pump Other (None Listed - Specify) Specify Other Source
*Cause (select one): Corrosion Onstallation Problem Overfill Physical Or Mechanical Damage Ospill Other (None Listed – Specify)
Specify Other Cause

VOC Other Comments		
Other Substance Comments		
*Impacts to the environment (check all that apply)		
Contaminated Private Well		
Contaminated Public Well		
Ground Water Contamination		
Indoor Air Contamination		
Sanitary Sewer Contamination		
Sediment Contamination		
Soil Contamination		
Soil Gas Contamination		
Storm Sewer Contamination		
Sub-Slab Vapor Contamination		
Lab Results and Documents		
*Please select one of the below:		
○ Lab results or report will be submitted upon receipt ○ Lab results or report are attached		
Labs included in other documents attached below No lab results or report are available		
Explain		
Samples will be collected as access allows. Laboratory results will be provided in a future report		
Upload File *		
Upload File * Choose file		Browse
		Browse
		Browse
Choose file		Browse
Choose file Additional documentation and request (select one):	ested (No l	
Choose file Additional documentation and request (select one): Hover over selections below for more information		Fee)
Additional documentation and request (select one): Hover over selections below for more information Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - No Letter Requestions Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - Letter requested.	d (General	Fee) liability
Choose file Additional documentation and request (select one): Hover over selections below for more information Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - No Letter Request Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - Letter requested clarification letter under Wis. Stat. s. 292.55) - Include Form 4400-237 (\$700) Submit request for No Further Action (NFA) determination under Wis. Admin. Code s. NR 708.09 - Letter requested	d (General	Fee) liability
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Choose file Additional documentation and request (select one): Hover over selections below for more information Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - No Letter Requestion Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - Letter requested clarification letter under Wis. Stat. s. 292.55) - Include Form 4400-237 (\$700) Submit request for No Further Action (NFA) determination under Wis. Admin. Code s. NR 708.09 - Letter requested 4400-237 (\$350) Submit other documentation, not listed above (No Fee) None of the above	d (General	Fee) liability
Additional documentation and request (select one): Hover over selections below for more information Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - No Letter Requestions below for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - Letter requested clarification letter under Wis. Stat. s. 292.55) - Include Form 4400-237 (\$700) Submit request for No Further Action (NFA) determination under Wis. Admin. Code s. NR 708.09 - Letter requested 4400-237 (\$350) Submit other documentation, not listed above (No Fee) None of the above Document Type Nothing selected	d (General	Fee) liability

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged or any other information not captured in this form.

Additional Information

Historical impacts to soil were discovered during a concrete replacement project in the Platformer. Soil removed as part of this work will be managed separately. Representative soil samples will be collected from the excavation prior to concrete replacement. Concrete replacement work may happen in multiple phases.

Cart

Note: To edit or delete labs or reports go back to Tab 6 - Lab results and documents

Lab or report name	File name	Fee
None of the above	NA	0
No lab results or report are available	NA	0
Total		0

If you have questions please contact:

KATHLEEN SHAFEL
North Region
kathleen.shafel@wisconsin.gov
(715) 527-0116
223 E STEINFEST RD
ANTIGO, WI, 54409



© Wisconsin Department of Natural Resources | Site requirements | Accessibility | Legal | Privacy | Employee resources

Attachment B

Site Investigation Field Sampling and Screening Log

	-					
FIFT	CAR	DIAL	ABID	CCDEERI	BIC	100
FIFT 11	SAIVIE	LING	AINIJ	SCREEN	IVICT	1 ()(7

Client: SRC Date: 12/07/2022
Location: SE Plat, W of E bldg Sampler: LCI / Insight Env

Sample Nomenclature (Location - sample type - #):

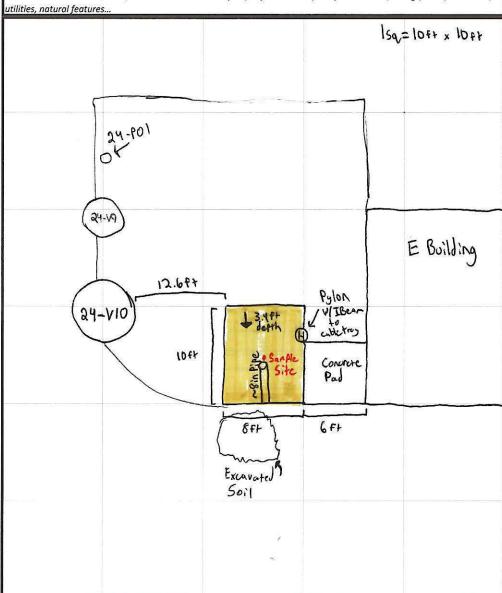
R = Removed S = Sidewall B = Bottom Stockpile = Stockpile

