

CLOSURE REPORT

MERRIFIELD RECYCLED OIL
3053 BARNES LN, COTTONDALE, FL 32431
JACKSON COUNTY

I.D. Number: FLD 981 752 041

Permit Number: 65796-005-HO

Permit Expiration: November 18, 2022

August 2022



CERTIFICATIONS

8/31/2022

PERMITTEE

I, Jim Merrifield, certify that the information contained in this report is true and correct to the best of my knowledge and am fully aware of the Closure Activities included in this report.



Jim Merrifield, Owner
J.R. Merrifield, Inc. dba
Merrifield Recycled Oil
3053 Barnes Lane
Cottondale, FL 32431
(850) 209-2336

ENGINEER

I, William C. Nobles, P.E., certify that the information contained in this report is true and correct to the best of my knowledge and that the report was prepared in accordance with the approved Closure Conditions of the facility's permit.



William C Nobles, P.E. #51082
David H. Melvin, Inc.
Consulting Engineers EB#5637
4428 Lafayette St., P.O. Box 840
Marianna, FL 32447
(850) 482-3045

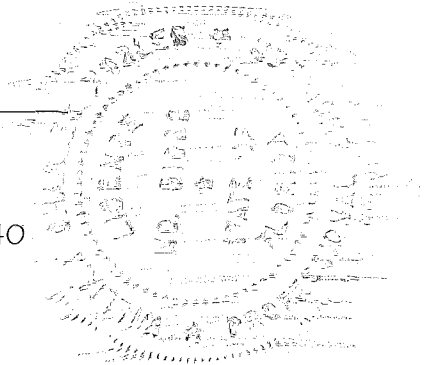


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Introduction

Merrifield Recycled Oil is a used oil processing facility on an approximate 1.0-acre parcel of land located in Cottondale, Florida. The Florida Department of Environmental Protection (FDEP) permit number for this facility is 65796-005-HO and the EPA ID number is FLD 981 752 041.

Monthly Closure Reports

The facility underwent closure and followed the FDEP approved Closure Plan as required by 40 CFR 279.54(h) and Rule 62-710.800(5), F.A.C. The Closure Activities Report was maintained and updated by the Permittee throughout the closure period. The Closure Activities Report was updated monthly and submitted to FDEP. Refer to Attachment D for all updated Closure Report submittals.

Environmental Sampling Data

Sludge samples were taken from each tank at Merrifield Recycled Oil and the results are shown in Attachment A.1. Once Waste Management received the sludge sample results, all the sludge from each tank was shipped to Waste Management.

The tanks were removed from the site and wipe samples were collected at the locations where each tank sat. Wipe samples were taken inside the boiler and underneath the boiler. Wipe samples were taken along the perimeter of the concrete containment area. The results of these wipe samples are shown in Attachments A.2 & A.3.

Soil samples were collected around the perimeter of the site and at the stormwater area. The results of the soil samples are shown in Attachment A. 2.

There was a crack in the containment area where tank numbers 3 and 4 were located. This portion of the concrete slab was removed and approximately 20.8 tons of soil was excavated. Soil samples were then collected in the excavation area and the results are shown in Attachment A.4.

The summary of all the wipe and soil samples are shown in Attachment A.5.

Decontamination Data

All sludge was removed from the tanks and shipped to Waste Management. The manifest and invoices from Waste Management are shown in Attachments B.1 & B.2.

All rinse water used to clean the tanks has been properly disposed of and shipped to Oil Recovery, Inc. The waste manifest invoice is attached as Attachment B.3.

The excavated soil was shipped to Waste Management and the manifest information is shown in Attachment B.4.

Final Closure Activities

The sludge inside the tanks has been transferred to a roll-off container. A composite sample of the sludge was taken in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261 Toxicity Characteristic Leaching Procedure (TCLP) (Attach. A.1). The sludge was then shipped to Waste Management (Attach. B.1 & B.2). The tanks were triple rinsed using a steam cleaner. The rinse water was removed with a pump. The rinse water amounted to 4,200 gallons and was shipped to Oil Recovery, Inc. located in Camilla, Georgia (Attach. B.3). All tanks, pipes, hoses, and pumps were drained and disposed of. The tanks were cut up for scrap metal and sold to Schnitzer Southeast, LLC located in Dothan, Alabama. The scrap metal amounted to 50,420 lbs. (Attach C.1). The boiler was drained and dried and abandoned in place. A wipe sample was collected from the interior of the boiler and was determined to be non-hazardous (Attach. A.2 & A.3). Wipe samples were collected at each former tank location surface, the location of the boiler, and perimeter of the containment surface (Attach. A.2 & A.3). Soil samples were taken around the perimeter of the containment area (Attach. A.2). Due to a crack in the containment area, a portion of the containment area and 20.79 tons of soil was excavated and shipped to Waste Management (Attach. B.4). Soil samples were collected at the site of the excavation (Attach. A.4). The excavation site was backfilled.

Southern Earth Sciences, Inc. completed the soil and wipe sampling at Merrifield Recycled Oil. The geotechnical company prepared a final report on the closure of the facility (Attach. E).

Environmental Specialist Corinna Clanton with FDEP visited the site on 8/30/2022 and verified that all closure activities have been completed. Refer to Attachments C.2 & C.3 for site pictures and the completed Closure Activities Schedule.

Attachment A.1
Environmental Sampling Data
Sludge Testing Dated 07/07/2021

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(base report)

WO#: 21070781

Date Reported: 7/22/2021

CLIENT: Merrifield Recycled Oil
Matrix: SLUDGE
Lab ID: 21070781-001A
Project:
Client Sample ID MRO #1

Tag Number:
Collection Date: 7/7/2021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS						
				SW7470A	SW7470A	Analyst: JEB
TCLP MERCURY ANALYSIS (SW1311/7470)						
TCLP Mercury	ND	0.0100		mg/L	1	7/20/2021 7:09:00 PM
TCLP METALS						
				SW6010	SW3010A	Analyst: MSK
TCLP METALS ANALYSIS (SW1311/6010)						
TCLP Arsenic(As)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Barium(Ba)	ND	12.5		mg/L	1	7/21/2021 12:01:00 PM
TCLP Cadmium(Cd)	ND	0.250		mg/L	1	7/21/2021 12:01:00 PM
TCLP Chromium(Cr)	ND	0.500		mg/L	1	7/21/2021 12:01:00 PM
TCLP Lead(Pb)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Selenium(Se)	ND	0.125		mg/L	1	7/21/2021 12:01:00 PM
TCLP Silver(Ag)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
PCB ANALYSIS						
				SW8082		Analyst: PGP
PCB ANALYSIS FOR OILS (8082)						
Aroclor 1016	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1221	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1232	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1242	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1248	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1254	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1260	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Total PCBs	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Surr: TCMX	105	67.8 - 130		%Rec	1	7/17/2021 4:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OGI	
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil
Project:

BatchID: 210716C

Sample ID: 21070975-001AMS	SampType: MS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130720						
Client ID: BatchQC	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	18.1	1.00	20.00	0	90.5	55.8	130				
Aroclor 1260	19.2	1.00	20.00	0	96.2	67.4	130				
Total PCBs	37.4	1.00	40.01	0	93.4	64.7	130				
Surr: TCMX	3.76		4.370		85.9	68.2	136				

Sample ID: 21070975-001AMSD	SampType: MSD	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130720						
Client ID: BatchQC	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458623						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	14.5	1.00	20.00	0	72.7	55.8	130	18.11	21.9	30	
Aroclor 1260	19.2	1.00	20.00	0	96.1	67.4	130	19.25	0.125	30	
Total PCBs	33.8	1.00	40.01	0	84.4	64.7	130	37.36	10.1	30	
Surr: TCMX	3.77		4.370		86.2	68.2	136		0		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil
Project:

BatchID: 210716C

Sample ID: MB-210716C	SampType: MBLK	TestCode: PCB_OIL(808 Units: ppm			Prep Date:			RunNo: 130719			
Client ID: PBW	Batch ID: 210716C	TestNo: SW8082			Analysis Date: 7/17/2021			SeqNo: 3458582			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 1.00	1.00		0	0						
Aroclor 1221	< 1.00	1.00		0	0						
Aroclor 1232	< 1.00	1.00		0	0						
Aroclor 1242	< 1.00	1.00		0	0						
Aroclor 1248	< 1.00	1.00		0	0						
Aroclor 1254	< 1.00	1.00		0	0						
Aroclor 1260	< 1.00	1.00		0	0						
Total PCBs	< 1.00	1.00		0	0						
Surr: TCMX	3.88		4.370		88.7	20	152				

Sample ID: LCS-210716C	SampType: LCS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: LCSW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	19.5	1.00	20.00	0	97.6	40.4	130				
Aroclor 1260	21.3	1.00	20.00	0	107	58.9	130				
Total PCBs	40.8	1.00	40.01	0	102	44.1	130				
Surr: TCMX	4.09		4.370		93.6	67.8	130				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Sample ID: MB-50818
 Sample Name: MB-50818
 Client ID: PBS
 Batch ID: 50818

QC SUMMARY REPORT

WO#: 21070781

22-Jul-21

Client: Meritel Engineering

Project:

BatchID: 50818

Sample ID: MB-50818	Sample Name: MB-50818	Test Code: MB-50818	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: PBS	Batch ID: 50818	Test Name: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463112						
Analyte	Result	FCV	IP Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000									

Sample ID: LCS-50818	Sample Name: LCS-50818	Test Code: LCS-50818	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: LCSS	Batch ID: 50818	Test Name: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463113						
Analyte	Result	FCV	IP Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	81.5	80	120				

Sample ID: 21071014-HIS	Sample Name: HIS	Test Code: 40100004	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 10411	Test Name: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463125						
Analyte	Result	FCV	IP Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	0	75	125				S

Sample ID: 21071014-HIS	Sample Name: 21071014-HIS	Test Code: 21071014-HIS	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 50818	Test Name: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	FCV	IP Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	0	75	125	0	0	20	S

Qualifiers: B - Sample below detection limit
 J - Sample below detection limit
 ND - Not Detected
 PL - Sample below detection limit
 S - Sample within quantitation range
 A - Sample above quantitation range
 C - Sample below quantitation range
 H - Holding times for preparation or analysis
 MC - Value is below Minimum Compound
 P - Second column confirmation exceeds
 RL - Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
 22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 50818

Sample ID: 21071006-010AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 50818	TestNo: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Attachment A.2
Environmental Sampling Data
Perimeter Soil & Wipe Samples Dated 6/01/22

June 14, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield RCRA/M22-350 6/2/22
Pace Project No.: 20245592

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20245592001	SB-1	Solid	06/01/22 10:05	06/02/22 13:24
20245592002	SB-2	Solid	06/01/22 10:20	06/02/22 13:24
20245592003	SB-3	Solid	06/01/22 10:40	06/02/22 13:24
20245592004	SB-4	Solid	06/01/22 10:58	06/02/22 13:24
20245592005	SB-5	Solid	06/01/22 11:15	06/02/22 13:24
20245592006	WS-1	Wipe	06/01/22 10:32	06/02/22 13:24
20245592007	WS-2	Wipe	06/01/22 10:39	06/02/22 13:24
20245592008	WS-3	Wipe	06/01/22 10:44	06/02/22 13:24
20245592009	WS-4	Wipe	06/01/22 10:48	06/02/22 13:24
20245592010	WS-5	Wipe	06/01/22 10:52	06/02/22 13:24
20245592011	WS-6	Wipe	06/01/22 10:58	06/02/22 13:24
20245592012	WS-7	Wipe	06/01/22 11:03	06/02/22 13:24
20245592013	WS-8	Wipe	06/01/22 11:10	06/02/22 13:24
20245592014	WS-9	Wipe	06/01/22 11:15	06/02/22 13:24
20245592015	WS-10	Wipe	06/01/22 11:20	06/02/22 13:24
20245592016	WS-11	Wipe	06/01/22 11:24	06/02/22 13:24
20245592017	WS-12	Wipe	06/01/22 11:28	06/02/22 13:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20245592001	SB-1	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592002	SB-2	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592003	SB-3	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592004	SB-4	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592005	SB-5	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592006	WS-1	EPA 6010	AJS	7
20245592007	WS-2	EPA 6010	AJS	7
20245592008	WS-3	EPA 6010	AJS	7
20245592009	WS-4	EPA 6010	AJS	7
20245592010	WS-5	EPA 6010	AJS	7
20245592011	WS-6	EPA 6010	AJS	7
20245592012	WS-7	EPA 6010	AJS	7
20245592013	WS-8	EPA 6010	AJS	7
20245592014	WS-9	EPA 6010	AJS	7
20245592015	WS-10	EPA 6010	AJS	7
20245592016	WS-11	EPA 6010	AJS	7
20245592017	WS-12	EPA 6010	AJS	7

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 MET ICP, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

12 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 257440

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- WS-12 (Lab ID: 20245592017)
 - Arsenic
- WS-3 (Lab ID: 20245592008)
 - Cadmium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 Metals, Total

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1225453)
 - Silver
- MSD (Lab ID: 1225454)
 - Barium
 - Silver

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 7471

Description: 7471 Mercury

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257018

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1224620)
 - Mercury
- MSD (Lab ID: 1224621)
 - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 1224621)
 - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-1 **Lab ID: 20245592001** Collected: 06/01/22 10:05 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	8.9	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-38-2	
Barium	26.0	mg/kg	19.2	1	06/07/22 06:45	06/08/22 11:44	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7440-43-9	
Chromium	24.5	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-47-3	
Lead	16.1	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7439-92-1	
Selenium	ND	mg/kg	1.9	1	06/07/22 06:45	06/08/22 11:44	7782-49-2	
Silver	ND	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	0.022	mg/kg	0.019	1	06/06/22 07:10	06/07/22 11:43	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.4	%	0.50	1		06/03/22 11:40		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-2 **Lab ID: 20245592002** Collected: 06/01/22 10:20 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-38-2	
Barium	ND	mg/kg	22.6	1	06/07/22 06:45	06/08/22 11:48	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7440-43-9	
Chromium	4.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-47-3	
Lead	4.6	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7439-92-1	
Selenium	ND	mg/kg	2.3	1	06/07/22 06:45	06/08/22 11:48	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:45	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.3	%	0.50	1		06/03/22 11:41		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-3 **Lab ID: 20245592003** Collected: 06/01/22 10:40 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-38-2	
Barium	ND	mg/kg	19.8	1	06/07/22 06:45	06/08/22 11:52	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7440-43-9	
Chromium	4.7	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-47-3	
Lead	8.4	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7439-92-1	
Selenium	ND	mg/kg	2.0	1	06/07/22 06:45	06/08/22 11:52	7782-49-2	
Silver	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:47	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	8.3	%	0.50	1		06/03/22 11:42		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-4 **Lab ID: 20245592004** Collected: 06/01/22 10:58 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-38-2	
Barium	ND	mg/kg	22.1	1	06/07/22 06:45	06/08/22 11:57	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7440-43-9	
Chromium	5.0	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-47-3	
Lead	85.1	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 11:57	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.021	1	06/06/22 07:10	06/07/22 11:49	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	19.2	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-5 **Lab ID: 20245592005** Collected: 06/01/22 11:15 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-38-2	
Barium	ND	mg/kg	22.3	1	06/07/22 06:45	06/08/22 12:01	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7440-43-9	
Chromium	10.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-47-3	
Lead	2.0	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 12:01	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.022	1	06/06/22 07:10	06/07/22 11:52	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	28.7	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-1		Lab ID: 20245592006		Collected: 06/01/22 10:32		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	5.3	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-38-2		
Barium	2460	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:18	7440-39-3		
Cadmium	0.39	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7440-43-9		
Chromium	11.2	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-47-3		
Lead	28.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:18	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-2		Lab ID: 20245592007		Collected: 06/01/22 10:39		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	1.2	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-38-2		
Barium	95.1	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:39	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7440-43-9		
Chromium	1.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-47-3		
Lead	2.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:39	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-3		Lab ID: 20245592008		Collected: 06/01/22 10:44		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	37.3	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-38-2	D3	
Barium	2150	Total ug	20.0	2	06/08/22 06:35	06/14/22 10:22	7440-39-3		
Cadmium	ND	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7440-43-9		
Chromium	13.5	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-47-3		
Lead	66.7	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7439-92-1		
Selenium	ND	Total ug	3.5	2	06/08/22 06:35	06/14/22 10:22	7782-49-2		
Silver	ND	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-4		Lab ID: 20245592009	Collected: 06/01/22 10:48	Received: 06/02/22 13:24	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans						
Arsenic	4.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-38-2	
Barium	106	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:47	7440-39-3	
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7440-43-9	
Chromium	3.5	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-47-3	
Lead	7.2	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7439-92-1	
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:47	7782-49-2	
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-5		Lab ID: 20245592010		Collected: 06/01/22 10:52		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	1.9	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-38-2
		Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:51	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7440-43-9
		Chromium	3.0	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-47-3
		Lead	1.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:51	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-22-4

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-6		Lab ID: 20245592011		Collected: 06/01/22 10:58		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	0.54	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:55	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7440-43-9		
Chromium	0.59	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-47-3		
Lead	11.8	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:55	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-7		Lab ID: 20245592012		Collected: 06/01/22 11:03		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	0.91	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:59	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7440-43-9		
Chromium	6.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-47-3		
Lead	4.9	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:59	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-8		Lab ID: 20245592013		Collected: 06/01/22 11:10		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	10.6	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-38-2	
		Barium	136	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:27	7440-39-3	
		Cadmium	0.80	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7440-43-9	
		Chromium	21.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-47-3	
		Lead	39.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:27	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-9		Lab ID: 20245592014		Collected: 06/01/22 11:15		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	8.8	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-38-2		
Barium	534	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:31	7440-39-3		
Cadmium	0.31	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7440-43-9		
Chromium	11.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-47-3		
Lead	87.6	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:31	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-10		Lab ID: 20245592015		Collected: 06/01/22 11:20		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	5.1	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-38-2		
Barium	327	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:35	7440-39-3		
Cadmium	0.40	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7440-43-9		
Chromium	36.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-47-3		
Lead	138	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:35	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-22-4		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-11		Lab ID: 20245592016		Collected: 06/01/22 11:24		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-38-2
		Barium	17.5	Total ug	10.0	1	06/08/22 06:35	06/13/22 13:23	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7440-43-9
		Chromium	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-47-3
		Lead	11.1	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 13:23	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-22-4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-12		Lab ID: 20245592017		Collected: 06/01/22 11:28		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	10.3	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-38-2	D3	
Barium	261	Total ug	100	10	06/08/22 06:35	06/13/22 13:27	7440-39-3		
Cadmium	8.1	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7440-43-9		
Chromium	49.1	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-47-3		
Lead	205	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7439-92-1		
Selenium	ND	Total ug	17.5	10	06/08/22 06:35	06/13/22 13:27	7782-49-2		
Silver	ND	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-22-4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257018

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1224618

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	06/07/22 11:10	

LABORATORY CONTROL SAMPLE: 1224619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224620 1224621

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.4	0.077	0.086	0.22	0.76	-1480	-704	75-125	110	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257440	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET Wipes
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017		

METHOD BLANK:	1226474	Matrix:	Wipe
Associated Lab Samples:	20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	Total ug	ND	0.50	06/13/22 12:19	
Barium	Total ug	ND	10.0	06/13/22 12:19	
Cadmium	Total ug	ND	0.25	06/13/22 12:19	
Chromium	Total ug	ND	0.50	06/13/22 12:19	
Lead	Total ug	ND	0.25	06/13/22 12:19	
Selenium	Total ug	ND	1.8	06/13/22 12:19	
Silver	Total ug	ND	0.50	06/13/22 12:19	