, early constitution and the		STATEMENT CONT.	Composition and Composition Co		otoonp.ic	December 2011	
Sam	ple ID	Depth	Time (military)	Soil Type (uscs)	Color/ Discolor	Odor/ Sheen	Headspace Reading (ppm)
Example:	Stockpile-1	4	<u>16:30</u>	<u>CL</u>	Reddish brown	Petroleum/ Rainbow	<u>275</u>
SI		3.5	13:10	CL	Brown	Petro	8289
					3		
				w/=			
							COS NALE
88-1-12							
		- 1					
***	·						
			-				
	12						
							

	Equipment:	Photoionization	detector	with	_eV bulb
--	------------	-----------------	----------	------	----------

	Calibration	Bump Test 1	Bump Test 2
Time	4:45	13:50	
Zero reading (ppm)	0.0	0.0	
Span reading (ppm)	100.1	119.4	
Background (ppm)	0.1	0.8	

Site Sketch: north arrow, scale, excavation extents & depths, impacted areas, sample locations ,borings, wells, structures,



Attachment C

Pace Laboratory Report for Confirmation Soil Sample





December 20, 2022

Jim Taraldsen Barr Engineering Company 325 S Lake Ave Duluth, MN 55802

RE: Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Hansen martha.hansen@pacelabs.com (612)607-6451

Project Manager

Mut M

Enclosures

cc: Lynette Carney, Barr Engineering Co Barr DM, Barr Engineering Accounts Payable, Barr Engineering



(612)607-1700



CERTIFICATIONS

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929

Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137 Florida Certification #: E87605* Georgia Certification #: 959 GMP+ Certification #: GMP050884 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064

New Hampshire Certification #: 2081* New Jersey Certification #: MN002 New York Certification #: 11647*

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification (A2LA) #: R-036 North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001 Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*

West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).





SAMPLE SUMMARY

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10636362001	S1	Solid	12/07/22 13:08	12/08/22 10:50



SAMPLE ANALYTE COUNT

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10636362001	S1	ASTM D2974	JL5	1	PASI-M
		EPA 8270E by SIM	JLR, JNG	20	PASI-M
		EPA 8260D	SB2	10	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



ANALYTICAL RESULTS

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

Sample: S1 Lab ID: 10636362001 Collected: 12/07/22 13:08 Received: 12/08/22 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
Dry Weight / %M by ASTM D2974	Analytical	Method: AS	ΓM D2974						
	Pace Anal	ytical Service	es - Minneapo	lis					
Percent Moisture	22.4	%	0.10	0.10	1		12/12/22 14:06		N2
8270E MSSV PAH by SIM	-		-		ion Me	thod: EPA 3546			
	Pace Anal	ytical Service	es - Minneapo	lis					
Acenaphthene	165	ug/kg	12.8	2.6	1	12/09/22 18:12	12/12/22 21:46	83-32-9	
Acenaphthylene	35.5	ug/kg	12.8	1.4	1	12/09/22 18:12	12/12/22 21:46	208-96-8	
Anthracene	514	ug/kg	12.8	1.2	1	12/09/22 18:12	12/12/22 21:46	120-12-7	
Benzo(a)anthracene	906	ug/kg	12.8	2.2	1	12/09/22 18:12	12/12/22 21:46	56-55-3	
Benzo(a)pyrene	655	ug/kg	12.8	1.4	1	12/09/22 18:12	12/12/22 21:46	50-32-8	
Benzo(b)fluoranthene	903	ug/kg	12.8	1.3	1	12/09/22 18:12	12/12/22 21:46	205-99-2	
Benzo(g,h,i)perylene	356	ug/kg	12.8	2.4	1	12/09/22 18:12	12/12/22 21:46	191-24-2	
Benzo(k)fluoranthene	281	ug/kg	12.8	1.3	1	12/09/22 18:12	12/12/22 21:46	207-08-9	
Chrysene	781	ug/kg	12.8	1.3	1	12/09/22 18:12	12/12/22 21:46	218-01-9	
Dibenz(a,h)anthracene	102	ug/kg	12.8	1.5	1	12/09/22 18:12	12/12/22 21:46	53-70-3	
Fluoranthene	2190	ug/kg	25.7	1.9	2	12/09/22 18:12	12/13/22 15:33	206-44-0	
Fluorene	240	ug/kg	12.8	1.5	1	12/09/22 18:12	12/12/22 21:46	86-73-7	
ndeno(1,2,3-cd)pyrene	421	ug/kg	12.8	1.0	1	12/09/22 18:12	12/12/22 21:46	193-39-5	
I-Methylnaphthalene	609	ug/kg	12.8	3.0	1	12/09/22 18:12	12/12/22 21:46	90-12-0	
2-Methylnaphthalene	1320	ug/kg	25.7	5.3	2	12/09/22 18:12	12/13/22 15:33	91-57-6	
Naphthalene	774	ug/kg	12.8	1.4	1	12/09/22 18:12	12/12/22 21:46	91-20-3	
Phenanthrene	2060	ug/kg	25.7	2.0	2	12/09/22 18:12	12/13/22 15:33	85-01-8	
Pyrene	1830	ug/kg	25.7	3.9	2	12/09/22 18:12	12/13/22 15:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%.	59-125		1	12/09/22 18:12	12/12/22 21:46	321-60-8	
p-Terphenyl-d14 (S)	74	%.	65-125		1	12/09/22 18:12	12/12/22 21:46	1718-51-0	
3260D MSV UST					hod: E	PA 5035/5030B			
	Pace Anal	ytical Service	es - Minneapo	lis					
Benzene	628	ug/kg	23.9	7.2	1	12/13/22 11:23	12/14/22 23:36	71-43-2	
Ethylbenzene	2280	ug/kg	59.8	10.3	1	12/13/22 11:23	12/14/22 23:36		
Methyl-tert-butyl ether	<22.8	ug/kg	59.8	22.8	1	12/13/22 11:23	12/14/22 23:36	1634-04-4	
Toluene	3140	ug/kg	59.8	22.6	1	12/13/22 11:23	12/14/22 23:36	108-88-3	
1,2,4-Trimethylbenzene	8450	ug/kg	59.8	12.5	1	12/13/22 11:23	12/14/22 23:36		
1,3,5-Trimethylbenzene	3180	ug/kg	59.8	8.1	1	12/13/22 11:23	12/14/22 23:36		
Xylene (Total)	11200	ug/kg	179	22.6	1	12/13/22 11:23	12/14/22 23:36		
Surrogates		5 5							
4-Bromofluorobenzene (S)	93	%.	75-125		1	12/13/22 11:23	12/14/22 23:36	460-00-4	
Toluene-d8 (S)	94	%.	75-125		1	12/13/22 11:23	12/14/22 23:36	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	80	%.	75-125		1	12/13/22 11:23	12/14/22 23:36	2199-69-1	



ASTM D2974

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

QC Batch: 857945

QC Batch Method: ASTM D2974 Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10636362001

SAMPLE DUPLICATE: 4534619

 Parameter
 Units
 Result Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Percent Moisture
 %
 4.1
 4.1
 1
 30 N2

Analysis Method:

Percent Moisture 76 4.1 1 30 N

SAMPLE DUPLICATE: 4534620

Date: 12/20/2022 01:03 PM

 Parameter
 Units
 30545665011 Result
 Dup Result
 Max RPD
 Max RPD
 Qualifiers

 Percent Moisture
 %
 7.2
 7.3
 1
 30 N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

QC Batch: 858253 Analysis Method: EPA 8260D
QC Batch Method: EPA 5035/5030B Analysis Description: 8260D MSV UST