LABORATORY CONTROL SAMPLE: 1226475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	Total ug	50	49.6	99	85-115	
Barium	Total ug	50	50.2	100	85-115	
Cadmium	Total ug	50	48.9	98	85-115	
Chromium	Total ug	50	51.0	102	85-115	
Lead	Total ug	50	49.5	99	85-115	
Selenium	Total ug	50	48.0	96	85-115	
Silver	Total ug	25	24.6	98	85-115	

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257241	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1225451

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.86	06/08/22 10:38	
Barium	mg/kg	ND	17.2	06/08/22 10:38	
Cadmium	mg/kg	ND	0.43	06/08/22 10:38	
Chromium	mg/kg	ND	0.86	06/08/22 10:38	
Lead	mg/kg	ND	0.43	06/08/22 10:38	
Selenium	mg/kg	ND	1.7	06/08/22 10:38	
Silver	mg/kg	ND	0.86	06/08/22 10:38	

LABORATORY CONTROL SAMPLE: 1225452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	99.6	100	84-115	
Barium	mg/kg	100	104	104	85-115	
Cadmium	mg/kg	100	101	101	85-115	
Chromium	mg/kg	100	105	105	85-115	
Lead	mg/kg	100	102	102	85-115	
Selenium	mg/kg	100	96.1	96	77-115	
Silver	mg/kg	50	49.1	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225453 1225454

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	10.1	84.7	90.9	89.8	96.1	94	95	80-120	7	20	
Barium	mg/kg	880	84.7	90.9	961	1060	96	194	80-120	9	20	M1
Cadmium	mg/kg	ND	84.7	90.9	84.2	91.2	98	99	80-120	8	20	
Chromium	mg/kg	38.4	84.7	90.9	130	137	108	108	80-120	5	20	
Lead	mg/kg	45.1	84.7	90.9	137	141	108	105	80-120	3	20	
Selenium	mg/kg	ND	84.7	90.9	81.5	91.5	95	100	80-120	12	20	
Silver	mg/kg	ND	42.4	45.5	27.9	28.9	66	64	80-120	3	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257021

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

SAMPLE DUPLICATE: 1224626

Parameter	Units	50317525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.7	41.3	4	20	

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QUALIFIERS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20245592006	WS-1	EPA 3050	257440	EPA 6010	257467
20245592007	WS-2	EPA 3050	257440	EPA 6010	257467
20245592008	WS-3	EPA 3050	257440	EPA 6010	257467
20245592009	WS-4	EPA 3050	257440	EPA 6010	257467
20245592010	WS-5	EPA 3050	257440	EPA 6010	257467
20245592011	WS-6	EPA 3050	257440	EPA 6010	257467
20245592012	WS-7	EPA 3050	257440	EPA 6010	257467
20245592013	WS-8	EPA 3050	257440	EPA 6010	257467
20245592014	WS-9	EPA 3050	257440	EPA 6010	257467
20245592015	WS-10	EPA 3050	257440	EPA 6010	257467
20245592016	WS-11	EPA 3050	257440	EPA 6010	257467
20245592017	WS-12	EPA 3050	257440	EPA 6010	257467
20245592001	SB-1	EPA 3050	257241	EPA 6010	257347
20245592002	SB-2	EPA 3050	257241	EPA 6010	257347
20245592003	SB-3	EPA 3050	257241	EPA 6010	257347
20245592004	SB-4	EPA 3050	257241	EPA 6010	257347
20245592005	SB-5	EPA 3050	257241	EPA 6010	257347
20245592001	SB-1	EPA 7471	257018	EPA 7471	257217
20245592002	SB-2	EPA 7471	257018	EPA 7471	257217
20245592003	SB-3	EPA 7471	257018	EPA 7471	257217
20245592004	SB-4	EPA 7471	257018	EPA 7471	257217
20245592005	SB-5	EPA 7471	257018	EPA 7471	257217
20245592001	SB-1	Moisture	257021		
20245592002	SB-2	Moisture	257021		
20245592003	SB-3	Moisture	257021		
20245592004	SB-4	Moisture	257021		
20245592005	SB-5	Moisture	257021		

REPORT OF LABORATORY ANALYSIS

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PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: SESI		Report To: Enc Guarino		Attention:	
Address: 5460 Rangeline Road		Copy To:		Company Name	
Mobile, AL 36619				Address:	
Email To: eguarino@seearth.com		Purchase Order No.:		Pace Quote Reference:	
Phone: (251) 344-7711 Fax:		Project Name: Memphis RCRA Closure		Pace Project Manager:	
Requested Due Date/TAT: Standard TAT		Project Number: 422-350		Pace Profile #:	
REGULATORY AGENCY					
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER					
Site Location				STATE: FL	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																	
					DATE	TIME	DATE	TIME																											
1	WS-9		WP G	6/1/22	1115					1	X								X	X														I square foot	
2	WS-10		WP G	↓	1120					1	X								X	X														↓	
3	WS-11		WP G	↓	1124					1	X								X	X															
4	WS-12		WP G	↓	1128					1	X								X	X															
5	SB-5		SL G	↓	1115					1	X								X	X															
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Wipe samples report in ug/ft ²	Horacio Martinez / SESI	6/2/22	1324	Kyle A. Wilton	6/2/22	1324	1.3	Y	N

ORIGINAL

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Horacio Martinez		DATE Signed (MM/DD/YY): 6/2/22	
SIGNATURE of SAMPLER: <i>Horacio Martinez</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

WO#: 20245592

PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking #

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/2/2022 KALJ

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☐ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Attachment A.3
Environmental Sampling Data
Wipe Samples Dated 6/09/22

June 22, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield M22-350 6/14/22
Pace Project No.: 20246759

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20246759001	WS-1	Wipe	06/09/22 07:50	06/14/22 14:17
20246759002	WS-2	Wipe	06/09/22 07:55	06/14/22 14:17
20246759003	WS-3	Wipe	06/09/22 08:00	06/14/22 14:17
20246759004	WS-4	Wipe	06/09/22 08:05	06/14/22 14:17
20246759005	WS-5	Wipe	06/09/22 08:10	06/14/22 14:17
20246759006	WS-6	Wipe	06/09/22 08:20	06/14/22 14:17
20246759007	WS-7	Wipe	06/09/22 08:15	06/14/22 14:17
20246759008	WS-8	Wipe	06/09/22 08:25	06/14/22 14:17
20246759009	WS-9	Wipe	06/09/22 08:30	06/14/22 14:17
20246759010	WS-10	Wipe	06/09/22 08:35	06/14/22 14:17
20246759011	WS-11	Wipe	06/09/22 08:40	06/14/22 14:17
20246759012	WS-12	Wipe	06/09/22 08:45	06/14/22 14:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20246759001	WS-1	EPA 7471	AJS	1
20246759002	WS-2	EPA 7471	AJS	1
20246759003	WS-3	EPA 7471	AJS	1
20246759004	WS-4	EPA 7471	AJS	1
20246759005	WS-5	EPA 7471	AJS	1
20246759006	WS-6	EPA 7471	AJS	1
20246759007	WS-7	EPA 7471	AJS	1
20246759008	WS-8	EPA 7471	AJS	1
20246759009	WS-9	EPA 7471	AJS	1
20246759010	WS-10	EPA 7471	AJS	1
20246759011	WS-11	EPA 7471	AJS	1
20246759012	WS-12	EPA 7471	AJS	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Method: EPA 7471

Description: 7471 Mercury, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 22, 2022

General Information:

12 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-1		Lab ID: 20246759001	Collected: 06/09/22 07:50	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:19	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-2		Lab ID: 20246759002	Collected: 06/09/22 07:55	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:21	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-3		Lab ID: 20246759003		Collected: 06/09/22 08:00		Received: 06/14/22 14:17		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans							
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:24	7439-97-6		

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-4		Lab ID: 20246759004	Collected: 06/09/22 08:05	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.014	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:26	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-5		Lab ID: 20246759005		Collected: 06/09/22 08:10		Received: 06/14/22 14:17		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans							
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:28	7439-97-6		

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-6		Lab ID: 20246759006	Collected: 06/09/22 08:20	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:31	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-7		Lab ID: 20246759007	Collected: 06/09/22 08:15	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.016	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:33	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-8		Lab ID: 20246759008	Collected: 06/09/22 08:25	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:35	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-9		Lab ID: 20246759009	Collected: 06/09/22 08:30	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.012	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:42	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-10		Lab ID: 20246759010	Collected: 06/09/22 08:35	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.020	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:45	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-11		Lab ID: 20246759011	Collected: 06/09/22 08:40	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.0096	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:47	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-12		Lab ID: 20246759012	Collected: 06/09/22 08:45	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.022	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:49	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

QC Batch:	258715	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury Wipe
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012		

METHOD BLANK:	1233385	Matrix:	Wipe
Associated Lab Samples:	20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	Total ug	ND	0.0060	06/22/22 11:15	

LABORATORY CONTROL SAMPLE:	1233386					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	Total ug	0.03	0.031	103	80-120	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20246759001	WS-1	EPA 7471	258715	EPA 7471	258721
20246759002	WS-2	EPA 7471	258715	EPA 7471	258721
20246759003	WS-3	EPA 7471	258715	EPA 7471	258721
20246759004	WS-4	EPA 7471	258715	EPA 7471	258721
20246759005	WS-5	EPA 7471	258715	EPA 7471	258721
20246759006	WS-6	EPA 7471	258715	EPA 7471	258721
20246759007	WS-7	EPA 7471	258715	EPA 7471	258721
20246759008	WS-8	EPA 7471	258715	EPA 7471	258721
20246759009	WS-9	EPA 7471	258715	EPA 7471	258721
20246759010	WS-10	EPA 7471	258715	EPA 7471	258721
20246759011	WS-11	EPA 7471	258715	EPA 7471	258721
20246759012	WS-12	EPA 7471	258715	EPA 7471	258721

REPORT OF LABORATORY ANALYSIS

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Company Name/Address: SESI 5460 Rangeline Rd Mobile AL 36619				Billing Information: SESI				Analysis / Container / Pres Chk	
Report to: E.C. Guarino				Email To: eguarino@seearth.com				Mercury	
Project Description: Merrifield				City/State Collected: GtHndale FL		Please Circle: PT MT CT ET			
Phone: 251 344-7711		Client Project # M22-350		Lab Project #					
Collected by (print): TBarny		Site/Facility ID #		P.O. #					
Collected by (signature): <i>Sam Barny</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # Std					
Immediately Packed on Ice N ☐ Y ☐		Date Results Needed Std		No. of Cntrs					
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time				
V/S 1		wipe	1sf	6-9-22	750	1	X		
WS-2				6-9-22	755	1	X		
WS-3				6-9-22	800	1	X		
WS-4				6-9-22	805	1	X		
WS-5				6-9-22	810	1	X		
WS 6				6-9-22	820	1	X		
WS 7				6-9-22	815	1	X		
WS 8				6-9-22	825	1	X		
WS 9				6-9-22	830	1	X		
WS 10				6-9-22	835	1	X		

*** Matrix:**
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other wipe

Remarks:
 Report wipe in ug/ft²

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)
Sam Barny

Date: 6-9-22 **Time:** 3:00

Received by: (Signature)
Fed Ex

Date: 7/10/22 **Time:** 1630

Relinquished by: (Signature)
Fed Ex

Date: 6/13/22 **Time:** 1400

Received by: (Signature)
[Signature]

Date: 6/13/22 **Time:** 1400

Relinquished by: (Signature)
[Signature]

Date: 6/14/22 **Time:**

Received for lab by: (Signature)
Michelle [Signature]

Date: 6/14/22 **Time:** 1417

Temp: 23.2 °C **Bottles Received:**

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Sample Receipt Checklist

COC Seal Present/Intact:	☐ NP	☒ Y	☐ N
COC Signed/Accurate:	☒ Y	☐ N	
Bottles arrive intact:	☒ Y	☐ N	
Correct bottles used:	☒ Y	☐ N	
Sufficient volume sent:	☒ Y	☐ N	
If Applicable			
VOA Zero Headspace:	☐ Y	☐ N	
Preservation Correct/Checked:	☐ Y	☐ N	
RAD Screen <0.5 mR/hr:	☐ Y	☐ N	

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF / ☒ OK

WO#: 20246759



20246759

12065 Lebanon Rd Mount Juliet, TN 37122

Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

Company Name/Address:

Billing Information:

Analysis / Container

WO#: 20246759

PM: SLW

Due Date: 06/24/22

CLIENT: MO-SES

Pres
Chk

Report to:

Email To:

Project Description:

City/State

Collected:

Please Circle:

PT MT CT ET

Phone:

Client Project #

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately

Packed on Ice N Y

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cnts

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

WS 11

Wipe

1sf

6-9-22

840

1

X

WS 12

Wipe

1sf

6-9-22

845

1

X

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
 COC Signed/Accurate: ☐ Y ☐ N
 Bottles arrive intact: ☐ Y ☐ N
 Correct bottles used: ☐ Y ☐ N
 Sufficient volume sent: ☐ Y ☐ N
 If Applicable
 VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☐ Y ☐ N

17065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance
of the Pace Terms and Conditions found at:
<http://info.pacelabs.com/subfu/pas-standard-terms.pdf>

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

20246759

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/14/2022 KALW

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Attachment A.4
Environmental Sampling Data
Post-excavation Soil Samples Dated 7/20/2022

July 27, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: M22-350 07/20/22
Pace Project No.: 20250636

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20250636001	East	Solid	07/20/22 10:15	07/21/22 16:38
20250636002	South	Solid	07/20/22 10:20	07/21/22 16:38
20250636003	West	Solid	07/20/22 10:40	07/21/22 16:38
20250636004	North	Solid	07/20/22 10:35	07/21/22 16:38
20250636005	Mid	Solid	07/21/22 10:30	07/21/22 16:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20250636001	East	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636002	South	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636003	West	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636004	North	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636005	Mid	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Method: EPA 6010

Description: 6010 Metals, Total

Client: Southern Earth Sciences, Inc.

Date: July 27, 2022

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 261488

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20250746001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1248565)
 - Arsenic
- MSD (Lab ID: 1248566)
 - Arsenic

R1: RPD value was outside control limits.

- MSD (Lab ID: 1248566)
 - Arsenic

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Method: EPA 7471

Description: 7471 Mercury

Client: Southern Earth Sciences, Inc.

Date: July 27, 2022

General Information:

5 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: East **Lab ID: 20250636001** Collected: 07/20/22 10:15 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.0	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-38-2	
Barium	ND	mg/kg	17.7	1	07/25/22 06:50	07/26/22 10:40	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:40	7440-43-9	
Chromium	5.2	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-47-3	
Lead	26.0	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:40	7439-92-1	
Selenium	ND	mg/kg	1.8	1	07/25/22 06:50	07/26/22 10:40	7782-49-2	
Silver	ND	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.017	1	07/25/22 07:17	07/26/22 11:51	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	5.7	%	0.50	1		07/25/22 12:43		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: South **Lab ID: 20250636002** Collected: 07/20/22 10:20 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-38-2	
Barium	ND	mg/kg	17.7	1	07/25/22 06:50	07/26/22 10:44	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:44	7440-43-9	
Chromium	2.7	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-47-3	
Lead	3.3	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:44	7439-92-1	
Selenium	ND	mg/kg	1.8	1	07/25/22 06:50	07/26/22 10:44	7782-49-2	
Silver	ND	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.017	1	07/25/22 07:17	07/26/22 11:53	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	9.1	%	0.50	1		07/26/22 07:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: West **Lab ID: 20250636003** Collected: 07/20/22 10:40 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.8	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-38-2	
Barium	26.9	mg/kg	23.2	1	07/25/22 06:50	07/26/22 10:48	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	07/25/22 06:50	07/26/22 10:48	7440-43-9	
Chromium	13.9	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-47-3	
Lead	32.4	mg/kg	0.58	1	07/25/22 06:50	07/26/22 10:48	7439-92-1	
Selenium	ND	mg/kg	2.3	1	07/25/22 06:50	07/26/22 10:48	7782-49-2	
Silver	ND	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.019	1	07/25/22 07:17	07/26/22 11:55	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	15.4	%	0.50	1		07/26/22 07:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: North **Lab ID: 20250636004** Collected: 07/20/22 10:35 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.2	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-38-2	
Barium	32.9	mg/kg	16.9	1	07/25/22 06:50	07/26/22 10:52	7440-39-3	
Cadmium	0.62	mg/kg	0.42	1	07/25/22 06:50	07/26/22 10:52	7440-43-9	
Chromium	11.8	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-47-3	
Lead	13.4	mg/kg	0.42	1	07/25/22 06:50	07/26/22 10:52	7439-92-1	
Selenium	ND	mg/kg	1.7	1	07/25/22 06:50	07/26/22 10:52	7782-49-2	
Silver	ND	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	0.41	mg/kg	0.020	1	07/25/22 07:17	07/26/22 11:58	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	11.9	%	0.50	1		07/26/22 07:18		

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: Mid **Lab ID:** 20250636005 Collected: 07/21/22 10:30 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.3	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-38-2	
Barium	29.2	mg/kg	15.7	1	07/25/22 06:50	07/26/22 10:55	7440-39-3	
Cadmium	ND	mg/kg	0.39	1	07/25/22 06:50	07/26/22 10:55	7440-43-9	
Chromium	13.8	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-47-3	
Lead	9.3	mg/kg	0.39	1	07/25/22 06:50	07/26/22 10:55	7439-92-1	
Selenium	ND	mg/kg	1.6	1	07/25/22 06:50	07/26/22 10:55	7782-49-2	
Silver	ND	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.023	1	07/25/22 07:17	07/26/22 12:00	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	16.4	%	0.50	1		07/26/22 07:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch:	261489	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

METHOD BLANK: 1248557 Matrix: Solid

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	07/26/22 11:32	

LABORATORY CONTROL SAMPLE: 1248558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248559 1248560

Parameter	Units	20250674001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.088	0.083	0.099	0.091	105	101	75-125	8	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch:	261488	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

METHOD BLANK: 1248553

Matrix: Solid

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	07/26/22 09:52	
Barium	mg/kg	ND	20.0	07/26/22 09:52	
Cadmium	mg/kg	ND	0.50	07/26/22 09:52	
Chromium	mg/kg	ND	1.0	07/26/22 09:52	
Lead	mg/kg	ND	0.50	07/26/22 09:52	
Selenium	mg/kg	ND	2.0	07/26/22 09:52	
Silver	mg/kg	ND	1.0	07/26/22 09:52	

LABORATORY CONTROL SAMPLE: 1248554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	96.2	96	84-115	
Barium	mg/kg	100	100	100	85-115	
Cadmium	mg/kg	100	95.2	95	85-115	
Chromium	mg/kg	100	100	100	85-115	
Lead	mg/kg	100	97.2	97	85-115	
Selenium	mg/kg	100	91.3	91	77-115	
Silver	mg/kg	50	48.4	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248565 1248566

Parameter	Units	20250746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5750	83.3	82	5300	4030	-540	-2090	80-120	27	20	M1, R1
Barium	mg/kg	ND	83.3	82	124	120	90	86	80-120	4	20	
Cadmium	mg/kg	21.0	83.3	82	98.6	98.2	93	94	80-120	0	20	
Chromium	mg/kg	76.5	83.3	82	153	158	92	99	80-120	3	20	
Lead	mg/kg	ND	83.3	82	77.6	78.9	93	96	80-120	2	20	
Selenium	mg/kg	ND	83.3	82	82.3	82.3	95	96	80-120	0	20	
Silver	mg/kg	ND	41.7	41	39.9	39.8	95	96	80-120	0	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch: 261517

QC Batch Method: Moisture

Analysis Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001

SAMPLE DUPLICATE: 1248637

Parameter	Units	20250297001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	51.1	50.6	1	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch: 261598

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636002, 20250636003, 20250636004, 20250636005

SAMPLE DUPLICATE: 1249024

Parameter	Units	20250635011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.9	17.6	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: M22-350 07/20/22