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10636362001

METHOD BLANK: 4535740 Matrix: Solid

Associated Lab Samples: 10636362001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	12.1J	50.0	12/14/22 19:40	
1,3,5-Trimethylbenzene	ug/kg	<6.8	50.0	12/14/22 19:40	
Benzene	ug/kg	10.2J	20.0	12/14/22 19:40	
Ethylbenzene	ug/kg	<8.6	50.0	12/14/22 19:40	
Methyl-tert-butyl ether	ug/kg	<19.1	50.0	12/14/22 19:40	
Toluene	ug/kg	<18.9	50.0	12/14/22 19:40	
Xylene (Total)	ug/kg	<18.9	150	12/14/22 19:40	
1,2-Dichlorobenzene-d4 (S)	%.	96	75-125	12/14/22 19:40	
4-Bromofluorobenzene (S)	%.	97	75-125	12/14/22 19:40	
Toluene-d8 (S)	%.	99	75-125	12/14/22 19:40	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	890	89	63-125	
1,3,5-Trimethylbenzene	ug/kg	1000	864	86	62-125	
Benzene	ug/kg	1000	1010	101	58-126	
Ethylbenzene	ug/kg	1000	965	97	67-125	
Methyl-tert-butyl ether	ug/kg	1000	958	96	65-128	
Toluene	ug/kg	1000	962	96	57-125	
Xylene (Total)	ug/kg	3000	2780	93	64-125	
1,2-Dichlorobenzene-d4 (S)	%.			101	75-125	
4-Bromofluorobenzene (S)	%.			96	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 4535	743		4535744					•		
			MS	MSD								
	1	0636378001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/kg	6260	383	383	8700	8210	639	508	59-133	6	30	E,P6
1,3,5-Trimethylbenzene	ug/kg	2330	383	383	4270	3720	507	365	62-128	14	30	P6
Benzene	ug/kg	430	383	383	726	732	77	79	52-131	1	30	
Ethylbenzene	ug/kg	3020	383	383	3270	3340	66	83	65-125	2	30	
Methyl-tert-butyl ether	ug/kg	ND	383	383	401	409	105	107	65-128	2	30	
Toluene	ug/kg	4940	383	383	4840	4850	-25	-23	56-126	0	30	E,P6
Xylene (Total)	ug/kg	13200	1140	1140	14700	14700	125	127	63-127	0	30	ES
1,2-Dichlorobenzene-d4 (S)	%.						67	95	75-125			S0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

MATRIX SPIKE & MATRIX SF	PIKE DUPLI	CATE: 4535	743		453574	4						
	,	10636378001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
4-Bromofluorobenzene (S)	%.						116	111	75-125			
Toluene-d8 (S)	%.						107	107	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

QC Batch: 857812 Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3546 Analysis Description: 8270E Solid PAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10636362001

METHOD BLANK: 4533274 Matrix: Solid

Associated Lab Samples: 10636362001

,					
Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
	Office			Allalyzeu	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	10.0	12/20/22 10:49	
2-Methylnaphthalene	ug/kg	<2.0	10.0	12/20/22 10:49	
Acenaphthene	ug/kg	<2.0	10.0	12/20/22 10:49	
Acenaphthylene	ug/kg	<1.1	10.0	12/20/22 10:49	
Anthracene	ug/kg	< 0.92	10.0	12/20/22 10:49	
Benzo(a)anthracene	ug/kg	<1.7	10.0	12/20/22 10:49	
Benzo(a)pyrene	ug/kg	<1.1	10.0	12/20/22 10:49	
Benzo(b)fluoranthene	ug/kg	<1.0	10.0	12/20/22 10:49	
Benzo(g,h,i)perylene	ug/kg	<1.9	10.0	12/20/22 10:49	
Benzo(k)fluoranthene	ug/kg	<1.0	10.0	12/20/22 10:49	
Chrysene	ug/kg	<1.0	10.0	12/20/22 10:49	
Dibenz(a,h)anthracene	ug/kg	<1.2	10.0	12/20/22 10:49	
Fluoranthene	ug/kg	<0.72	10.0	12/20/22 10:49	
Fluorene	ug/kg	<1.2	10.0	12/20/22 10:49	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.80	10.0	12/20/22 10:49	
Naphthalene	ug/kg	<1.1	10.0	12/20/22 10:49	
Phenanthrene	ug/kg	<0.79	10.0	12/20/22 10:49	
Pyrene	ug/kg	<1.5	10.0	12/20/22 10:49	
2-Fluorobiphenyl (S)	%.	73	59-125	12/20/22 10:49	
p-Terphenyl-d14 (S)	%.	71	65-125	12/20/22 10:49	

LABORATORY CONTROL SAMPLE:	4533275					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	68.6	69	50-125	
2-Methylnaphthalene	ug/kg	100	84.5	85	55-125	
Acenaphthene	ug/kg	100	74.2	74	60-125	
Acenaphthylene	ug/kg	100	73.5	73	59-125	
Anthracene	ug/kg	100	87.9	88	62-125	
Benzo(a)anthracene	ug/kg	100	92.0	92	64-125	
Benzo(a)pyrene	ug/kg	100	89.0	89	64-125	
Benzo(b)fluoranthene	ug/kg	100	94.5	95	65-125	
Benzo(g,h,i)perylene	ug/kg	100	70.1	70	66-125	
Benzo(k)fluoranthene	ug/kg	100	83.0	83	66-125	
Chrysene	ug/kg	100	77.7	78	66-125	
Dibenz(a,h)anthracene	ug/kg	100	73.0	73	67-125	
Fluoranthene	ug/kg	100	98.7	99	65-125	
Fluorene	ug/kg	100	86.6	87	60-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	78.6	79	64-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

LABORATORY CONTROL SAMPLE:	4533275					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/kg	100	70.9	71	48-125	
Phenanthrene	ug/kg	100	89.3	89	62-125	
Pyrene	ug/kg	100	76.2	76	68-125	
2-Fluorobiphenyl (S)	%.			70	59-125	
p-Terphenyl-d14 (S)	%.			73	65-125	

MATRIX SPIKE & MATRIX S	SPIKE DUPLIC	CATE: 4533			4533277							
			MS	MSD					٥, ٥			
5 .		20263475005	Spike	Spike	MS	MSD	MS	MSD	% Rec	DDD	Max	0 1
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/kg	<0.0023 mg/kg	99.7	97.8	64.4	65.4	64	67	60-125	1	30	
2-Methylnaphthalene	ug/kg	<0.0020 mg/kg	99.7	97.8	75.4	78.7	75	80	59-125	4	30	
Acenaphthene	ug/kg	<0.0020 mg/kg	99.7	97.8	72.3	74.9	73	77	70-125	4	30	
Acenaphthylene	ug/kg	<1.1	99.7	97.8	70.0	70.6	70	72	30-150	1	30	
Anthracene	ug/kg	<0.00091 mg/kg	99.7	97.8	91.5	95.6	92	98	67-125	4	30	
Benzo(a)anthracene	ug/kg	<0.0017 mg/kg	99.7	97.8	91.8	93.1	91	94	64-125	1	30	
Benzo(a)pyrene	ug/kg	<0.0011 mg/kg	99.7	97.8	89.2	89.5	90	92	40-137	0	30	
Benzo(b)fluoranthene	ug/kg	<0.00099 mg/kg	99.7	97.8	95.0	99.6	95	102	30-150	5	30	
Benzo(g,h,i)perylene	ug/kg	<0.0019 mg/kg	99.7	97.8	76.1	75.9	76	78	69-125	0	30	
Benzo(k)fluoranthene	ug/kg	<0.0010 mg/kg	99.7	97.8	82.1	78.3	82	80	48-133	5	30	
Chrysene	ug/kg	<0.0010 mg/kg	99.7	97.8	81.6	81.9	81	83	62-125	0	30	
Dibenz(a,h)anthracene	ug/kg	<0.0012 mg/kg	99.7	97.8	78.7	79.4	79	81	57-125	1	30	
Fluoranthene	ug/kg	<0.00071 mg/kg	99.7	97.8	106	107	106	108	60-125	0	30	
Fluorene	ug/kg	<0.0011 mg/kg	99.7	97.8	85.2	86.2	85	88	53-125	1		
Indeno(1,2,3-cd)pyrene	ug/kg	<0.00079 mg/kg	99.7	97.8	87.7	87.0	88	89	49-130	1		
Naphthalene	ug/kg	<0.0011 mg/kg	99.7	97.8	63.4	67.4	63	68	46-125	6		
Phenanthrene	ug/kg	<0.00078 mg/kg	99.7	97.8	97.1	99.3	97	102	61-125	2		
Pyrene	ug/kg	<0.0015 mg/kg	99.7	97.8	74.4	76.1	74	77	58-125	2	30	
2-Fluorobiphenyl (S)	%.						32	34	59-125			S0
p-Terphenyl-d14 (S)	%.						41	41	65-125			S0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 12/20/2022 01:03 PM

E .	nalyte concentration exceeded the calibration range. The reported result is estimated.

- ES The reported result is estimated because one or more of the constituent results are qualified as such.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A

complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the

spike level.

S0 Surrogate recovery outside laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161468.03 100 103 SRC Platfo

Pace Project No.: 10636362

Date: 12/20/2022 01:03 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10636362001	S1	ASTM D2974	857945		
10636362001	S 1	EPA 3546	857812	EPA 8270E by SIM	858007
10636362001	S1	EPA 5035/5030B	858253	EPA 8260D	858770

WO#:10636362

CHAIN-OF-CUSTODY / Analytical Request I. 10535352

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete.