Pace Project No.: 20250636

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20250636001	East	EPA 3050	261488	EPA 6010	261515
20250636002	South	EPA 3050	261488	EPA 6010	261515
20250636003	West	EPA 3050	261488	EPA 6010	261515
20250636004	North	EPA 3050	261488	EPA 6010	261515
20250636005	Mid	EPA 3050	261488	EPA 6010	261515
20250636001	East	EPA 7471	261489	EPA 7471	261507
20250636002	South	EPA 7471	261489	EPA 7471	261507
20250636003	West	EPA 7471	261489	EPA 7471	261507
20250636004	North	EPA 7471	261489	EPA 7471	261507
20250636005	Mid	EPA 7471	261489	EPA 7471	261507
20250636001	East	Moisture	261517		
20250636002	South	Moisture	261598		
20250636003	West	Moisture	261598		
20250636004	North	Moisture	261598		
20250636005	Mid	Moisture	261598		

REPORT OF LABORATORY ANALYSIS

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Attachment A.5
Environmental Sampling Data
Summary of All Sampling

**MERRIFIELD RECYCLED OIL
SOIL SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
SB-1	06/01/2022 10:05	Arsenic	mg/kg	0.96	8.9	100	5
	06/01/2022 10:05	Barium	mg/kg	19.2	26.0	2000	100
	06/01/2022 10:05	Cadmium	mg/kg	0.48	ND	100	1
	06/01/2022 10:05	Chromium	mg/kg	0.96	24.5	100	5
	06/01/2022 10:05	Lead	mg/kg	0.48	16.1	100	5
	06/01/2022 10:05	Selenium	mg/kg	1.9	ND	100	1
	06/01/2022 10:05	Silver	mg/kg	0.96	ND	100	5
	06/01/2022 10:05	Mercury	mg/kg	0.019	0.022	20	0.2
SB-2	06/01/2022 10:20	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Barium	mg/kg	22.6	ND	2000	100
	06/01/2022 10:20	Cadmium	mg/kg	0.57	ND	100	1
	06/01/2022 10:20	Chromium	mg/kg	1.1	4.8	100	5
	06/01/2022 10:20	Lead	mg/kg	0.57	4.6	100	5
	06/01/2022 10:20	Selenium	mg/kg	2.3	ND	100	1
	06/01/2022 10:20	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Mercury	mg/kg	0.016	ND	20	0.2
SB-3	06/01/2022 10:40	Arsenic	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Barium	mg/kg	19.8	ND	2000	100
	06/01/2022 10:40	Cadmium	mg/kg	0.50	ND	100	1
	06/01/2022 10:40	Chromium	mg/kg	0.99	4.7	100	5
	06/01/2022 10:40	Lead	mg/kg	0.50	8.4	100	5
	06/01/2022 10:40	Selenium	mg/kg	2.0	ND	100	1
	06/01/2022 10:40	Silver	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Mercury	mg/kg	0.016	ND	20	0.2
SB-4	06/01/2022 10:58	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Barium	mg/kg	22.1	ND	2000	100
	06/01/2022 10:58	Cadmium	mg/kg	0.55	ND	100	1
	06/01/2022 10:58	Chromium	mg/kg	1.1	5.0	100	5
	06/01/2022 10:58	Lead	mg/kg	0.55	85.1	100	5
	06/01/2022 10:58	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 10:58	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Mercury	mg/kg	0.021	ND	20	0.2
SB-5	06/01/2022 11:15	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Barium	mg/kg	22.3	ND	2000	100
	06/01/2022 11:15	Cadmium	mg/kg	0.56	ND	100	1
	06/01/2022 11:15	Chromium	mg/kg	1.1	10.8	100	5
	06/01/2022 11:15	Lead	mg/kg	0.56	2.0	100	5
	06/01/2022 11:15	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 11:15	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Mercury	mg/kg	0.022	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-1	06/01/2022 10:32	Arsenic	Total ug	0.50	5.3	100,000	5,000
	06/01/2022 10:32	Barium	Total ug	10.0	2460	2,000,000	100,000
	06/01/2022 10:32	Cadmium	Total ug	0.25	0.39	100,000	1,000
	06/01/2022 10:32	Chromium	Total ug	0.50	11.2	1,000,000	5,000
	06/01/2022 10:32	Lead	Total ug	0.25	28.5	1,000,000	5,000
	06/01/2022 10:32	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:32	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:50	Mercury	Total ug	0.0060	ND	20,000	200
WS-2	06/01/2022 10:39	Arsenic	Total ug	0.50	1.2	100,000	5,000
	06/01/2022 10:39	Barium	Total ug	10.0	95.1	2,000,000	100,000
	06/01/2022 10:39	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:39	Chromium	Total ug	0.50	1.6	1,000,000	5,000
	06/01/2022 10:39	Lead	Total ug	0.25	2.3	1,000,000	5,000
	06/01/2022 10:39	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:39	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:55	Mercury	Total ug	0.0060	ND	20,000	200
WS-3	06/01/2022 10:44	Arsenic	Total ug	1.0	37.3	100,000	5,000
	06/01/2022 10:44	Barium	Total ug	20.0	2150	2,000,000	100,000
	06/01/2022 10:44	Cadmium	Total ug	0.50	ND	100,000	1,000
	06/01/2022 10:44	Chromium	Total ug	1.0	13.5	1,000,000	5,000
	06/01/2022 10:44	Lead	Total ug	0.50	66.7	1,000,000	5,000
	06/01/2022 10:44	Selenium	Total ug	3.5	ND	1,000,000	1,000
	06/01/2022 10:44	Silver	Total ug	1.0	ND	1,000,000	5,000
	06/09/2022 08:00	Mercury	Total ug	0.0060	ND	20,000	200
WS-4	06/01/2022 10:48	Arsenic	Total ug	0.50	4.6	100,000	5,000
	06/01/2022 10:48	Barium	Total ug	10.0	106	2,000,000	100,000
	06/01/2022 10:48	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:48	Chromium	Total ug	0.50	3.5	1,000,000	5,000
	06/01/2022 10:48	Lead	Total ug	0.25	7.2	1,000,000	5,000
	06/01/2022 10:48	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:48	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:05	Mercury	Total ug	0.0060	0.014	20,000	200
WS-5	06/01/2022 10:52	Arsenic	Total ug	0.50	1.9	100,000	5,000
	06/01/2022 10:52	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:52	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:52	Chromium	Total ug	0.50	3.0	1,000,000	5,000
	06/01/2022 10:52	Lead	Total ug	0.25	1.3	1,000,000	5,000
	06/01/2022 10:52	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:52	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:10	Mercury	Total ug	0.0060	ND	20,000	200
WS-6	06/01/2022 10:58	Arsenic	Total ug	0.50	0.54	100,000	5,000
	06/01/2022 10:58	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:58	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:58	Chromium	Total ug	0.50	0.59	1,000,000	5,000
	06/01/2022 10:58	Lead	Total ug	0.25	11.8	1,000,000	5,000
	06/01/2022 10:58	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:58	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:20	Mercury	Total ug	0.0060	0.011	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-7	06/01/2022 11:03	Arsenic	Total ug	0.50	0.91	100,000	5,000
	06/01/2022 11:03	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 11:03	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:03	Chromium	Total ug	0.50	6.6	1,000,000	5,000
	06/01/2022 11:03	Lead	Total ug	0.25	4.9	1,000,000	5,000
	06/01/2022 11:03	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:03	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:15	Mercury	Total ug	0.0060	0.016	20,000	200
WS-8	06/01/2022 11:10	Arsenic	Total ug	0.50	10.6	100,000	5,000
	06/01/2022 11:10	Barium	Total ug	10.0	136	2,000,000	100,000
	06/01/2022 11:10	Cadmium	Total ug	0.25	0.80	100,000	1,000
	06/01/2022 11:10	Chromium	Total ug	0.50	21.9	1,000,000	5,000
	06/01/2022 11:10	Lead	Total ug	0.25	39.5	1,000,000	5,000
	06/01/2022 11:10	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:10	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:25	Mercury	Total ug	0.0060	0.011	20,000	200
WS-9	06/01/2022 11:15	Arsenic	Total ug	0.50	8.8	100,000	5,000
	06/01/2022 11:15	Barium	Total ug	10.0	534	2,000,000	100,000
	06/01/2022 11:15	Cadmium	Total ug	0.25	0.31	100,000	1,000
	06/01/2022 11:15	Chromium	Total ug	0.50	11.9	1,000,000	5,000
	06/01/2022 11:15	Lead	Total ug	0.25	87.6	1,000,000	5,000
	06/01/2022 11:15	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:15	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:30	Mercury	Total ug	0.0060	0.012	20,000	200
WS-10	06/01/2022 11:20	Arsenic	Total ug	0.50	5.1	100,000	5,000
	06/01/2022 11:20	Barium	Total ug	10.0	327	2,000,000	100,000
	06/01/2022 11:20	Cadmium	Total ug	0.25	0.40	100,000	1,000
	06/01/2022 11:20	Chromium	Total ug	0.50	36.9	1,000,000	5,000
	06/01/2022 11:20	Lead	Total ug	0.25	138	1,000,000	5,000
	06/01/2022 11:20	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:20	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:35	Mercury	Total ug	0.0060	0.020	20,000	200
WS-11	06/01/2022 11:24	Arsenic	Total ug	0.50	2.8	100,000	5,000
	06/01/2022 11:24	Barium	Total ug	10.0	17.5	2,000,000	100,000
	06/01/2022 11:24	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:24	Chromium	Total ug	0.50	2.8	1,000,000	5,000
	06/01/2022 11:24	Lead	Total ug	0.25	11.1	1,000,000	5,000
	06/01/2022 11:24	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:24	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:40	Mercury	Total ug	0.0060	0.0096	20,000	200
WS-12	06/01/2022 11:28	Arsenic	Total ug	5.0	10.3	100,000	5,000
	06/01/2022 11:28	Barium	Total ug	100	261	2,000,000	100,000
	06/01/2022 11:28	Cadmium	Total ug	2.5	8.1	100,000	1,000
	06/01/2022 11:28	Chromium	Total ug	5.0	49.1	1,000,000	5,000
	06/01/2022 11:28	Lead	Total ug	2.5	205	1,000,000	5,000
	06/01/2022 11:28	Selenium	Total ug	17.5	ND	1,000,000	1,000
	06/01/2022 11:28	Silver	Total ug	5.0	ND	1,000,000	5,000
	06/09/2022 08:45	Mercury	Total ug	0.0060	0.022	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SOIL SAMPLES - POST EXCAVATION
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
East	07/20/2022 10:15	Arsenic	mg/kg	0.88	1.0	100	5
	07/20/2022 10:15	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:15	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:15	Chromium	mg/kg	0.88	5.2	100	5
	07/20/2022 10:15	Lead	mg/kg	0.44	26.0	100	5
	07/20/2022 10:15	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:15	Silver	mg/kg	0.88	ND	100	5
	07/20/2022 10:15	Mercury	mg/kg	0.017	ND	20	0.2
Mid*****	07/21/2022 10:30	Arsenic	mg/kg	0.79	1.3	100	5
	07/21/2022 10:30	Barium	mg/kg	15.7	29.2	2000	100
	07/21/2022 10:30	Cadmium	mg/kg	0.39	ND	100	1
	07/21/2022 10:30	Chromium	mg/kg	0.79	13.8	100	5
	07/21/2022 10:30	Lead	mg/kg	0.39	9.3	100	5
	07/21/2022 10:30	Selenium	mg/kg	1.6	ND	100	1
	07/21/2022 10:30	Silver	mg/kg	0.79	ND	100	5
	07/21/2022 10:30	Mercury	mg/kg	0.023	ND	20	0.2
North	07/20/2022 10:35	Arsenic	mg/kg	0.85	1.2	100	5
	07/20/2022 10:35	Barium	mg/kg	16.9	32.9	2000	100
	07/20/2022 10:35	Cadmium	mg/kg	0.42	0.62	100	1
	07/20/2022 10:35	Chromium	mg/kg	0.85	11.8	100	5
	07/20/2022 10:35	Lead	mg/kg	0.42	13.4	100	5
	07/20/2022 10:35	Selenium	mg/kg	1.7	ND	100	1
	07/20/2022 10:35	Silver	mg/kg	0.85	ND	100	5
	07/20/2022 10:35	Mercury	mg/kg	0.020	0.41	20	0.2
South	07/20/2022 10:20	Arsenic	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:20	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:20	Chromium	mg/kg	0.89	2.7	100	5
	07/20/2022 10:20	Lead	mg/kg	0.44	3.3	100	5
	07/20/2022 10:20	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:20	Silver	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Mercury	mg/kg	0.017	ND	20	0.2
West	07/20/2022 10:40	Arsenic	mg/kg	1.2	1.8	100	5
	07/20/2022 10:40	Barium	mg/kg	23.2	26.9	2000	100
	07/20/2022 10:40	Cadmium	mg/kg	0.58	ND	100	1
	07/20/2022 10:40	Chromium	mg/kg	1.2	13.9	100	5
	07/20/2022 10:40	Lead	mg/kg	0.58	32.4	100	5
	07/20/2022 10:40	Selenium	mg/kg	2.3	ND	100	1
	07/20/2022 10:40	Silver	mg/kg	1.2	ND	100	5
	07/20/2022 10:40	Mercury	mg/kg	0.019	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit
4. "*****" denotes incorrect sampling date on chain-of-custody. Sample collected on 7/20/22.

Attachment B.1
Decontamination Data
Sludge Waste to Waste Management dated 11/03/21



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-431		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 223 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge 412892 FL WM Profile #				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name Jim Merrifield		Signature "On behalf of" <i>[Signature]</i>		Month Day Year 11/19/93
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Leron Inc.		Signature <i>[Signature]</i>		Month Day Year 11/10/93
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed/Typed Name		Signature		Month Day Year



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 32431		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Spring Hill Landfill 4945 Hwy 223 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge WM Profile # 412892FL				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name X Jim Merrifield		Signature "On behalf of" X [Signature]		Month Day Year 10/3/08/22
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Thomas Cassidy		Signature [Signature]	
	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name _____ Signature _____ Month Day Year _____			



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-4311		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 273 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge 412892FL WM Profile #				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name X. Simon Meris		Signature "On behalf of" X. Simon Meris		Month Day Year 11/23/02
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature X. Simon Meris		Month Day Year 11/23/02
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name Signature Month Day Year				



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

03/01/22-03/15/22

03/16/2022

8562099-1719-9

How To Contact Us

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Customer Service:
(800) 284-2451

Your Payment Is Due

04/15/2022

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due

\$1,664.48

PAID 6406
\$1,269.77

Previous Balance

394.71

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice
Charges

1,269.77

=

Total Account
Balance Due

1,664.48

DETAILS OF SERVICE

Details for Service Location:

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	03/08/22	871757	1.00	500.00
DISPOSAL CONTAMINATED TONS			8.45	422.50
Ticket Total				922.50
PRORATE MANUAL DEBIT	03/08/22		1.00	20.32
2JS: 03/01-03/07/22				0.00
FUEL/ENVIRONMENTAL CHARGE				289.32
REGULATORY COST RECOVERY CHRG				29.13
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,269.77

Please detach and send the lower section with payment (no cash accepted)

31000 lbs
27.96 TONS



INVOICE

Page 1 of 2

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

12/16/21-12/31/21

01/03/2022

8552447-1719-2

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Customer Service:
(800) 284-2451

Your Payment Is Due**02/02/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,673.66**

*PAID 6376
1-24-22*

Previous Balance

1,561.42

+

Payments

(1,561.42)

+

Adjustments

0.00

+

Current Invoice Charges

1,673.66

=

Total Account Balance Due**1,673.66****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
INACTIVITY CHARGE	12/03/21	M39720	1.00	250.00
20S:11/04-12/03/21				0.00
Ticket Total				250.00
20 YD SPECIAL WASTE	12/30/21	859202	1.00	500.00
LINER			1.00	65.00
DISPOSAL CONTAMINATED TONS			9.42	471.00
Ticket Total				1,036.00
20YD SP WASTE CONTNR SVC CHG After 0 Months	12/16/21		1.00	90.00
FUEL/ENVIRONMENTAL CHARGE				256.37

Please detach and send the invoice with payment. (see back contract)



INVOICE

Customer ID:**25-43670-53005**

Customer Name:

MERRIFIELD RECYCLED OIL (SW)

Service Period:

11/01/21-11/15/21

Invoice Date:

11/16/2021

Invoice Number:

8531729-1719-9

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**12/16/2021**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,902.15**

*PAID 6340
11-28-21*

Previous Balance

488.46

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice Charges

1,413.69

=

Total Account Balance Due**1,902.15****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	11/03/21	848934	1.00	500.00
LINER			1.00	65.00
DISPOSAL PER TON SP WASTE			10.09	403.60
DISPOSAL PER TON SP				0.00
Ticket Total				968.60
FUEL/ENVIRONMENTAL CHARGE				387.78
REGULATORY COST RECOVERY CHRG				48.81
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,413.69



Credit Card

EZ Profile™

Requested Facility: Springhill Landfill ☐ Unsure Profile Number: 412892FL

☐ Multiple Generator Locations (Attach Locations) ☒ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Merrifield Recycled Oil
2. Generator Site Address: 3053 Barnes Lane
(City, State, ZIP) Cottondale FL 32431
3. County: Jackson
4. Contact Name: Jim Merrifield
5. Email: tdsmro@msn.com
6. Phone: (850) 209-2336 7. Fax: _____
8. Generator EPA ID: FLD981-752-041 ☐ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Nonhaz Oil/Water Separator Sludge

Describe Process(es) Generating Material: ☐ See Attached

Treatment of water contaminated with oil associated with external vehicle wash and parking lot drainage. Does not include oil/water sludge from industrial processes.

2. Material Composition and Contaminants: ☐ See Attached

1. <u>Oil/sludge/wastewater</u>	<u>100 %</u>
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <u>≥100%</u>	

3. State Waste Codes: _____ ☒ N/A

4. Color: Various

5. Physical State at 70°F: ☐ Solid ☐ Liquid ☒ Other: Sludge

6. Free Liquid Range Percentage: _____ to _____ ☒ N/A

7. pH: _____ to _____ ☒ N/A

8. Strong Odor: ☐ Yes ☒ No Describe: _____

9. Flash Point: ☐ <140°F ☐ 140°–199°F ☒ ≥200° ☐ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☒ Yes

Please identify applicable samples and/or lab reports:

page 4

2. Other information attached (such as MSDS)? ☐ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☐ I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Jim Merrifield Date: 08/04/2021

Title: Owner

Company: J. E. Merrifield, Inc dba Merrifield Recycled oil

B. BILLING INFORMATION

☐ SAME AS GENERATOR

1. Billing Name: J. E. Merrifield, Inc.
2. Billing Address: PO Box 550
(City, State, ZIP) Cottondale FL 32431
3. Contact Name: Jim Merrifield
4. Email: tdsmro@msn.com
5. Phone: (850) 209-2336 6. Fax: _____
7. WM Hauled? ☒ Yes ☐ No
8. P.O. Number: _____
9. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No

Code: _____

2. State Hazardous Waste? ☐ Yes ☒ No

Code: _____

3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No

4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No

5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☒ No

6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No

7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No

8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☒ No

*If Yes, see Addendum (page 2) for additional questions and space.