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	*Important Note: By coming this form				L		JIGNATUR	E of SAMPL	.ck:		W	Hom	W	MV	<u> </u>		(M	M/DD/	YY):	12-1	07-6	d d		P	& z	Seal	Jam's	J

DC#_Title: ENV-FRM-MIN4-0150 v11_Sample Condition Upon Receipt (SCUR)

Effective Date: 11/16/2022

Tracking Number: Custody Seal on Cooler/Box Present? Packing Material: Bubble Wrap Packing	Courier: FedEx UPS USPS Client Pace SpeeDee Commercial	0	Project Exception	RM GL:	0#:10636362 : MKH Due Dave: 12/22/22 LENT: BARR
Packing Material: Dubble Wrap Subble Bags None Other Tamp Blank? Ves No None None Tamp Blank? Ves No None N	Tracking Number:				
Packing Material: Dubble Wrap Subble Bags None Other Tamp Blank? Ves No None None Tamp Blank? Ves No None N	Custody Seal on Cooler/Box Present? Yes XNo	 Seals Intaci	* ? 🗆 Ye	S DO NO	Riological Tissue Frozen? Vos No MN/A
The properties Tit (1945) Tit (1945) Tit (1945) Tit (1975)					
Correction Factor: Cooler temp Read w/Temp Blank: C	Thermometer: T1 (0461) T2 (1336) T3 (04	59)	(0254) [(0727) [T5 (017)	8) Type of Ice: Wet Blue Dry None 52/1710 Melted
Content Content Cooler temp Read w/Temp Blank: C Average Corrected Temp (no temp blank only): Correction Factor: Did samples of school N/A, water sample/other: Cooler Temp Corrected w/temp blank: C Cooler Temp Corrected Temp (not compliante in a quarantine zone within the United States: Al, AR, AZ A. B., Including thavail and Puerto Rico)? Ves	Did Samples Originate in West Virginia? Yes No			Were All C	ontainer Temps Taken? Yes No N/A
Correction Factor: Cooler Temp Corrected w/Lemp blank: C See Exceptions ENV-FRM-MINH-0.142 1 Container	Temp should be above freezing to 6 °C Cooler temp Read w/	Temp Blanl			
Did samples originate in a quarantine zone within the United States: Al, AR, AZ CA, FJ, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps?)	Correction Factor: 10.1 Cooler Temp Corrected w/	temp blank	c 1.0	°C	
Did samples originate in a quarantine zone within the United States: Al, AR, AZ CA, FJ, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps?)	USDA Regulated Soil: N/A, water sample/other:	tu temmi layetireya aya yani)		Date/Initials of Person Examining Contents: 17 9 11 - 10
Location (Check one):	Did samples originate in a quarantine zone within the United Sta	ntes: AL, AR	– , AZ CA, FL Yes X N	, ,	Did samples originate from a foreign source (internationally,
Location (Check One): Duluth Minneapolis Virginia COMMENTS	If Yes to either question, fill out a Regulate	d Soil Checl	klist (ENV-	FRM-MIN4-	
Contract of Custody Relinquished? Ves	Location (Check one): Duluth Minnea	polis			
Sampler Name and/or Signature on COC? Samples Arrived Within Hold Time? Yes No A. If fecal:		X Yes	No		
Samples Arrived within Hold Time? Yes		- X			
Short Hold Time Analysis (<72 hr)? Yes No 5. Facal Collform HPC Total Collidorny/E.coll BOD/cBOD Hex Chrom Turbidity Nitrate Nitrite Orthophos Other Rush Turn Around Time Requested? Yes No 7. Correct Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace Containers Used? Yes No N/A P-ace United States No No N/A P-ace United States No No No No No No P-ace United States No No No No No No No N				N/A	
Rush Turn Around Time Requested? Rush Turn Around Time Requested? Rush Turn Around Time Requested? Rush Turn Around Time Requested? Yes No 5. Sufficient Sample Volume? Correct Containers Used? Yes No 7. Correct Containers Used? Yes No N/A 8. Yes No N/A 8. Yes No N/A 10. Its addiment visible in the dissolved container? Yes No N/A 10. Its sufficient information available to reconcile the samples to the Yes No N/A 10. See Exceptions Its ino, write ID/Date/Time of container below: COC? Matrix: Water Soil Oil Other Yes No N/A 12. Sample # All containers needing preservation are found to be in Yes No N/A 12. Sample # All containers needing preservation are found to be in Yes No N/A 12. Sample # Compliance with EPA recommendation? (Nater) and Dioxins/PFAS Yes No N/A N/		/=}			