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No

a. Regulated by 40 CFR 761? ☐ Yes ☐ No

b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No

c. Were PCB imported into the US? ☐ Yes ☐ No

10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No

11. Contains Asbestos? ☐ Yes ☒ No

→ If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

F. SHIPPING AND DOT INFORMATION

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business

2. Estimated Quantity/Unit of Measure: 40

☐ Tons ☒ Yards ☐ Drums ☐ Gallons ☐ Other: _____

3. Container Type and Size: 40 yard roll-off

4. USDOT Proper Shipping Name: ☒ N/A

Certification Signature

Jim Merrifield

THINK GREEN®

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE Revised November 06, 2020 © 2020 WM Intellectual Property Holdings, L.L.C.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(base report)

WO#: 21070781

Date Reported: 7/22/2021

CLIENT: Merrifield Recycled Oil
Matrix: SLUDGE
Lab ID: 21070781-001A
Project:
Client Sample ID MRO #1

Tag Number:
Collection Date: 7/7/2021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS						
				SW7470A	SW7470A	Analyst: JEB
TCLP MERCURY ANALYSIS (SW1311/7470)						
TCLP Mercury	ND	0.0100		mg/L	1	7/20/2021 7:09:00 PM
TCLP METALS						
				SW6010	SW3010A	Analyst: MSK
TCLP METALS ANALYSIS (SW1311/6010)						
TCLP Arsenic(As)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Barium(Ba)	ND	12.5		mg/L	1	7/21/2021 12:01:00 PM
TCLP Cadmium(Cd)	ND	0.250		mg/L	1	7/21/2021 12:01:00 PM
TCLP Chromium(Cr)	ND	0.500		mg/L	1	7/21/2021 12:01:00 PM
TCLP Lead(Pb)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Selenium(Se)	ND	0.125		mg/L	1	7/21/2021 12:01:00 PM
TCLP Silver(Ag)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
PCB ANALYSIS						
				SW8082		Analyst: PGP
PCB ANALYSIS FOR OILS (8082)						
Aroclor 1016	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1221	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1232	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1242	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1248	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1254	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1260	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Total PCBs	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Surr: TCMX	105	67.8 - 130		%Rec	1	7/17/2021 4:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OGI	
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 210716C

Sample ID: 21070975-001AMS	SampType: MS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130720						
Client ID: BatchQC	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	18.1	1.00	20.00	0	90.5	55.8	130				
Aroclor 1260	19.2	1.00	20.00	0	96.2	67.4	130				
Total PCBs	37.4	1.00	40.01	0	93.4	64.7	130				
Surr: TCMX	3.76		4.370		85.9	68.2	136				

Sample ID: 21070975-001AMSD		SampType: MSD	TestCode: PCB_OIL(808			Units: ppm	Prep Date:			RunNo: 130720		
Client ID: BatchQC		Batch ID: 210716C		TestNo: SW8082			Analysis Date: 7/17/2021			SeqNo: 3458623		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aroclor 1016	14.5	1.00	20.00	0	72.7	55.8	130	18.11	21.9	30		
Aroclor 1260	19.2	1.00	20.00	0	96.1	67.4	130	19.25	0.125	30		
Total PCBs	33.8	1.00	40.01	0	84.4	64.7	130	37.36	10.1	30		
Surr: TCMX	3.77		4.370		86.2	68.2	136		0			

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analy
	J Analyte detected below quantitation limits	M Manual Integration used to determine area response	MC Value is below Minimum Compound
	ND Not Detected	OG1	P Second column confirmation exceeds
	PL Permit Limit	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil
Project:

BatchID: 210716C

Sample ID: MB-210716C	SampType: MBLK	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: PBW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 1.00	1.00		0	0						
Aroclor 1221	< 1.00	1.00		0	0						
Aroclor 1232	< 1.00	1.00		0	0						
Aroclor 1242	< 1.00	1.00		0	0						
Aroclor 1248	< 1.00	1.00		0	0						
Aroclor 1254	< 1.00	1.00		0	0						
Aroclor 1260	< 1.00	1.00		0	0						
Total PCBs	< 1.00	1.00		0	0						
Surr: TCMX	3.88		4.370		88.7	20	152				

Sample ID: LCS-210716C	SampType: LCS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: LCSW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	19.5	1.00	20.00	0	97.6	40.4	130				
Aroclor 1260	21.3	1.00	20.00	0	107	58.9	130				
Total PCBs	40.8	1.00	40.01	0	102	44.1	130				
Surr: TCMX	4.09		4.370		93.6	67.8	130				

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original

QC SUMMARY REPORT

WO#: 210707B1

22-Jul-21

Client: Metrol Engineering

BatchID: 50818

Project:

Sample ID: MB-50818	Sample Type: IE 18	Test Date: 7/20/2021	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: PBS	Batch ID: 10418	Lab No: 507470A	BW7470A	Analysis Date: 7/20/2021	SeqNo: 3463112						
Analyte	Result	RPD	RPD Limit	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	81.5	80	120				

Sample ID: LCS-50818	Sample Type: IE 18	Test Date: 7/20/2021	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: LCS8	Batch ID: 10418	Lab No: 507470A	BW7470A	Analysis Date: 7/20/2021	SeqNo: 3463113						
Analyte	Result	RPD	RPD Limit	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	81.5	80	120				

Sample ID: 21071001-IE 18	Sample Type: IE 18	Test Date: 7/20/2021	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: Batch01	Batch ID: 10418	Lab No: 507470A	BW7470A	Analysis Date: 7/20/2021	SeqNo: 3463125						
Analyte	Result	RPD	RPD Limit	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	0	75	125				S

Sample ID: 21071001-IE 18	Sample Type: IE 18	Test Date: 7/20/2021	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: Batch01	Batch ID: 10418	Lab No: 507470A	BW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	RPD	RPD Limit	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.0000	0.0000	0.0000	0	0	75	125	0	0	20	S

Qualifiers: B - Sample Below Detection Limit
 J - Sample Below Reporting Limit
 ND - Not Detected
 PL - Sample Above Reporting Limit
 3 - Sample outside quantitation range
 2 - Sample used to determine area response
 0 - Sample not accepted recovery limits
 H - Holding times for preparation or analysis
 MC - Value is below Minimum Compound
 P - Second column confirmation exceeds
 RL - Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781

22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 50818

Sample ID: 21071006-010AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 50818	TestNo: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Attachment B.2
Decontamination Data
Sludge Waste to Waste Management dated 12/30/21



Credit Card

EZ Profile™

Requested Facility: Springhill Landfill ☐ Unsure Profile Number: 412892FL
☐ Multiple Generator Locations (Attach Locations) ☒ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Merrifield Recycled Oil
2. Generator Site Address: 3053 Barnes Lane
(City, State, ZIP) Cottondale FL 32431
3. County: Jackson
4. Contact Name: Jim Merrifield
5. Email: tdsmro@msn.com
6. Phone: (850) 209-2336 7. Fax: _____
8. Generator EPA ID: FLD981-752-041 ☐ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Nonhaz Oil/Water Separator Sludge

Describe Process(es) Generating Material: ☐ See Attached

Treatment of water contaminated with oil associated with external vehicle wash and parking lot drainage. Does not include oil/water sludge from industrial processes.

2. Material Composition and Contaminants: ☐ See Attached

1. Oily sludge/wastewater	100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <u>≥100%</u>	

3. State Waste Codes: _____ ☒ N/A

4. Color: Various

5. Physical State at 70°F: ☐ Solid ☐ Liquid ☒ Other: Sludge

6. Free Liquid Range Percentage: _____ to _____ ☒ N/A

7. pH: _____ to _____ ☒ N/A

8. Strong Odor: ☐ Yes ☒ No Describe: _____

9. Flash Point: ☐ <140°F ☐ 140°-199°F ☒ ≥200° ☐ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☒ Yes

Please identify applicable samples and/or lab reports:

page 4

2. Other information attached (such as MSDS)? ☐ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☐ I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Jim Merrifield Date: 08/04/2021

Title: Owner

Company: J. E. Merrifield, Inc dba Merrifield Recycled oil

B. BILLING INFORMATION

☐ SAME AS GENERATOR

1. Billing Name: J. E. Merrifield, Inc.

2. Billing Address: PO Box 550

(City, State, ZIP) Cottondale FL 32431

3. Contact Name: Jim Merrifield

4. Email: tdsmro@msn.com

5. Phone: (850) 209-2336 6. Fax: _____

7. WM Hauled? ☒ Yes ☐ No

8. P.O. Number: _____

9. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No

Code: _____

2. State Hazardous Waste? ☐ Yes ☒ No

Code: _____

3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No

4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No

5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☒ No

6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No

7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No

8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☒ No

*If Yes, see Addendum (page 2) for additional questions and space.

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No

a. Regulated by 40 CFR 761? ☐ Yes ☐ No

b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No

c. Were PCB imported into the US? ☐ Yes ☐ No

10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No

11. Contains Asbestos? ☐ Yes ☒ No

→ If Yes: ☐ Non-Friable ☐ Non-Friable - Regulated ☐ Friable

F. SHIPPING AND DOT INFORMATION

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business

2. Estimated Quantity/Unit of Measure: 40

☐ Tons ☒ Yards ☐ Drums ☐ Gallons ☐ Other: _____

3. Container Type and Size: 40 yard roll-off

4. USDOT Proper Shipping Name: ☒ N/A

Certification Signature

Jim Merrifield

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE Revised November 06, 2020 © 2020 WM Intellectual Property Holdings, L.L.C.



INVOICE

Customer ID:**25-43670-53005****Customer Name:****MERRIFIELD RECYCLED OIL (SW)****Service Period:****03/01/22-03/15/22****Invoice Date:****03/16/2022****Invoice Number:****8562099-1719-9****How To Contact Us****Visit wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**04/15/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,664.48**

PAID 6406
\$1,269.77

Previous Balance	+	Payments	+	Adjustments	+	Current Invoice Charges	=	Total Account Balance Due
394.71		0.00		0.00		1,269.77		1,664.48

Details for Service Location:**Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111****Customer ID: 25-43670-53005**

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	03/08/22	871757	1.00	500.00
DISPOSAL CONTAMINATED TONS			8.45	422.50
Ticket Total				922.50
PRORATE MANUAL DEBIT	03/08/22		1.00	20.32
2JS: 03/01-03/07/22				0.00
FUEL/ENVIRONMENTAL CHARGE				289.32
REGULATORY COST RECOVERY CHR				29.13
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,269.77

Please detach and send the lower portion with payment (no cash payment)



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

12/16/21-12/31/21

01/03/2022

8552447-1719-2

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**02/02/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,673.66**

*PAID 6376
1-24-22*

Previous Balance

1,561.42

+

Payments

(1,561.42)

+

Adjustments

0.00

+

Current Invoice Charges

1,673.66

=

Total Account Balance Due**1,673.66****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
INACTIVITY CHARGE	12/03/21	M39720	1.00	250.00
20S:11/04-12/03/21				0.00
Ticket Total				250.00
20 YD SPECIAL WASTE	12/30/21	859202	1.00	500.00
LINER			1.00	65.00
DISPOSAL CONTAMINATED TONS			9.42	471.00
Ticket Total				1,036.00
20YD SP WASTE CONTNR SVC CHG After 0 Months	12/16/21		1.00	90.00
FUEL/ENVIRONMENTAL CHARGE				256.37

Please detach and send the invoice with payment (see back for details)



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

11/01/21-11/15/21

11/16/2021

8531729-1719-9

How To Contact Us**Visit wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**12/16/2021**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,902.15**

*PACK 6340
11-28-21*

Previous Balance

488.46

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice Charges

1,413.69

=

Total Account Balance Due**1,902.15****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	11/03/21	848934	1.00	500.00
LINER			1.00	65.00
DISPOSAL PER TON SP WASTE			10.09	403.60
DISPOSAL PER TON SP				0.00
Ticket Total				968.60
FUEL/ENVIRONMENTAL CHARGE				387.78
REGULATORY COST RECOVERY CHRG				48.81
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,413.69



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page of	1	
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottontale, TN 32431				A. Manifest Number WMNA 10720803		
4. Generator's Phone 750 2092336				B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield				C. State Transporter's ID		
6. US EPA ID Number 1502092336				D. Transporter's Phone		
7. Transporter 2 Company Name				E. State Transporter's ID		
8. US EPA ID Number				F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 273 Campbellton, TN 32426				G. State Facility's ID		
10. US EPA ID Number				H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. oily sludge WM Profile # 412892FL						
b. WM Profile #						
c. WM Profile #						
d. WM Profile #						
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Soil Remediation ☐				K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____						
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.						
Printed/Typed Name J E Merrifield				Signature "On behalf of" <i>[Signature]</i>		Month Day Year 11/23/02
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name _____				Signature <i>[Signature]</i>		Month Day Year 11/23/02
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name _____				Signature _____		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name _____				Signature _____		Month Day Year



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottontale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		6. US EPA ID Number 8502092336		C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone
9. Designated Facility Name and Site Address Spring Hill Landfill 4945 Hwy 273 Campbellton, IL 32426		10. US EPA ID Number		E. State Transporter's ID
				F. Transporter's Phone
				G. State Facility's ID
				H. Facility's Phone
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge WM Profile # 412892FL		Type		
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name Jim Merrifield		Signature <i>[Signature]</i>		Month Day Year 11/19/31
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed/Typed Name Leron Inge	Signature <i>[Signature]</i>	Month Day Year 11/19/31	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed/Typed Name	Signature	Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed/Typed Name		Signature		Month Day Year



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottendale, IL 32431				A. Manifest Number WMNA 10720803			
4. Generator's Phone 32431				B. State Generator's ID			
5. Transporter 1 Company Name J E Merrifield				6. US EPA ID Number 8502092336		C. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 223 Campbellton, IL 32426				10. US EPA ID Number		E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility's ID	
						H. Facility's Phone	
11. Description of Waste Materials				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. oily sludge 412892 FL WM Profile #							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ☒ Landfill ☐ Solidification ☐ Bio Remediation				K. Disposal Location Cell Level Grid			
15. Special Handling Instructions and Additional Information Purchase Order # EMERGENCY CONTACT:							
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.							
Printed/Typed Name X Jim Merrifield				Signature "On behalf of" X [Signature]		Month Day Year 10/30/82	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Thomas Cassidy				Signature [Signature]		Month Day Year 10/30/82	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name Signature Month Day Year							

Attachment B.3
Decontamination Data
Rinse Water to Oil Recovery, Inc.



Non-Hazardous
WASTE MANIFEST - INVOICE

272 Powell Street - Camilla, Georgia 31730
GA, FL, AL EPA # GAR000054460

Nº 0048608

SHIPPED TO: OIL RECOVERY, INC.		RECEIVED FROM: JE Merrifield / Merrifield Oil	
ADDRESS: 272 POWELL STREET		ADDRESS: 3053 Barnes Ln	
CITY, STATE, ZIP: CAMILLA, GEORGIA 31730		CITY, STATE, ZIP: Cottondale, FL 32431	
DATE: 6-20-00	SOLD BY:	TERMS:	

Waste Water <u>4200</u>	Gross Gallons <u>4200</u>	CHLORINATED SOLVENTS	
Used Oil Filters _____	Less B S & W <u>-</u>	☐ DETECTED	☒ NON-DETECTED
Oil Type <u>PCW</u>	End Use Code <u>-</u>		
Source Code _____	Net Gallons <u>4200</u>	Rate <u>1.00</u> x <u>4200</u> = <u>\$4200.00</u>	Total Due
		Per Gallon	Net Gallons

NOTES: Pd - Trade for 6,200 gal Urtha Tanks

SIGNED: [Signature]

Attachment B.4
Decontamination Data
Excavated Soil to Waste Management



Springhill Landfill Waste Management
4945 Highway 273
Campbellton, FL, 32426
Ph: 850-263-5953

Original
Ticket# 1215156

Customer Name CASHCUSTOMER CASH CUSTOMER Carrier PANHANDLEHAULING PANHANDLE HAULING
Address 4945 HIGHWAY 273
CAMPBELLTON, FL, 32426

Ticket Date 07/28/2022 Vehicle# 800 Volume
Payment Type Credit Card Container
Manual Ticket# Driver
Hauling Ticket# Check# C
Route Billing # 0000006
State Waste Code Gen EPA ID NR
Manifest XXXX
Destination
PO
Profile 412892FL (NONHAZ OIL/WATER SEPARATOR SLUDGE (WM002A))
Generator 149-MERRIFIELD MERRIFIELD RECYC

	Time	Scale	Operator	Inbound	Gross	
In	07/28/2022 10:38:22	Scale1	PALEN		28620 lb	
Out	07/28/2022 10:57:14	Scale1	PALEN		40580 lb	
					Net	20.29

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 NONHAZ OIL/WATER S	100	20.29	Tons	40.00		\$811.60	JACKSON, F
2 EVF-P-Standard Env	100		%	20.00		\$162.32	
3 FUEL-Fuel Surcharg	100		%	12.96		\$105.18	
4 RCR-P-Regulatory C	100		%	3.60		\$29.22	
5 WWM-P-Waste Water	100		%	11.10		\$90.09	

Total Fees
Total Ticket \$1198.41

Driver's Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: J.E. MERRIFIELD, INC. P.O. BOX 550 COTTONDALE, FL 32431				Generator's Site Address (if different than mailing): MERRIFIELD RECYCLING OIL 3053 BARNES LANE COTTONDALE, FL 32431		A. Manifest Number WMNA		
4. Generator's Phone 850-209-2336						B. State Generator's ID		
5. Transporter 1 Company Name <i>Pay handle Hauling</i>				6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name <i>800</i>				8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Regional Landfill 4945 Highway 273 Campbellton, FL 32326				10. US EPA ID Number 0630045 - 006AV		E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility ID		
						H. State Facility Phone 850.263.7100		
11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
				No.	Type			
GENERATOR	a. NONHAZ OIL/WATER SEPARATOR SLUDGE <i>Oil & Dirt</i>							
	WM Profile # 412892FL							
	b.							
	WM Profile # <i>1</i>							
	c.							
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above				K. Disposal Location				
				Cell		Level		
				Grid				
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Jim Merrifield</i>				Signature <i>Jim Merrifield</i>		Month <i>7</i>	Day <i>23</i>	Year <i>22</i>
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed Name <i>Ronald G. Pless</i>		Signature <i>Ronald G. Pless</i>		Month <i>7</i>	Day <i>23</i>	Year <i>22</i>	
	18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature		Month	Day	Year		
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>John A. Baker</i>		Signature <i>John A. Baker</i>		Month <i>7</i>	Day <i>25</i>	Year <i>22</i>		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY.

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Profile Amendment Request Form

Jim Merrifield

(Contact Name)

hereby requests an amendment to WMI profile #: 412892FL

to include the following:

Amendment Type: ☐ One Time Only Request (Event) ☒ Permanent Addition to Profile (Base)

☐ Additional Analytical/MSDS to be added to profile (see attached)

☒ Volume Increase (specify volume) 20 ☒ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify) _____

☒ Constituent(s) to be added and/or modify current range in chemical composition:

Chemicals or constituents to be added/modify	Low	High	Units
<u>oil soil</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Change current ranges on profile (specify below)

pH Range _____ to _____ Free Liquid Range _____ to _____

☐ Other (specify) _____

GENERATOR CERTIFICATION

By signing this form, the Generator hereby certifies:

The information provided in this document, the referenced Waste Management Generator's Waste Profile Sheet, and all other referenced documents contain true and accurate descriptions of the waste material. All information regarding known or suspected hazards in the possession of the Generator has been disclosed.

Generator/Customer Signature: Jim Merrifield

Date: 7-18-22

Company Name: Merrifield Recycled Oil

Name (Print): Jim Merrifield

Title: Owner

FOR WASTE MANAGEMENT USE ONLY

Submitted By: _____ Date: _____ Time: _____
(W.M. Initials)

WM Approval: _____ Date: _____

Agency Approval Required: ☐ Yes ☐ No

☐ Profile Extension

☐ Analytical Extension

Original Expiration Date _____

Analytical Due Date _____

Requested Extension _____

Requested Extension _____

New Expiration Date _____

New Analytical Due Date _____

Conditions/Precautions: _____

Attachment C.1
Final Closure Activities
Weight of Metal Scrap Sold

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/07/22
Check No: 149246

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZCSGP	05/07/22	#1 & #2 HMS Prepared	13760	9160	4600	TANF250	12.1300 CW	0.00	557.98
TZCSGP	05/07/22	FACILITY FEE - FER	9160	9160	0	TANF250	-6.16 *	0.00	-6.16

VENDOR CP084P TOTALS (Pounds):

4600

TOTAL DUE: \$ 551.82

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/09/22
Check No: 149254

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZCTNV	05/09/22	#1 & #2 HMS Unprepared	14180	9200	4980	TAN F-250	10.1300 CW	0.00	504.47
TZCTNV	05/09/22	FACILITY FEE - FER	9200	9200	0	TAN F-250	-6.67 *	0.00	-6.67

VENDOR CP084P TOTALS (Pounds):

4980

TOTAL DUE: \$ 497.80

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/09/22
Check No: 149259

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZCWBM	05/09/22	#1 & #2 HMS Unprepared	15180	9260	5920	TAN F-250	10.1300 CW	0.00	599.70
TZCWBM	05/09/22	FACILITY FEE - FER	9260	9260	0	TAN F-250	-7.93 *	0.00	-7.93

VENDOR CP084P TOTALS (Pounds):

5920

TOTAL DUE: \$ 591.77

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/10/22
Check No: 149271

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZCZKH	05/10/22	#1 & #2 HMS Unprepared	14500	8880	5620	TAN F-250	10.1300 CW	0.00	569.31
TZCZKH	05/10/22	FACILITY FEE - FER	8880	8880	0	TAN F-250	-7.53 *	0.00	-7.53

VENDOR CP084P TOTALS (Pounds):

5620

TOTAL DUE: \$ 561.78

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/10/22
Check No: 149277

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZDBBW	05/10/22	#1 & #2 HMS Unprepared	31720	15000	16720	WHT FLTBED	10.1300 CW	0.00	1693.74
TZDBBW	05/10/22	FACILITY FEE - FER	15000	15000	0	WHT FLTBED	-22.39 *	0.00	-22.39

VENDOR CP084P TOTALS (Pounds):

16720

TOTAL DUE: \$ 1671.35

Metal

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/20/22
Check No: 149408

TICKET#	SHF DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZERFQ	05/20/22	#1 & #2 HMS Unprepared	13380	9960	3420	tan f-250	10.1300 CW	0.00	346.45
TZERFQ	05/20/22	FACILITY FEE - FER	9960	9960	0	tan f-250	-4.58 *	0.00	-4.58
VENDOR CP084P TOTALS (Pounds):					3420	TOTAL DUE: \$ 341.87			

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/24/22
Check No: 149447

TICKET#	SHF DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZFCNE	05/24/22	#1 & #2 HMS Unprepared	14980	9960	5020	TAN FORD	9.1300 CW	0.00	458.33
TZFCNE	05/24/22	FACILITY FEE - FER	9960	9960	0	TAN FORD	-6.72 *	0.00	-6.72
VENDOR CP084P TOTALS (Pounds):					5020	TOTAL DUE: \$ 451.61			

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 06/21/22
Check No: 149761

TICKET#	SHF DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZJBIC	06/21/22	#1 & #2 HMS Unprepared	14120	9980	4140	TAN F-250	6.1300 CW	0.00	253.78
TZJBIC	06/21/22	FACILITY FEE - FER	9980	9980	0	TAN F-250	-5.54 *	0.00	-5.54
VENDOR CP084P TOTALS (Pounds):					4140	TOTAL DUE: \$ 248.24			

Attachment C.2
Final Closure Activities
Completed Closure Activities Schedule

Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/27/2022

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Complete
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	5/5/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
10	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	5/23/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
11	The concrete containment area where tank #3-4 are located on the facility map will be removed. The soil below the containment area that shows signs of petroleum staining will be excavated.	6/27/2022	7/11/2022	Complete
12	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. A soil sample will be taken underneath the removed containment area. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	7/15/2022	7/15/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
13	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	8/15/2022	8/31/2022	Complete

Attachment C.3
Final Closure Activities
FDEP Inspection

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 08/30/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
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Remarks	
Activity: FDEP Inspection	
FDEP Environmental Specialist Corinna Clanton inspected the site.	
All closure activities have been completed.	
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Tuesday
Visitors: ☒ No ☐ Yes	

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 10:00 a.m.	TO: 11:00 a.m.	1 hours

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 08/30/2022

Site Visit Pictures 08/30/2022



Figure 1 Site Area



Figure 2 Site Area



Figure 3 FDEP Inspecting Site Area



Figure 4 FDEP Inspecting Site Area



Figure 5 Site Area

Attachment D.1
Monthly Closure Reports
February 21, 2022

Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
2/21/2022

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached prior to activities site plan and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	4/1/2022	In progress
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	4/1/2022	4/1/2022	Not Started
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Not Started
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	4/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
2/21/2022**

9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	4/1/2022	4/1/2022	Not Started
10	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	3/1/2022	4/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
2/21/2022**

11	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	4/1/2022	Boiler has been drained and dried. Samples have not yet been taken.
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**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
2/21/2022**

12	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	5/1/2022	5/1/2022	Not Started
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Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.seftek.com>

Analytical Report

(base report)

WO#: 21070781

Date Reported: 7/22/2021

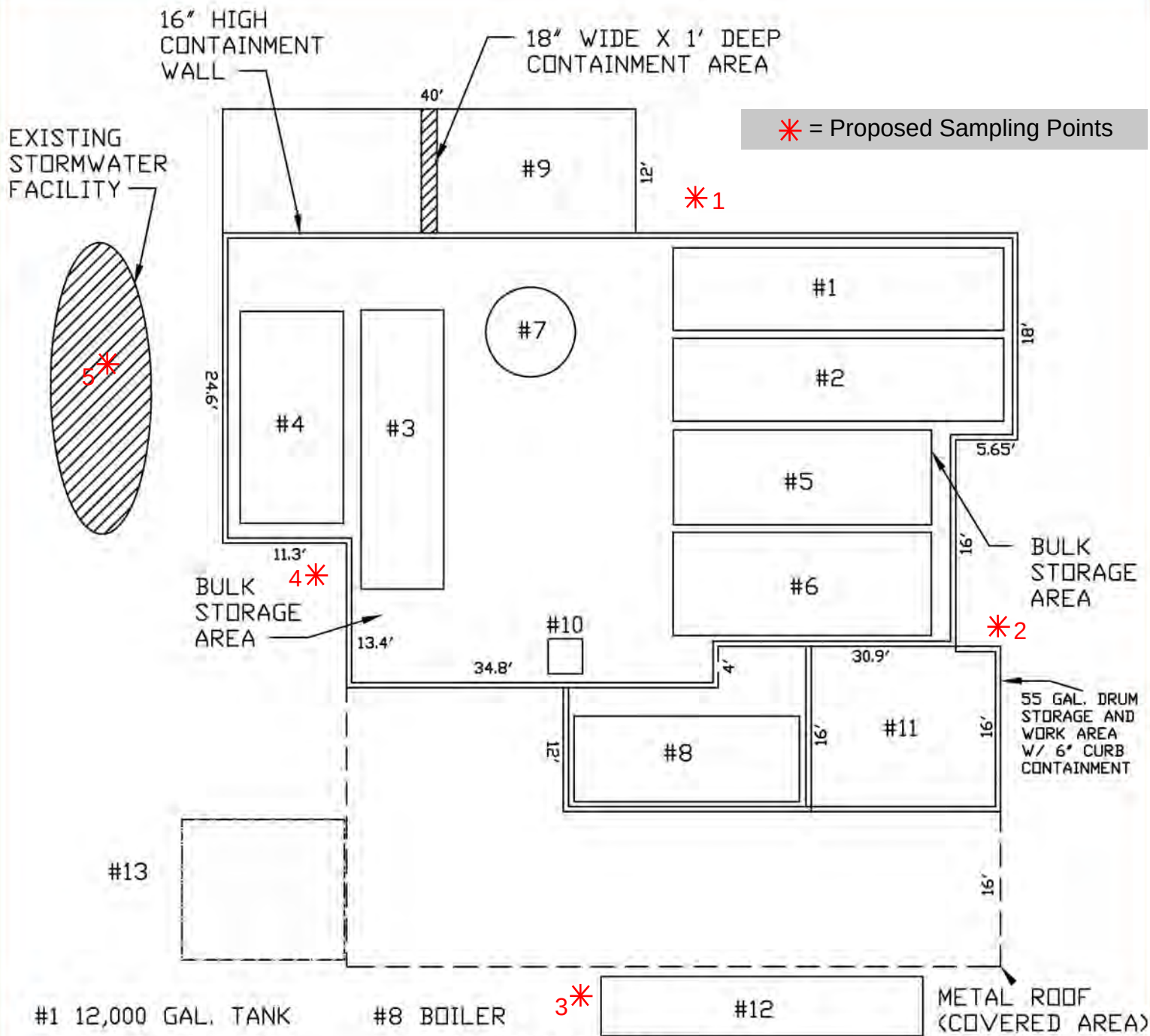
CLIENT: Merrifield Recycled Oil
Matrix: SLUDGE
Lab ID: 21070781-001A
Project:
Client Sample ID MRO #1

Tag Number:
Collection Date: 7/7/2021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS						
TCLP MERCURY ANALYSIS (SW1311/7470)						
TCLP Mercury	ND	0.0100		mg/L	1	7/20/2021 7:09:00 PM
TCLP METALS						
TCLP METALS ANALYSIS (SW1311/6010)						
TCLP Arsenic(As)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Barium(Ba)	ND	12.5		mg/L	1	7/21/2021 12:01:00 PM
TCLP Cadmium(Cd)	ND	0.250		mg/L	1	7/21/2021 12:01:00 PM
TCLP Chromium(Cr)	ND	0.500		mg/L	1	7/21/2021 12:01:00 PM
TCLP Lead(Pb)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Selenium(Se)	ND	0.125		mg/L	1	7/21/2021 12:01:00 PM
TCLP Silver(Ag)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
PCB ANALYSIS						
PCB ANALYSIS FOR OILS (8082)						
Aroclor 1016	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1221	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1232	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1242	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1248	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1254	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1260	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Total PCBs	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Surr: TCMX	105	67.8 - 130		%Rec	1	7/17/2021 4:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OGI	
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



#1 12,000 GAL. TANK
 #2 12,000 GAL. TANK
 #3 10,000 GAL. TANK
 #4 11,000 GAL. TANK
 #5 15,000 GAL. TANK
 #6 13,000 GAL. TANK
 #7 PUMP, METER
 & FILTER

#8 BOILER
 #9 LOAD-UNLOAD DOCK
 #10 250 GAL. WATER TANK
 #11 DRUM STORAGE AREA
 #12 PORTABLE TANKER (EMERGENCY STORAGE)
 #13 GRAVEL LOADING DOCK

0 N.T.S.
 SCALE

DAVID H. MELVIN, INC.
 Consulting Engineers

MARIANNA
 4428 LAFAYETTE STREET
 MARIANNA, FLORIDA 32446
 Phone: 850.482.3045
 Fax: 850.482.3957

EB-0005637

LC-0000277

TALLAHASSEE
 2541-1 BARRINGTON CIRCLE
 TALLAHASSEE, FLORIDA 32308
 Phone: 850.671.7221
 Fax: 850.671.7223

CLIENT
 JIM MERRIFIELD

JOB NO.
 MER170IL

SHEET NO.
 1 of 4

PROJECT

MERRIFIELD

SHEET TITLE

SITE LAYOUT

Merrifield Recycled Oil
2017 Permit Renewal
Photo Summary



Secured Entrance to MRO, Inc.



Storage Tanks within Containment Area

Merrifield Recycled Oil
2017 Permit Renewal
Photo Summary



Storage Tanks within Containment Area



Storage Drums

Merrifield Recycled Oil
2017 Permit Renewal
Photo Summary



Boiler Unit



Merrifield Recycled Oil
2017 Permit Renewal
Photo Summary



Load/Unload Area (2,400-gallon tanker for used oil pickup)



6,400 gallon tanker used for delivery of processed oil and as emergency storage

Merrifield Recycled Oil
2017 Permit Renewal
Photo Summary



Fire Extinguishers located in various locations



Attachment D.2
Monthly Closure Reports
March 25, 2022

Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
3/25/2022

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Not Started
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	4/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
3/25/2022**

9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	4/1/2022	4/1/2022	Not Started
10	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	3/1/2022	4/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
3/25/2022**

11	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	4/1/2022	Boiler has been drained and dried. Samples have not yet been taken.
----	---	----------	----------	---

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
3/25/2022**

12	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	5/1/2022	5/1/2022	Not Started
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DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 02/28/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
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Remarks		
Activity: Sludge removal from tanks		
A hard copy of the DHM and SES Scope of Work and Agreements were handed to Jim Merrifield		
Sludge was removed from all 6 tanks by the end of day		
Scraping tanks will begin 03/01/2022		
Rinsing tanks will begin 03/01/2022. The rise water will be stored in tanker truck that was used to transport used oil.		
The rinse water will be shipped to Oil Recovery in Camilla, Georgia		
Eric with SES has requested a copy of the waste profile and waste manifest of sludge removal. These documents will be given to Jim Merrifield by Waste Management		
Jim Merrifield will contact Destinee Wiggins before sludge is picked up by Waste Management		
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Monday	Total Days: 1
Visitors: ☒ No ☐ Yes		

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 4:00 p.m.	TO: 5:00 p.m.	1 hour

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE:

Site Visit Pictures 02/28/2022



Figure 1: Tanks 1, 2, and 3



Figure 2: Tanks 2, 3, and side of boiler



Figure 3: Inside of Tank 2



Figure 4: Waste Management roll off container



Figure 5: Sludge from Tanks 1-6 contained in Waste Management's roll off container



Figure 6: Tanker being used to contain rinse water

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 03/08/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
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Remarks		
Activity: Rinsing & scraping tanks		
Jim Merrifield rented a steam cleaner to clean the inside of the tanks.		
All the wastewater is being pumped into the used oil tanker truck.		
The rinse water will be shipped to Oil Recovery in Camilla, Georgia		
DEP will be noticed at least one week prior to cutting up tanks.		
Jim Merrifield will give Destinee Wiggins the waste profile and waste manifest for each waste bin once he receives the final documents.		
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Tuesday	Total Days: 8
Visitors: ☒ No ☐ Yes		

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 4:00 p.m.	TO: 5:00 p.m.	1 hour

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 03/08/2022

Site Visit Pictures 03/08/2022



Figure 1: Inside Tank 1 after steam clean



Figure 2: Tank 1



Figure 3: Tanks 3, 4, and tanker truck



Figure 4: Steam Cleaner



Figure 5: Tank 1 with steam cleaner setup



Figure 6: Rinse water drains through pipe to concrete storage area, then to pump located in storm drain area, and finally to tanker truck



Figure 7: Rinse water drain area



Figure 8: Rinse water drains from concrete storage area to the pump located in stormwater area



Figure 9: Rinse water drains to storm pond area where it is pumped to tanker truck



Figure 10: Pump



Figure 11: Tanker truck



Figure 12: Rinse water drains to here where it is pumped to tanker



Figure 13: The area that the rinse water drains



Figure 14: Tanker and pump

Attachment D.3
Monthly Closure Reports
May 03, 2022

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/3/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Complete
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	6/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/3/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	6/1/2022	6/1/2022	Not Started
10	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	5/23/2022	5/23/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/3/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
11	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	5/23/2022	Boiler has been drained and dried. Samples have not yet been taken.

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/3/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
12	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	7/1/2022	7/8/2022	Not Started

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 04/05/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
---------------------	----------------------------	--------------------------------

Remarks		
Activity: Cutting up tanks		
Jim Merrifield used a blow torch to cut up the metal tanks.		
Once the tanks are removed the containment area will be thoroughly cleaned.		
The wastewater generated from cleaning the tanks and the containment area will be shipped off after the containment area has been cleaned.		
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Tuesday	Total Days: 36
Visitors: ☒ No ☐ Yes		

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 4:00 p.m.	TO: 5:00 p.m.	1 hour

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 04/05/2022

Site Visit Pictures 04/05/2022



Figure 1: Cut tank



Figure 2: Cut tank



Figure 3: Cut tank



Figure 4:Cut tank



Figure 5: Containment area



Figure 6: Containment area where tank #1 was previously located



Figure 7: Process of cutting Tank #2



Figure 8:Interior of Tank #2



Figure 9: Blow torch



Figure 10: Cut tank



Figure 11: Scrap metal from cut tank



Figure 12: Cut tank

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 04/15/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
---------------------	----------------------------	--------------------------------

Remarks		
Activity: Cutting up tanks		
Jim Merrifield used a blow torch to cut up the metal tanks.		
Once the tanks are removed the containment area will be thoroughly cleaned.		
The wastewater generated from cleaning the tanks and the containment area will be shipped off after the containment area has been cleaned.		
Jim Merrifield gave Destinee Wiggins the waste manifest, invoice, profile, analytical report, and QC summary report for all sludge that was sent to Waste Management from Merrifield Recycled Oil Facility.		
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Friday	Total Days: 46
Visitors: ☒ No ☐ Yes		

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 4:00 p.m.	TO: 5:00 p.m.	1 hour

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 04/15/2022

Site Visit Pictures 04/15/2022



Figure 1: Cut tanks



Figure 2: Tank #3 and Tank #4



Figure 3: Containment area



Figure 4: Cut tanks



Figure 5: Scrap metal from cut tanks



Figure 6: Containment area



Figure 7: Containment area

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 04/29/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
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Remarks		
Activity: Cutting up tanks		
All tanks are all cut up. Many pieces of scrap metal are placed around the perimeter. The scrap metal will be hauled to an appropriate facility.		
The concrete slab needs to be thoroughly cleaned.		
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Friday	Total Days: 60
Visitors: ☒ No ☐ Yes		

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 3:30 p.m.	TO: 4:30 p.m.	1 hour

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 04/29/2022

Site Visit Pictures 04/29/2022



Figure 1: Containment area



Figure 2: Containment area



Figure 3: Containment area



Figure 4: Stormwater Pond and pump



Figure 5: Containment area



Figure 6: Containment area



Figure 7: Containment area



Figure 8: Scrap metal from tanks



Figure 9: Containment area



Figure 10: Scrap metal from tanks



Figure 11: Scrap metal from tanks

Waste Management – Sludge Manifest, Invoice,
Profile, Analytical Report, and QC Summary Report



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-431		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 223 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge 412892 FL WM Profile #				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name Jim Merrifield		Signature "On behalf of" <i>[Signature]</i>		Month Day Year 11/19/21
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Leron Inc.		Signature <i>[Signature]</i>		Month Day Year 11/10/21
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed/Typed Name		Signature		Month Day Year



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431						A. Manifest Number WMNA 10720803	
4. Generator's Phone 32431						B. State Generator's ID	
5. Transporter 1 Company Name J E Merrifield				6. US EPA ID Number 8502092336		C. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address Spring Hill Landfill 4945 Hwy 223 Campbellton, IL 32426				10. US EPA ID Number		E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility's ID	
						H. Facility's Phone	
11. Description of Waste Materials				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. oily sludge WM Profile # 412892FL							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above						K. Disposal Location	
Landfill ☒ Solidification						Cell Level	
Bio Remediation						Grid	
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT:							
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.							
Printed/Typed Name J E Merrifield				Signature "On behalf of" <i>[Signature]</i>		Month Day Year 10/3/08/22	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Thomas Cassidy				Signature <i>[Signature]</i>		Month Day Year 10/3/08/22	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed/Typed Name				Signature		Month Day Year	



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-4311		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 273 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge WM Profile # 412892FL				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name X. Simon Merrifield		Signature "On behalf of" [Signature]		Month Day Year 11/23/02
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature [Signature]		Month Day Year 11/23/02
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name Signature Month Day Year				



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

03/01/22-03/15/22

03/16/2022

8562099-1719-9

How To Contact Us

Visit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due

04/15/2022

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due

\$1,664.48

PAID 6406
\$1,269.77

Previous Balance

394.71

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice
Charges

1,269.77

=

Total Account
Balance Due

1,664.48

DETAILS OF SERVICE

Details for Service Location:

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	03/08/22	871757	1.00	500.00
DISPOSAL CONTAMINATED TONS			8.45	422.50
Ticket Total				922.50
PRORATE MANUAL DEBIT	03/08/22		1.00	20.32
2JS: 03/01-03/07/22				0.00
FUEL/ENVIRONMENTAL CHARGE				289.32
REGULATORY COST RECOVERY CHRG				29.13
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,269.77

Please detach and send the lower section with payment (no cash accepted)

31000 lbs
27.96 TONS



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

12/16/21-12/31/21

01/03/2022

8552447-1719-2

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**02/02/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,673.66**

*PAID 6376
1-24-22*

Previous Balance

1,561.42

+

Payments

(1,561.42)

+

Adjustments

0.00

+

Current Invoice Charges

1,673.66

=

Total Account Balance Due**1,673.66****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
INACTIVITY CHARGE	12/03/21	M39720	1.00	250.00
20S:11/04-12/03/21				0.00
Ticket Total				250.00
20 YD SPECIAL WASTE	12/30/21	859202	1.00	500.00
LINER			1.00	65.00
DISPOSAL CONTAMINATED TONS			9.42	471.00
Ticket Total				1,036.00
20YD SP WASTE CONTNR SVC CHG After 0 Months	12/16/21		1.00	90.00
FUEL/ENVIRONMENTAL CHARGE				256.37

Please detach and send the invoice with payment. (see back contract)



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

11/01/21-11/15/21

11/16/2021

8531729-1719-9

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**12/16/2021**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,902.15**

*PAID 6340
11-28-21*

Previous Balance

488.46

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice Charges

1,413.69

=

Total Account Balance Due**1,902.15****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	11/03/21	848934	1.00	500.00
LINER			1.00	65.00
DISPOSAL PER TON SP WASTE			10.09	403.60
DISPOSAL PER TON SP				0.00
Ticket Total				968.60
FUEL/ENVIRONMENTAL CHARGE				387.78
REGULATORY COST RECOVERY CHRG				48.81
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,413.69



Credit Card

EZ Profile™

Requested Facility: Springhill Landfill ☐ Unsure Profile Number: 412892FL

☐ Multiple Generator Locations (Attach Locations) ☒ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Merrifield Recycled Oil
2. Generator Site Address: 3053 Barnes Lane
(City, State, ZIP) Cottondale FL 32431
3. County: Jackson
4. Contact Name: Jim Merrifield
5. Email: tdsmro@msn.com
6. Phone: (850) 209-2336 7. Fax: _____
8. Generator EPA ID: FLD981-752-041 ☐ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Nonhaz Oil/Water Separator Sludge

Describe Process(es) Generating Material: ☐ See Attached

Treatment of water contaminated with oil associated with external vehicle wash and parking lot drainage. Does not include oil/water sludge from industrial processes.