Rush Turn Around Time Requested? Yes No 6. Sufficient Sample Volume? Ves No N/A -Pace Containers Used? -Pace Containers Used? -Pace Containers Used? -Pace Containers Used? -Pace Containers Intact? Field Filtered Volume Received for Dissolved Tests? Yes No N/A Is sufficient information available to reconcile the samples to the COC? Matrix: Water Soil Oil Other All containers needing acid/base preservation have been Yes No N/A All containers needing preservation are found to be in. Yes No N/A All containers needing preservation are found to be in. Yes No N/A All containers needing preservation are found to be in. Yes No N/A All containers needing preservation are found to be in. Yes No N/A	Short Hold Time Analysis (<72 hr)?	Yes	₩ No		BOD/cBOD Hex Chrom Turbidity Nitrate
Sufficient Sample Volume? Correct Containers Used?	Rush Turn Around Time Requested?	Yes	No		
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Field Efficent Information available to reconcile the samples to the COC? Matrix:	Containers Intact?	Yes	No		9.
Is sufficient information available to reconcile the samples to the Yes No No No No No No No N	Field Filtered Volume Received for Dissolved Tests?		No	N/A	10. Is sediment visible in the dissolved container?
Matrix: Water Soil Oil Other See Exceptions	Is sufficient information available to reconcile the samples to the			<u> </u>	
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in	COC3	/			See Exceptions
All containers needing preservation are found to be in		Yes	No	N/A	· · · · · · · · · · · · · · · · · · ·
(water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.) Headspace in Methyl Mercury Container? Yes No N/A 13. Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)? Yes No N/A 15. Trip Blanks Present? Trip Blank Custody Seals Present? Yes No N/A Pace Trip Blank Lot # (if purchased): CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible preservative preservative.	All containers needing preservation are found to be in , compliance with EPA recommendation?	Yes	□No	N/A	the state of the s
(water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.) Headspace in Methyl Mercury Container? Yes No N/A 13. Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)? Yes No N/A 14. See Exceptions ENV-FRM-MIN4-0142 3 Trip Blanks Present? Trip Blank Custody Seals Present? Yes No N/A 15. Trip Blank Custody Seals Present? Person Contacted: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of positions).	Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015	Yes	☐ No	X N/A	Positive for Residual Yes See Exceptions
Associated field and equipment blanks—verify with PM first.) Residual Chlorine O-6 Roll O-6 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-15 Strip O-15 Strip O-15 Strip O-15 Strip O-16 Roll O-6 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-14 Strip O-15 Strip O-16 Roll O-6 See Exceptions ENV-FRM-MIN4-0142 O-8 Roll O-9 R	4				Chlorine? No ENV-FRM-MIN4-0142
Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)? 3 Trip Blanks Present? Trip Blank Custody Seals Present? CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible of the North Carolina DE					
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Headspace in VOA Vials (greater than 6mm)? Yes No N/A Trip Blanks Present? Yes No N/A Trip Blank Custody Seals Present? Yes No N/A Pace Trip Blank Lot # (if purchased): CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of positions)	Extra labels present on soil VOA or WIDRO containers?	Yes			
3 Trip Blanks Present? Yes No N/A 15. Trip Blank Custody Seals Present? Yes No N/A Pace Trip Blank Lot # (if purchased): CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put of possible sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, put		, 	☐ No	⋈ N/A	
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Person Contacted: Date/Time: Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of		Yes	∐ No	N/A	Pace Trip Blank Lot # (if purchased):
Comments/Resolution: Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of					Field Data Required? Yes No
Project Manager Review: Date: 12/9/22 NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of				_ [Date/Time:
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Labeled By:	NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a temp, incorrect containers).	copy of this for	rm will be sen		/ 1/ / / / / / /