2. Material Composition and Contaminants: ☐ See Attached

1. <u>Oil sludge/wastewater</u>	<u>100 %</u>
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <u>≥100%</u>	

3. State Waste Codes: _____ ☒ N/A

4. Color: Various

5. Physical State at 70°F: ☐ Solid ☐ Liquid ☒ Other: Sludge

6. Free Liquid Range Percentage: _____ to _____ ☒ N/A

7. pH: _____ to _____ ☒ N/A

8. Strong Odor: ☐ Yes ☒ No Describe: _____

9. Flash Point: ☐ <140°F ☐ 140°–199°F ☒ ≥200° ☐ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☒ Yes

Please identify applicable samples and/or lab reports:

page 4

2. Other information attached (such as MSDS)? ☐ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☐ I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Jim Merrifield Date: 08/04/2021

Title: Owner

Company: J. E. Merrifield, Inc dba Merrifield Recycled oil

B. BILLING INFORMATION

☐ SAME AS GENERATOR

1. Billing Name: J. E. Merrifield, Inc.
2. Billing Address: PO Box 550
(City, State, ZIP) Cottondale FL 32431
3. Contact Name: Jim Merrifield
4. Email: tdsmro@msn.com
5. Phone: (850) 209-2336 6. Fax: _____
7. WM Hauled? ☒ Yes ☐ No
8. P.O. Number: _____
9. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No

Code: _____

2. State Hazardous Waste? ☐ Yes ☒ No

Code: _____

3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No

4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No

5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☒ No

6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No

7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No

8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☒ No

*If Yes, see Addendum (page 2) for additional questions and space.

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No

a. Regulated by 40 CFR 761? ☐ Yes ☐ No

b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No

c. Were PCB imported into the US? ☐ Yes ☐ No

10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No

11. Contains Asbestos? ☐ Yes ☒ No

→ If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

F. SHIPPING AND DOT INFORMATION

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business

2. Estimated Quantity/Unit of Measure: 40

☐ Tons ☒ Yards ☐ Drums ☐ Gallons ☐ Other: _____

3. Container Type and Size: 40 yard roll-off

4. USDOT Proper Shipping Name: ☒ N/A

Certification Signature

Jim Merrifield

THINK GREEN®

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE Revised November 06, 2020 © 2020 WM Intellectual Property Holdings, L.L.C.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(base report)

WO#: 21070781

Date Reported: 7/22/2021

CLIENT: Merrifield Recycled Oil
Matrix: SLUDGE
Lab ID: 21070781-001A
Project:
Client Sample ID MRO #1

Tag Number:
Collection Date: 7/7/2021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS						
				SW7470A	SW7470A	Analyst: JEB
TCLP MERCURY ANALYSIS (SW1311/7470)						
TCLP Mercury	ND	0.0100		mg/L	1	7/20/2021 7:09:00 PM
TCLP METALS						
				SW6010	SW3010A	Analyst: MSK
TCLP METALS ANALYSIS (SW1311/6010)						
TCLP Arsenic(As)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Barium(Ba)	ND	12.5		mg/L	1	7/21/2021 12:01:00 PM
TCLP Cadmium(Cd)	ND	0.250		mg/L	1	7/21/2021 12:01:00 PM
TCLP Chromium(Cr)	ND	0.500		mg/L	1	7/21/2021 12:01:00 PM
TCLP Lead(Pb)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Selenium(Se)	ND	0.125		mg/L	1	7/21/2021 12:01:00 PM
TCLP Silver(Ag)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
PCB ANALYSIS						
				SW8082		Analyst: PGP
PCB ANALYSIS FOR OILS (8082)						
Aroclor 1016	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1221	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1232	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1242	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1248	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1254	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1260	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Total PCBs	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Surr: TCMX	105	67.8 - 130		%Rec	1	7/17/2021 4:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OGI	
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 210716C

Sample ID: 21070975-001AMS	SampType: MS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130720						
Client ID: BatchQC	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	18.1	1.00	20.00	0	90.5	55.8	130				
Aroclor 1260	19.2	1.00	20.00	0	96.2	67.4	130				
Total PCBs	37.4	1.00	40.01	0	93.4	64.7	130				
Surr: TCMX	3.76		4.370		85.9	68.2	136				

Sample ID: 21070975-001AMSD		SampType: MSD	TestCode: PCB_OIL(808			Units: ppm	Prep Date:			RunNo: 130720		
Client ID: BatchQC		Batch ID: 210716C		TestNo: SW8082			Analysis Date: 7/17/2021			SeqNo: 3458623		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aroclor 1016	14.5	1.00	20.00	0	72.7	55.8	130	18.11	21.9	30		
Aroclor 1260	19.2	1.00	20.00	0	96.1	67.4	130	19.25	0.125	30		
Total PCBs	33.8	1.00	40.01	0	84.4	64.7	130	37.36	10.1	30		
Surr: TCMX	3.77		4.370		86.2	68.2	136		0			

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analy
	J Analyte detected below quantitation limits	M Manual Integration used to determine area response	MC Value is below Minimum Compound
	ND Not Detected	OG1	P Second column confirmation exceeds
	PL Permit Limit	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil
Project:

BatchID: 210716C

Sample ID: MB-210716C	SampType: MBLK	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: PBW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 1.00	1.00		0	0						
Aroclor 1221	< 1.00	1.00		0	0						
Aroclor 1232	< 1.00	1.00		0	0						
Aroclor 1242	< 1.00	1.00		0	0						
Aroclor 1248	< 1.00	1.00		0	0						
Aroclor 1254	< 1.00	1.00		0	0						
Aroclor 1260	< 1.00	1.00		0	0						
Total PCBs	< 1.00	1.00		0	0						
Surr: TCMX	3.88		4.370		88.7	20	152				

Sample ID: LCS-210716C	SampType: LCS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: LCSW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	19.5	1.00	20.00	0	97.6	40.4	130				
Aroclor 1260	21.3	1.00	20.00	0	107	58.9	130				
Total PCBs	40.8	1.00	40.01	0	102	44.1	130				
Surr: TCMX	4.09		4.370		93.6	67.8	130				

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original

QC SUMMARY REPORT

WO#: 210707B1

22-Jul-21

Client: Metrol Facilities

Project:

BatchID: 50818

Sample ID: MB-50818	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: PBS	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463112
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: LCS-50818	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: LCS8	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463113
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: 21071001-IE 18	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: Batch01	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463125
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: 21071001-IE 18	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: Batch01	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463126
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Qualifiers: B - Sample below detection limit
 J - Sample below detection limit
 ND - Not Detected
 PL - Sample below detection limit
 H - Holding times for preparation or analysis
 MC - Value is below Minimum Compound
 P - Second column confirmation exceeds
 RL - Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 21070781

22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 50818

Sample ID: 21071006-010AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 50818	TestNo: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Attachment D.4
Monthly Closure Reports
May 17, 2022

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/17/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Complete
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	6/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/17/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	5/5/2022	6/1/2022	Incomplete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/17/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
10	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	5/23/2022	Boiler has been drained and dried. Samples have not yet been taken.

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/17/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
11	The concrete containment area where tank #3-4 are located on the facility map will be removed. The soil below the containment area that shows signs of petroleum staining will be excavated.	6/1/2022	7/1/2022	Not Started
12	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. A soil sample will be taken underneath the removed containment area. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	7/1/2022	7/1/2022	Not Started

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
5/17/2022**

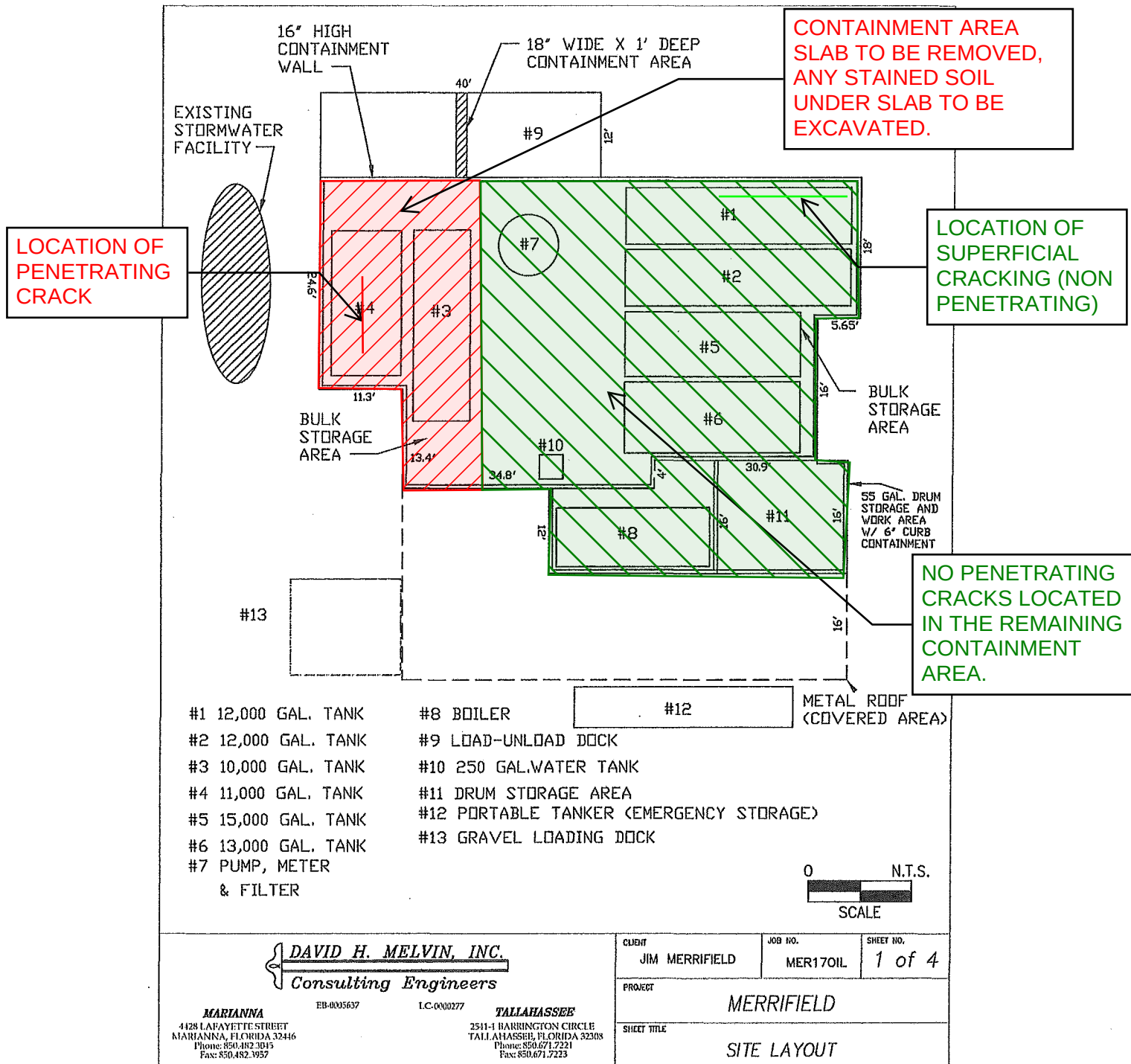
General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
13	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	7/5/2022	7/11/2022	Not Started

J. E. Merrifield, Inc. dba Merrifield Recycled Oil
3053 Barnes Lane
Cottondale, Florida 32431

EPA ID NUMBER: FLD 981 752 041
PERMIT NUMBER: 65796-005-HO
EXPIRATION DATE: November 18, 2022

ATTACHMENT A – FACILITY MAP



CORE FROM
PENETRATING
CRACK





CORE FROM
SUPERFICIAL
CRACK

Attachment D.5
Monthly Closure Reports
June 27, 2022

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
6/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Complete
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
6/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	5/5/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
6/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
10	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	5/23/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
6/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
11	The concrete containment area where tank #3-4 are located on the facility map will be removed. The soil below the containment area that shows signs of petroleum staining will be excavated.	6/27/2022	7/11/2022	Not Started
12	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. A soil sample will be taken underneath the removed containment area. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	7/15/2022	7/15/2022	All soil samples have been taken except underneath containment area.

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
6/27/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
13	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	7/15/2022	8/1/2022	Not Started

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 06/01/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
---------------------	----------------------------	--------------------------------

Remarks	
Activity: Soil & Wipe Samples	
Wipe samples were taken where tanks 1-6 were located plus the boiler.	
Soil samples were taken around the perimeter.	
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Wednesday
Visitors: ☒ No ☐ Yes	

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 10:00 a.m.	TO: 12:30 p.m.	2.5 hours

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 06/01/2022

Site Visit Pictures 06/01/2022



Figure 1: 4 ft. depth soil sample



Figure 2: 4 ft. depth soil sample



Figure 3: Wipe sample



Figure 4: 4 ft. depth soil sample at the storm water pond



Figure 5: Wipe sample



Figure 6: Wipe sample



Figure 7: Wipe sample

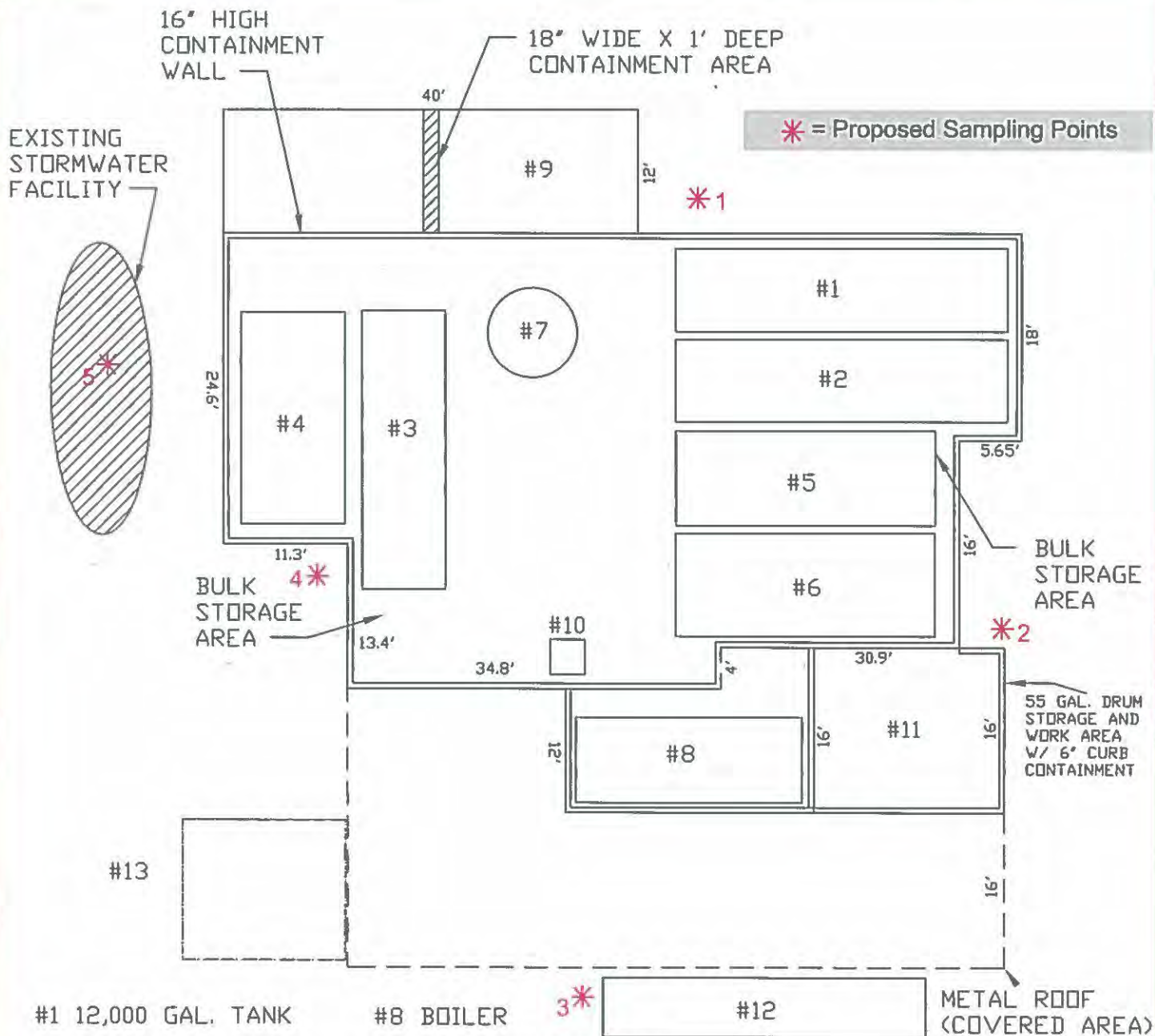
Wipe & Soil Sample Results

**MERRIFIELD RECYCLED OIL
SOIL SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
SB-1	06/01/2022 10:05	Arsenic	mg/kg	0.96	8.9	100	5
	06/01/2022 10:05	Barium	mg/kg	19.2	26.0	2000	100
	06/01/2022 10:05	Cadmium	mg/kg	0.48	ND	100	1
	06/01/2022 10:05	Chromium	mg/kg	0.96	24.5	100	5
	06/01/2022 10:05	Lead	mg/kg	0.48	16.1	100	5
	06/01/2022 10:05	Selenium	mg/kg	1.9	ND	100	1
	06/01/2022 10:05	Silver	mg/kg	0.96	ND	100	5
	06/01/2022 10:05	Mercury	mg/kg	0.019	0.022	20	0.2
SB-2	06/01/2022 10:20	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Barium	mg/kg	22.6	ND	2000	100
	06/01/2022 10:20	Cadmium	mg/kg	0.57	ND	100	1
	06/01/2022 10:20	Chromium	mg/kg	1.1	4.8	100	5
	06/01/2022 10:20	Lead	mg/kg	0.57	4.6	100	5
	06/01/2022 10:20	Selenium	mg/kg	2.3	ND	100	1
	06/01/2022 10:20	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Mercury	mg/kg	0.016	ND	20	0.2
SB-3	06/01/2022 10:40	Arsenic	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Barium	mg/kg	19.8	ND	2000	100
	06/01/2022 10:40	Cadmium	mg/kg	0.50	ND	100	1
	06/01/2022 10:40	Chromium	mg/kg	0.99	4.7	100	5
	06/01/2022 10:40	Lead	mg/kg	0.50	8.4	100	5
	06/01/2022 10:40	Selenium	mg/kg	2.0	ND	100	1
	06/01/2022 10:40	Silver	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Mercury	mg/kg	0.016	ND	20	0.2
SB-4	06/01/2022 10:58	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Barium	mg/kg	22.1	ND	2000	100
	06/01/2022 10:58	Cadmium	mg/kg	0.55	ND	100	1
	06/01/2022 10:58	Chromium	mg/kg	1.1	5.0	100	5
	06/01/2022 10:58	Lead	mg/kg	0.55	85.1	100	5
	06/01/2022 10:58	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 10:58	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Mercury	mg/kg	0.021	ND	20	0.2
SB-5	06/01/2022 11:15	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Barium	mg/kg	22.3	ND	2000	100
	06/01/2022 11:15	Cadmium	mg/kg	0.56	ND	100	1
	06/01/2022 11:15	Chromium	mg/kg	1.1	10.8	100	5
	06/01/2022 11:15	Lead	mg/kg	0.56	2.0	100	5
	06/01/2022 11:15	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 11:15	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Mercury	mg/kg	0.022	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit



**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-1	06/01/2022 10:32	Arsenic	Total ug	0.50	5.3	100,000	5,000
	06/01/2022 10:32	Barium	Total ug	10.0	2460	2,000,000	100,000
	06/01/2022 10:32	Cadmium	Total ug	0.25	0.39	100,000	1,000
	06/01/2022 10:32	Chromium	Total ug	0.50	11.2	1,000,000	5,000
	06/01/2022 10:32	Lead	Total ug	0.25	28.5	1,000,000	5,000
	06/01/2022 10:32	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:32	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:50	Mercury	Total ug	0.0060	ND	20,000	200
WS-2	06/01/2022 10:39	Arsenic	Total ug	0.50	1.2	100,000	5,000
	06/01/2022 10:39	Barium	Total ug	10.0	95.1	2,000,000	100,000
	06/01/2022 10:39	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:39	Chromium	Total ug	0.50	1.6	1,000,000	5,000
	06/01/2022 10:39	Lead	Total ug	0.25	2.3	1,000,000	5,000
	06/01/2022 10:39	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:39	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:55	Mercury	Total ug	0.0060	ND	20,000	200
WS-3	06/01/2022 10:44	Arsenic	Total ug	1.0	37.3	100,000	5,000
	06/01/2022 10:44	Barium	Total ug	20.0	2150	2,000,000	100,000
	06/01/2022 10:44	Cadmium	Total ug	0.50	ND	100,000	1,000
	06/01/2022 10:44	Chromium	Total ug	1.0	13.5	1,000,000	5,000
	06/01/2022 10:44	Lead	Total ug	0.50	66.7	1,000,000	5,000
	06/01/2022 10:44	Selenium	Total ug	3.5	ND	1,000,000	1,000
	06/01/2022 10:44	Silver	Total ug	1.0	ND	1,000,000	5,000
	06/09/2022 08:00	Mercury	Total ug	0.0060	ND	20,000	200
WS-4	06/01/2022 10:48	Arsenic	Total ug	0.50	4.6	100,000	5,000
	06/01/2022 10:48	Barium	Total ug	10.0	106	2,000,000	100,000
	06/01/2022 10:48	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:48	Chromium	Total ug	0.50	3.5	1,000,000	5,000
	06/01/2022 10:48	Lead	Total ug	0.25	7.2	1,000,000	5,000
	06/01/2022 10:48	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:48	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:05	Mercury	Total ug	0.0060	0.014	20,000	200
WS-5	06/01/2022 10:52	Arsenic	Total ug	0.50	1.9	100,000	5,000
	06/01/2022 10:52	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:52	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:52	Chromium	Total ug	0.50	3.0	1,000,000	5,000
	06/01/2022 10:52	Lead	Total ug	0.25	1.3	1,000,000	5,000
	06/01/2022 10:52	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:52	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:10	Mercury	Total ug	0.0060	ND	20,000	200
WS-6	06/01/2022 10:58	Arsenic	Total ug	0.50	0.54	100,000	5,000
	06/01/2022 10:58	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:58	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:58	Chromium	Total ug	0.50	0.59	1,000,000	5,000
	06/01/2022 10:58	Lead	Total ug	0.25	11.8	1,000,000	5,000
	06/01/2022 10:58	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:58	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:20	Mercury	Total ug	0.0060	0.011	20,000	200

Notes

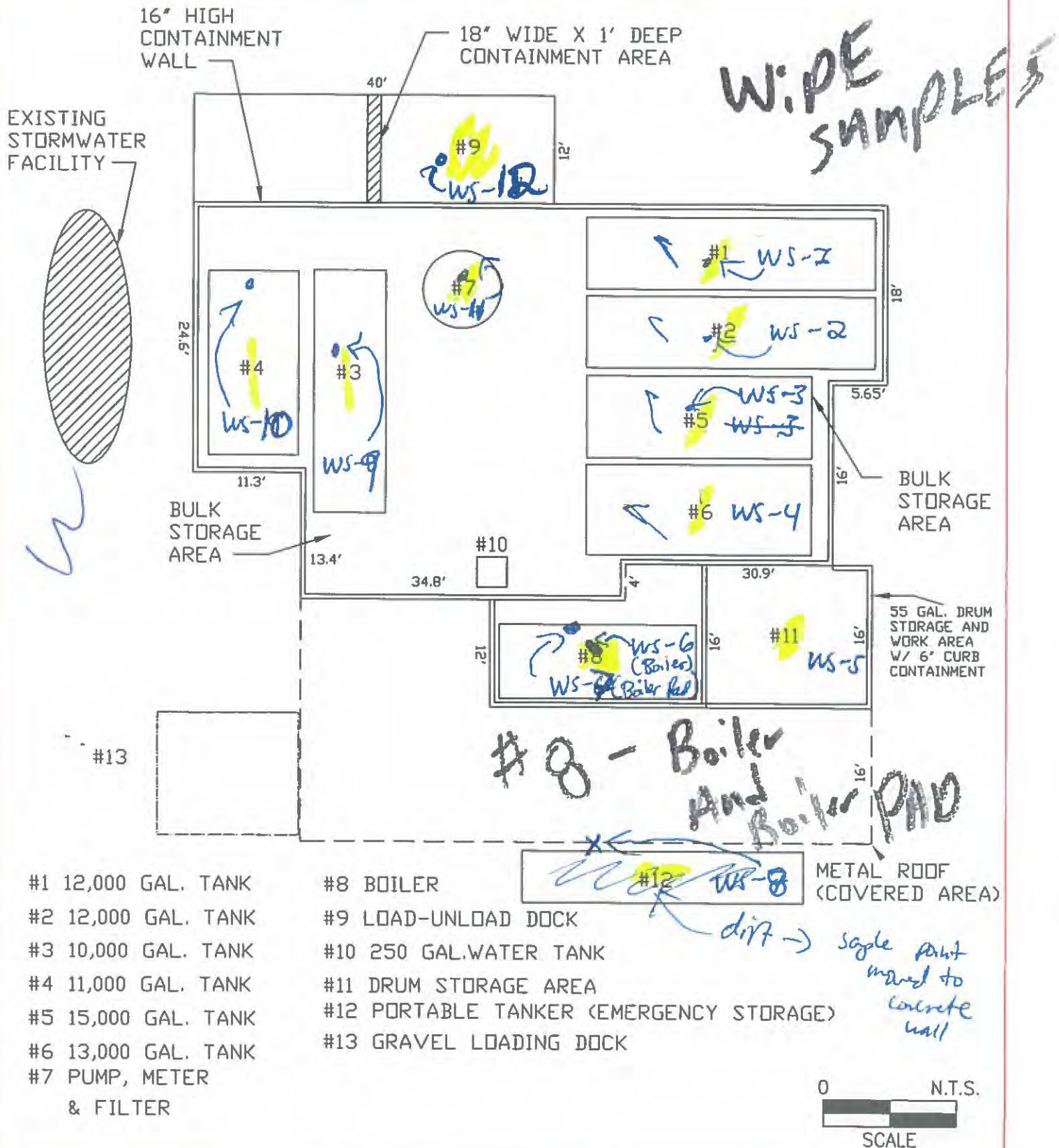
1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-7	06/01/2022 11:03	Arsenic	Total ug	0.50	0.91	100,000	5,000
	06/01/2022 11:03	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 11:03	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:03	Chromium	Total ug	0.50	6.6	1,000,000	5,000
	06/01/2022 11:03	Lead	Total ug	0.25	4.9	1,000,000	5,000
	06/01/2022 11:03	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:03	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:15	Mercury	Total ug	0.0060	0.016	20,000	200
WS-8	06/01/2022 11:10	Arsenic	Total ug	0.50	10.6	100,000	5,000
	06/01/2022 11:10	Barium	Total ug	10.0	136	2,000,000	100,000
	06/01/2022 11:10	Cadmium	Total ug	0.25	0.80	100,000	1,000
	06/01/2022 11:10	Chromium	Total ug	0.50	21.9	1,000,000	5,000
	06/01/2022 11:10	Lead	Total ug	0.25	39.5	1,000,000	5,000
	06/01/2022 11:10	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:10	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:25	Mercury	Total ug	0.0060	0.011	20,000	200
WS-9	06/01/2022 11:15	Arsenic	Total ug	0.50	8.8	100,000	5,000
	06/01/2022 11:15	Barium	Total ug	10.0	534	2,000,000	100,000
	06/01/2022 11:15	Cadmium	Total ug	0.25	0.31	100,000	1,000
	06/01/2022 11:15	Chromium	Total ug	0.50	11.9	1,000,000	5,000
	06/01/2022 11:15	Lead	Total ug	0.25	87.6	1,000,000	5,000
	06/01/2022 11:15	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:15	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:30	Mercury	Total ug	0.0060	0.012	20,000	200
WS-10	06/01/2022 11:20	Arsenic	Total ug	0.50	5.1	100,000	5,000
	06/01/2022 11:20	Barium	Total ug	10.0	327	2,000,000	100,000
	06/01/2022 11:20	Cadmium	Total ug	0.25	0.40	100,000	1,000
	06/01/2022 11:20	Chromium	Total ug	0.50	36.9	1,000,000	5,000
	06/01/2022 11:20	Lead	Total ug	0.25	138	1,000,000	5,000
	06/01/2022 11:20	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:20	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:35	Mercury	Total ug	0.0060	0.020	20,000	200
WS-11	06/01/2022 11:24	Arsenic	Total ug	0.50	2.8	100,000	5,000
	06/01/2022 11:24	Barium	Total ug	10.0	17.5	2,000,000	100,000
	06/01/2022 11:24	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:24	Chromium	Total ug	0.50	2.8	1,000,000	5,000
	06/01/2022 11:24	Lead	Total ug	0.25	11.1	1,000,000	5,000
	06/01/2022 11:24	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:24	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:40	Mercury	Total ug	0.0060	0.0096	20,000	200
WS-12	06/01/2022 11:28	Arsenic	Total ug	5.0	10.3	100,000	5,000
	06/01/2022 11:28	Barium	Total ug	100	261	2,000,000	100,000
	06/01/2022 11:28	Cadmium	Total ug	2.5	8.1	100,000	1,000
	06/01/2022 11:28	Chromium	Total ug	5.0	49.1	1,000,000	5,000
	06/01/2022 11:28	Lead	Total ug	2.5	205	1,000,000	5,000
	06/01/2022 11:28	Selenium	Total ug	17.5	ND	1,000,000	1,000
	06/01/2022 11:28	Silver	Total ug	5.0	ND	1,000,000	5,000
	06/09/2022 08:45	Mercury	Total ug	0.0060	0.022	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit



DAVID H. MELVIN, INC.
Consulting Engineers

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MARIANNA, FLORIDA 32446
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EB-0005637

LC-0000277

TALLAHASSEE
2541-1 BARRINGTON CIRCLE
TALLAHASSEE, FLORIDA 32308
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CLIENT
JIM MERRIFIELD

JOB NO.
MER170IL

SHEET NO.
1 of 4

PROJECT
MERRIFIELD

SHEET TITLE
SITE LAYOUT

June 14, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield RCRA/M22-350 6/2/22
Pace Project No.: 20245592

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20245592001	SB-1	Solid	06/01/22 10:05	06/02/22 13:24
20245592002	SB-2	Solid	06/01/22 10:20	06/02/22 13:24
20245592003	SB-3	Solid	06/01/22 10:40	06/02/22 13:24
20245592004	SB-4	Solid	06/01/22 10:58	06/02/22 13:24
20245592005	SB-5	Solid	06/01/22 11:15	06/02/22 13:24
20245592006	WS-1	Wipe	06/01/22 10:32	06/02/22 13:24
20245592007	WS-2	Wipe	06/01/22 10:39	06/02/22 13:24
20245592008	WS-3	Wipe	06/01/22 10:44	06/02/22 13:24
20245592009	WS-4	Wipe	06/01/22 10:48	06/02/22 13:24
20245592010	WS-5	Wipe	06/01/22 10:52	06/02/22 13:24
20245592011	WS-6	Wipe	06/01/22 10:58	06/02/22 13:24
20245592012	WS-7	Wipe	06/01/22 11:03	06/02/22 13:24
20245592013	WS-8	Wipe	06/01/22 11:10	06/02/22 13:24
20245592014	WS-9	Wipe	06/01/22 11:15	06/02/22 13:24
20245592015	WS-10	Wipe	06/01/22 11:20	06/02/22 13:24
20245592016	WS-11	Wipe	06/01/22 11:24	06/02/22 13:24
20245592017	WS-12	Wipe	06/01/22 11:28	06/02/22 13:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20245592001	SB-1	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592002	SB-2	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592003	SB-3	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592004	SB-4	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592005	SB-5	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592006	WS-1	EPA 6010	AJS	7
20245592007	WS-2	EPA 6010	AJS	7
20245592008	WS-3	EPA 6010	AJS	7
20245592009	WS-4	EPA 6010	AJS	7
20245592010	WS-5	EPA 6010	AJS	7
20245592011	WS-6	EPA 6010	AJS	7
20245592012	WS-7	EPA 6010	AJS	7
20245592013	WS-8	EPA 6010	AJS	7
20245592014	WS-9	EPA 6010	AJS	7
20245592015	WS-10	EPA 6010	AJS	7
20245592016	WS-11	EPA 6010	AJS	7
20245592017	WS-12	EPA 6010	AJS	7

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 MET ICP, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

12 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 257440

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- WS-12 (Lab ID: 20245592017)
 - Arsenic
- WS-3 (Lab ID: 20245592008)
 - Cadmium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 Metals, Total

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1225453)
 - Silver
- MSD (Lab ID: 1225454)
 - Barium
 - Silver

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 7471

Description: 7471 Mercury

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257018

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1224620)
 - Mercury
- MSD (Lab ID: 1224621)
 - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 1224621)
 - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-1 **Lab ID: 20245592001** Collected: 06/01/22 10:05 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	8.9	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-38-2	
Barium	26.0	mg/kg	19.2	1	06/07/22 06:45	06/08/22 11:44	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7440-43-9	
Chromium	24.5	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-47-3	
Lead	16.1	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7439-92-1	
Selenium	ND	mg/kg	1.9	1	06/07/22 06:45	06/08/22 11:44	7782-49-2	
Silver	ND	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	0.022	mg/kg	0.019	1	06/06/22 07:10	06/07/22 11:43	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.4	%	0.50	1		06/03/22 11:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-2 **Lab ID: 20245592002** Collected: 06/01/22 10:20 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-38-2	
Barium	ND	mg/kg	22.6	1	06/07/22 06:45	06/08/22 11:48	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7440-43-9	
Chromium	4.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-47-3	
Lead	4.6	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7439-92-1	
Selenium	ND	mg/kg	2.3	1	06/07/22 06:45	06/08/22 11:48	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:45	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.3	%	0.50	1		06/03/22 11:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-3 **Lab ID: 20245592003** Collected: 06/01/22 10:40 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans						
Arsenic	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-38-2	
Barium	ND	mg/kg	19.8	1	06/07/22 06:45	06/08/22 11:52	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7440-43-9	
Chromium	4.7	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-47-3	
Lead	8.4	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7439-92-1	
Selenium	ND	mg/kg	2.0	1	06/07/22 06:45	06/08/22 11:52	7782-49-2	
Silver	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:47	7439-97-6	
Percent Moisture		Analytical Method: Moisture Pace Analytical Services - New Orleans						
Percent Moisture	8.3	%	0.50	1		06/03/22 11:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-4 **Lab ID: 20245592004** Collected: 06/01/22 10:58 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-38-2	
Barium	ND	mg/kg	22.1	1	06/07/22 06:45	06/08/22 11:57	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7440-43-9	
Chromium	5.0	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-47-3	
Lead	85.1	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 11:57	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.021	1	06/06/22 07:10	06/07/22 11:49	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	19.2	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-5 **Lab ID: 20245592005** Collected: 06/01/22 11:15 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-38-2	
Barium	ND	mg/kg	22.3	1	06/07/22 06:45	06/08/22 12:01	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7440-43-9	
Chromium	10.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-47-3	
Lead	2.0	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 12:01	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.022	1	06/06/22 07:10	06/07/22 11:52	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	28.7	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-1		Lab ID: 20245592006		Collected: 06/01/22 10:32		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	5.3	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-38-2		
Barium	2460	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:18	7440-39-3		
Cadmium	0.39	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7440-43-9		
Chromium	11.2	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-47-3		
Lead	28.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:18	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-2		Lab ID: 20245592007		Collected: 06/01/22 10:39		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	1.2	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-38-2	
		Barium	95.1	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:39	7440-39-3	
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7440-43-9	
		Chromium	1.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-47-3	
		Lead	2.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:39	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-3		Lab ID: 20245592008		Collected: 06/01/22 10:44		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	37.3	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-38-2	D3	
Barium	2150	Total ug	20.0	2	06/08/22 06:35	06/14/22 10:22	7440-39-3		
Cadmium	ND	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7440-43-9		
Chromium	13.5	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-47-3		
Lead	66.7	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7439-92-1		
Selenium	ND	Total ug	3.5	2	06/08/22 06:35	06/14/22 10:22	7782-49-2		
Silver	ND	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-4		Lab ID: 20245592009	Collected: 06/01/22 10:48	Received: 06/02/22 13:24	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans						
Arsenic	4.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-38-2	
Barium	106	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:47	7440-39-3	
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7440-43-9	
Chromium	3.5	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-47-3	
Lead	7.2	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7439-92-1	
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:47	7782-49-2	
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-5		Lab ID: 20245592010		Collected: 06/01/22 10:52		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	1.9	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:51	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7440-43-9		
Chromium	3.0	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-47-3		
Lead	1.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:51	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-6		Lab ID: 20245592011		Collected: 06/01/22 10:58		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	0.54	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:55	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7440-43-9		
Chromium	0.59	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-47-3		
Lead	11.8	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:55	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-7		Lab ID: 20245592012		Collected: 06/01/22 11:03		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	0.91	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-38-2
		Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:59	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7440-43-9
		Chromium	6.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-47-3
		Lead	4.9	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:59	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-22-4