Qualtrax ID: 52742

Pace® Analytical Services, LLC

Page 14 of 14 Page 1 of 1

Attachment D

Material Management Documentation

Shamrock	Lar	ndfill
761 Minne	esot	a 45
Cloquet,	MN	55720

INBOUND CHARGE

002708 LAKEHEAD CONSTRUCTORS INC

3801 WINTER ST

SUPERIOR WI 54880-5560

SITE	T	ICKET	GRII	D	WEIGH	HMASTER					
01	00	105256	LANDFILL	-	Janet B						
DAT	E IN	DATE OU	TIME IN	TIME OUT	VEHICLE	ROLL OFF					
01/04	4/23	01/04/23	8 08:35	08:35	U54	19-0020-02					
	REFER	RENCE			ORIGIN						
	19-00	20-02	T V	VTN+ 551307-WT-50VLES							

Scale 1 Gross Wt.

53820 LB

Stored Tare Wt.

28760 LB

Net Weight

25060 LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
.2.53	TON	Industrial/ton	Contract of the Contract of th			
			and a second			
			anti-tooning and a second			a de la companya de l

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

Generator:

HUSKY ENERGY/SUPERIOR REFINING

Address:

2407 STINSON AVE

City/ST:

SUPERIOR, WI 54880

Manifest:

SKB-WCI 4410

SIGNATURE _

Shamrock Landfill 761 Minnesota 45 Cloquet, MN 55720

INBOUND CHARGE

002708 LAKEHEAD CONSTRUCTORS INC

3826

3801 WINTER ST

SUPERIOR WI 54880-5560

SITE		ICKET	GRII	D	WEIGHMASTER							
01	00	105256	LANDFILL		Janet B							
DAT	EIN	DATE OU	T TIME IN	TIME OUT	VEHICLE	ROLL OFF						
01/04	1/23	01/04/23	08:35	08:35	U54	19-0020-02						
	REFE	RENCE			ORIGIN							
	19-00	20-02	V	VIN: 55130Z-WI-5AVLES								

Scale 1 Gross Wt.

53820 LB

\$tored Tare Wt.

28760 LB

Net Weight

25060 LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
.2.53	TON	Industrial/ton				
						-
						Name of the state
Annual An						
Service and Control of						Book of the state

Generator:

HUSKY ENERGY/SUPERIOR REFINING

Address: City/ST: 2407 STINSON AVE SUPERIOR, WI 54880

Manifest:

SKB-WCI 4410

3826

TENDERED

CHANGE

CHECK NO.

SIGNATURE _



Shamrock Landfill

Non Hazardous Industrial Waste

3826

Shipping Manifest	1. Generato	r's US EPA ID	No. (if any,) 	1	1	1	2. Pa	age 1 of	page(s)
3. Generator's Name and Facility Address HUSKY ENERGY/SUPERIOR REFINING CO 2407 STINSON AVE. SUPERIOR, WI 54880 4. Generator's Phone: (715) 817-6621					SKY E	NER	GY/S		OR REFIN ERIOR, W	
5. Transporter 1 Company Name UDEE 6. Transporter 2 Company Name	K	# 59	/					***************************************		
7. Designated Facility Name and Site Address	SKB/Sł	namrock E	vironn	Phone ental		·C			***************************************	
		N Highway E, MN 5572				Ph	one	: 218	-878-01	.12
8. U.S. DOT Description (including Proper Shipping	g Name)		9. C No.	ontaine Ty			10. Tota Quant	d	11. Unit Wt/Vol	12. Waste Profile Sheet#
Non Hazardous Industrial Waste (PETROLEUM IMPACTED SOIL)										
D.										
).										
1.										
(No. Additional Descriptions for Materials Listed Above (inc a. GL CL19-0020-02 PETROLEUM IMPACTED S b. CL c. CL		m Approval # belo	v) 14.	Special	Handlir	ng Pro	ocedur	res for \	Wastes Liste	ed Above
d. CL 5. Special Handling Instructions and Additional Inf Emergency Contact:	formation								office Use	Only 0526
GENERATOR'S CERTIFICATION: I hereby december shipping name and are classified, packed according to applicable international and nation	ed, marked, a	nd labeled, an								
Printed/Typed Name Will Stand 17. Transporter 1 Acknowledged of Receipt of Mate	erials	Signature	Pillian	Sl	7 Xv-				Мо ⊘	nth Day Yo
Printed phonom bent TK 18. Transporter 2 Acknowledgement of Receipt of I	54	Signature	12	lek					Mo O	nth Day Y
Printed/Typed Name		Signature							Mo	nth Day Y
19. Discrepancy Indication Space New Plate 56130 Z W	I-5A	+								
20. Facility Owner or Operator: Certification of reco	eipt of non-ha	azardous mate	rials cover	ed by	this M	anife	est exc	cept as	s noted in	tem 19.
Printed/Typed Name Janet Balduc or Alexus	Dhillin	Signature	71	11	10	1			Mg	nth Day Yo

Pink - Transporter

Goldenrod - Generator Copy