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-8		Lab ID: 20245592013		Collected: 06/01/22 11:10		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	10.6	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-38-2	
		Barium	136	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:27	7440-39-3	
		Cadmium	0.80	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7440-43-9	
		Chromium	21.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-47-3	
		Lead	39.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:27	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-9		Lab ID: 20245592014		Collected: 06/01/22 11:15		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	8.8	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-38-2		
Barium	534	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:31	7440-39-3		
Cadmium	0.31	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7440-43-9		
Chromium	11.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-47-3		
Lead	87.6	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:31	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-10		Lab ID: 20245592015		Collected: 06/01/22 11:20		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	5.1	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-38-2		
Barium	327	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:35	7440-39-3		
Cadmium	0.40	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7440-43-9		
Chromium	36.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-47-3		
Lead	138	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:35	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-11		Lab ID: 20245592016		Collected: 06/01/22 11:24		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-38-2
		Barium	17.5	Total ug	10.0	1	06/08/22 06:35	06/13/22 13:23	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7440-43-9
		Chromium	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-47-3
		Lead	11.1	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 13:23	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-22-4

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-12		Lab ID: 20245592017		Collected: 06/01/22 11:28		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	10.3	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-38-2	D3	
Barium	261	Total ug	100	10	06/08/22 06:35	06/13/22 13:27	7440-39-3		
Cadmium	8.1	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7440-43-9		
Chromium	49.1	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-47-3		
Lead	205	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7439-92-1		
Selenium	ND	Total ug	17.5	10	06/08/22 06:35	06/13/22 13:27	7782-49-2		
Silver	ND	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-22-4		

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257018

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1224618

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	06/07/22 11:10	

LABORATORY CONTROL SAMPLE: 1224619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224620 1224621

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.4	0.077	0.086	0.22	0.76	-1480	-704	75-125	110	20	M1,R1

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257440	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET Wipes
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017		

METHOD BLANK:	1226474	Matrix:	Wipe
Associated Lab Samples:	20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	Total ug	ND	0.50	06/13/22 12:19	
Barium	Total ug	ND	10.0	06/13/22 12:19	
Cadmium	Total ug	ND	0.25	06/13/22 12:19	
Chromium	Total ug	ND	0.50	06/13/22 12:19	
Lead	Total ug	ND	0.25	06/13/22 12:19	
Selenium	Total ug	ND	1.8	06/13/22 12:19	
Silver	Total ug	ND	0.50	06/13/22 12:19	

LABORATORY CONTROL SAMPLE: 1226475						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	Total ug	50	49.6	99	85-115	
Barium	Total ug	50	50.2	100	85-115	
Cadmium	Total ug	50	48.9	98	85-115	
Chromium	Total ug	50	51.0	102	85-115	
Lead	Total ug	50	49.5	99	85-115	
Selenium	Total ug	50	48.0	96	85-115	
Silver	Total ug	25	24.6	98	85-115	

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257241	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1225451

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.86	06/08/22 10:38	
Barium	mg/kg	ND	17.2	06/08/22 10:38	
Cadmium	mg/kg	ND	0.43	06/08/22 10:38	
Chromium	mg/kg	ND	0.86	06/08/22 10:38	
Lead	mg/kg	ND	0.43	06/08/22 10:38	
Selenium	mg/kg	ND	1.7	06/08/22 10:38	
Silver	mg/kg	ND	0.86	06/08/22 10:38	

LABORATORY CONTROL SAMPLE: 1225452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	99.6	100	84-115	
Barium	mg/kg	100	104	104	85-115	
Cadmium	mg/kg	100	101	101	85-115	
Chromium	mg/kg	100	105	105	85-115	
Lead	mg/kg	100	102	102	85-115	
Selenium	mg/kg	100	96.1	96	77-115	
Silver	mg/kg	50	49.1	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225453 1225454

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	10.1	84.7	90.9	89.8	96.1	94	95	80-120	7	20	
Barium	mg/kg	880	84.7	90.9	961	1060	96	194	80-120	9	20	M1
Cadmium	mg/kg	ND	84.7	90.9	84.2	91.2	98	99	80-120	8	20	
Chromium	mg/kg	38.4	84.7	90.9	130	137	108	108	80-120	5	20	
Lead	mg/kg	45.1	84.7	90.9	137	141	108	105	80-120	3	20	
Selenium	mg/kg	ND	84.7	90.9	81.5	91.5	95	100	80-120	12	20	
Silver	mg/kg	ND	42.4	45.5	27.9	28.9	66	64	80-120	3	20	M1

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257021

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

SAMPLE DUPLICATE: 1224626

Parameter	Units	50317525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.7	41.3	4	20	

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QUALIFIERS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20245592006	WS-1	EPA 3050	257440	EPA 6010	257467
20245592007	WS-2	EPA 3050	257440	EPA 6010	257467
20245592008	WS-3	EPA 3050	257440	EPA 6010	257467
20245592009	WS-4	EPA 3050	257440	EPA 6010	257467
20245592010	WS-5	EPA 3050	257440	EPA 6010	257467
20245592011	WS-6	EPA 3050	257440	EPA 6010	257467
20245592012	WS-7	EPA 3050	257440	EPA 6010	257467
20245592013	WS-8	EPA 3050	257440	EPA 6010	257467
20245592014	WS-9	EPA 3050	257440	EPA 6010	257467
20245592015	WS-10	EPA 3050	257440	EPA 6010	257467
20245592016	WS-11	EPA 3050	257440	EPA 6010	257467
20245592017	WS-12	EPA 3050	257440	EPA 6010	257467
20245592001	SB-1	EPA 3050	257241	EPA 6010	257347
20245592002	SB-2	EPA 3050	257241	EPA 6010	257347
20245592003	SB-3	EPA 3050	257241	EPA 6010	257347
20245592004	SB-4	EPA 3050	257241	EPA 6010	257347
20245592005	SB-5	EPA 3050	257241	EPA 6010	257347
20245592001	SB-1	EPA 7471	257018	EPA 7471	257217
20245592002	SB-2	EPA 7471	257018	EPA 7471	257217
20245592003	SB-3	EPA 7471	257018	EPA 7471	257217
20245592004	SB-4	EPA 7471	257018	EPA 7471	257217
20245592005	SB-5	EPA 7471	257018	EPA 7471	257217
20245592001	SB-1	Moisture	257021		
20245592002	SB-2	Moisture	257021		
20245592003	SB-3	Moisture	257021		
20245592004	SB-4	Moisture	257021		
20245592005	SB-5	Moisture	257021		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

WO# : 20245592

Page 32 of 33

PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: SESI		Report To: Enc Guarino		Attention:	
Address: 5460 Rangeline Road		Copy To:		Company Name	
Mobile, AL 36619				Address:	
Email To: eguarino@seearth.com		Purchase Order No.:		Pace Quote Reference:	
Phone: (251) 344-7711 Fax:		Project Name: Memphis RCRA Closure		Pace Project Manager:	
Requested Due Date/TAT: Standard TAT		Project Number: 422-350		Pace Profile #:	
REGULATORY AGENCY					
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER					
Site Location				STATE: FL	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					COMPOSITE START		COMPOSITE END GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		Bacteria Inorganic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Wipe samples report in ug/ft ²	Horacio Martinez / SESI	6/2/22	1324	Kyle A. Wilton	6/2/22	1324	1.3	Y	N

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Horacio Martinez					
SIGNATURE of SAMPLER: Horacio Martinez	DATE Signed (MM/DD/YY): 6/2/22				



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

WO#: 20245592

PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/2/2022 KALJ

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☐ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

June 22, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield M22-350 6/14/22
Pace Project No.: 20246759

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20246759001	WS-1	Wipe	06/09/22 07:50	06/14/22 14:17
20246759002	WS-2	Wipe	06/09/22 07:55	06/14/22 14:17
20246759003	WS-3	Wipe	06/09/22 08:00	06/14/22 14:17
20246759004	WS-4	Wipe	06/09/22 08:05	06/14/22 14:17
20246759005	WS-5	Wipe	06/09/22 08:10	06/14/22 14:17
20246759006	WS-6	Wipe	06/09/22 08:20	06/14/22 14:17
20246759007	WS-7	Wipe	06/09/22 08:15	06/14/22 14:17
20246759008	WS-8	Wipe	06/09/22 08:25	06/14/22 14:17
20246759009	WS-9	Wipe	06/09/22 08:30	06/14/22 14:17
20246759010	WS-10	Wipe	06/09/22 08:35	06/14/22 14:17
20246759011	WS-11	Wipe	06/09/22 08:40	06/14/22 14:17
20246759012	WS-12	Wipe	06/09/22 08:45	06/14/22 14:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20246759001	WS-1	EPA 7471	AJS	1
20246759002	WS-2	EPA 7471	AJS	1
20246759003	WS-3	EPA 7471	AJS	1
20246759004	WS-4	EPA 7471	AJS	1
20246759005	WS-5	EPA 7471	AJS	1
20246759006	WS-6	EPA 7471	AJS	1
20246759007	WS-7	EPA 7471	AJS	1
20246759008	WS-8	EPA 7471	AJS	1
20246759009	WS-9	EPA 7471	AJS	1
20246759010	WS-10	EPA 7471	AJS	1
20246759011	WS-11	EPA 7471	AJS	1
20246759012	WS-12	EPA 7471	AJS	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Method: EPA 7471

Description: 7471 Mercury, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 22, 2022

General Information:

12 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-1		Lab ID: 20246759001	Collected: 06/09/22 07:50	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:19	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-2		Lab ID: 20246759002	Collected: 06/09/22 07:55	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:21	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-3		Lab ID: 20246759003		Collected: 06/09/22 08:00		Received: 06/14/22 14:17		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans							
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:24	7439-97-6		

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-4		Lab ID: 20246759004	Collected: 06/09/22 08:05	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.014	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:26	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-5		Lab ID: 20246759005	Collected: 06/09/22 08:10	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:28	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-6		Lab ID: 20246759006	Collected: 06/09/22 08:20	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:31	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-7		Lab ID: 20246759007	Collected: 06/09/22 08:15	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.016	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:33	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-8		Lab ID: 20246759008	Collected: 06/09/22 08:25	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:35	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-9		Lab ID: 20246759009	Collected: 06/09/22 08:30	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.012	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:42	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-10		Lab ID: 20246759010	Collected: 06/09/22 08:35	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.020	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:45	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-11		Lab ID: 20246759011	Collected: 06/09/22 08:40	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.0096	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:47	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-12		Lab ID: 20246759012	Collected: 06/09/22 08:45	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.022	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:49	7439-97-6	

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QUALITY CONTROL DATA

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

QC Batch:	258715	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury Wipe
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012		

METHOD BLANK:	1233385	Matrix:	Wipe
Associated Lab Samples:	20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	Total ug	ND	0.0060	06/22/22 11:15	

LABORATORY CONTROL SAMPLE:	1233386					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	Total ug	0.03	0.031	103	80-120	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20246759001	WS-1	EPA 7471	258715	EPA 7471	258721
20246759002	WS-2	EPA 7471	258715	EPA 7471	258721
20246759003	WS-3	EPA 7471	258715	EPA 7471	258721
20246759004	WS-4	EPA 7471	258715	EPA 7471	258721
20246759005	WS-5	EPA 7471	258715	EPA 7471	258721
20246759006	WS-6	EPA 7471	258715	EPA 7471	258721
20246759007	WS-7	EPA 7471	258715	EPA 7471	258721
20246759008	WS-8	EPA 7471	258715	EPA 7471	258721
20246759009	WS-9	EPA 7471	258715	EPA 7471	258721
20246759010	WS-10	EPA 7471	258715	EPA 7471	258721
20246759011	WS-11	EPA 7471	258715	EPA 7471	258721
20246759012	WS-12	EPA 7471	258715	EPA 7471	258721

REPORT OF LABORATORY ANALYSIS

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Company Name/Address: SESI 5460 Rangeline Rd Mobile AL 36619				Billing Information: SESI				Analysis / Container / Pres Chk	
Report to: E.C. Guarino				Email To: eguarino@seearth.com				Mercury	
Project Description: Merrifield				City/State Collected: GtHndale FL		Please Circle: PT MT CT ET			
Phone: 251 344-7711		Client Project # M22-350		Lab Project #					
Collected by (print): TBarny		Site/Facility ID #		P.O. #					
Collected by (signature): <i>Sam Barny</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # Std					
Immediately Packed on Ice N ☐ Y ☐		Date Results Needed Std		No. of Cntrs					
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time				
W/S 1		wipe	1sf	6-9-22	750	1	X		
W-S-2				6-9-22	755	1	X		
WS-3				6-9-22	800	1	X		
WS-4				6-9-22	805	1	X		
WS-5				6-9-22	810	1	X		
WS 6				6-9-22	820	1	X		
WS 7				6-9-22	815	1	X		
WS 8				6-9-22	825	1	X		
WS 9				6-9-22	830	1	X		
WS 10				6-9-22	835	1	X		

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other wipe

Remarks:
 Report wipe in ug/ft²

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)
Sam Barny

Date: 6-9-22 **Time:** 3:00

Received by: (Signature)
Fed Ex

Date: 7/10/22 **Time:** 1630

Relinquished by: (Signature)
Fed Ex

Date: 6/13/22 **Time:** 1400

Received by: (Signature)
[Signature]

Date: 6/13/22 **Time:** 1400

Relinquished by: (Signature)
[Signature]

Date: 6/14/22 **Time:**

Received for lab by: (Signature)
Michelle [Signature]

Date: 6/14/22 **Time:** 1417

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Temp: °C **Bottles Received:**

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Hold: **Condition:** NCF / OK

W0#: 20246759



20246759

12065 Lebanon Rd Mount Juliet, TN 37122

Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

Company Name/Address:

Billing Information:

Analysis / Container

WO#: 20246759

PM: SLW

Due Date: 06/24/22

CLIENT: MO-SES

Pres
Chk

Report to:

Email To:

Project Description:

City/State

Collected:

Please Circle:

PT MT CT ET

Phone:

Client Project #

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately

Packed on Ice N Y

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cnts

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

WS 11

Wipe

1sf

6-9-22

840

1

X

WS 12

Wipe

1sf

6-9-22

845

1

X

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
 COC Signed/Accurate: ☐ Y ☐ N
 Bottles arrive intact: ☐ Y ☐ N
 Correct bottles used: ☐ Y ☐ N
 Sufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☐ Y ☐ N

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

17065 Lebanon Rd Mount Juliet, TN 37122
 Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance
 of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/subfu/pas-standard-terms.pdf>



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

20246759

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/14/2022 KALW

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Attachment D.6
Monthly Closure Reports
August 15, 2022

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/15/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
1	Tanks #1-6 will be drained and purged.	3/17/2021	3/17/2021	Complete
2	The pipes, hoses, pump, meter and filter associated with tanks #1-6 will be drained and disposed of.	3/17/2021	3/17/2021	Complete
3	Tanks #1-6 will have access doors cut into them on both ends at two feet above ground level.	7/1/2021	7/1/2021	Complete
4	A composite sample of sludge will be taken from tanks #1-6 in accordance with SW 846. The composite sample was analyzed and determined to be non-hazardous per RCRA 40 CFR Part 261, Toxicity Characteristic Leaching Procedure (TCLP). See attached test results.	7/7/2021	7/7/2021	Complete
5	Sludge in tanks #1-6 will be transferred to a roll-off container. Sludge will be shipped to an appropriate landfill.	7/22/2021	2/28/2022	Complete
6	Tanks #1-6 will be scraped and flushed. All cleaning and rinsing fluids will be containerized and characterized for disposal purposes at a permitted facility.	3/1/2022	3/25/2022	Complete
7	Tanks #1-6 will be cut up for scrap. The weight of the metal will be recorded.	4/1/2022	4/30/2022	Complete
8	All rinse water will be sent to appropriate water handlers for disposal.	4/1/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/15/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
9	In accordance with the provisions of 40 CFR part 279.54(h), all containers holding used oils or residues of used oil will be removed from the site.	5/5/2022	6/1/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/15/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
10	The boiler will be drained and dried and abandoned in place. Tanks #1-6 will be removed (task #7 above). All concrete surfaces shall undergo cleaning and rinsing (decontamination) to remove all oily residues (potentially hazardous waste). All cleaning and rinsing fluids shall be containerized and characterized for disposal purposes at a permitted facility. Upon the completion of the decontamination of surfaces, a visual inspection shall occur to determine if any potential breaches (significant cracks or joints are present). If there are no documented significant cracks (that penetrate containment fully), the surfaces shall have wipe testing (at each former tank location and the location of the boiler) to verify the presence of RCRA list inorganics. Should any of the inorganic concentrations exist at a concentration above the TCLP limit, or the theoretical toxicity limit, the surfaces shall undergo additional cleaning or scarification to remove the upper surface layers of concrete. Internal residue of the boiler shall also be tested by obtaining a sample of residue or wipe sampling for RCRA List inorganics.	8/1/2021	5/23/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/15/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
11	The concrete containment area where tank #3-4 are located on the facility map will be removed. The soil below the containment area that shows signs of petroleum staining will be excavated.	6/27/2022	7/11/2022	Complete
12	A GeoTech firm will conduct soil sampling at the perimeter of the secondary containment system. Sample intervals will be at approximately 50 linear feet intervals or a minimum of one from each side. A soil sample will be taken underneath the removed containment area. Additionally, one sample location will occur within the stormwater pond. All soil samples will be taken with a decontaminated hand auger advanced to a depth of four feet. At one-foot intervals, the soil will be field screened and visually inspected and evaluated for petroleum staining. Should no visual staining exist to termination depth, a surface sample consisting of the 0-1 foot interval will be collected and undergo analyses for RCRA List Inorganics. Logs will be noted in the field. Based on results of sampling a mitigation/soil removal plan will be developed.	7/15/2022	7/15/2022	Complete

**Merrifield Used Oil Processing Facility
Closure Plan Activities and Schedule
8/15/2022**

General Notes: **1.** FDEP will be notified at least 7 days prior to any physical closure activity. **2.** See attached daily activities reports and photo summary documents.

No.	Closure Activity	Start	Complete	Status
13	A Closure Report will be prepared and submitted to the Department as required in subsections 62-762.801, F.A.C., and 62-762.802, F.A.C. The report will describe the work that was performed at the facility during the system closure, and will include at a minimum the information and data listed in FDEP permit Part III, section 9.	8/15/2022	8/31/2022	Not Started

DAVID H. MELVIN ENGINEERING, INC.
DAILY REPORT OF CLOSURE
ACTIVITIES

Date: 07/20/2022	Project Number: MER22MO	Inspector: Destinee Wiggins
---------------------	----------------------------	--------------------------------

Remarks	
Activity: Excavation Soil Samples	
The containment area that showed cracking was excavated.	
Soil samples were taken at the site of excavation.	
Accidents: ☒ No ☐ Yes See Accident Report Dated: N/A	Day of Week: Wednesday
Visitors: ☒ No ☐ Yes	

TECHNICIAN'S SIGNATURE AND RATING:	HOURS AT JOB SITE		TOTAL HOURS
<i>Destinee Wiggins</i>	FROM: 10:00 a.m.	TO: 11:30 p.m.	1.5 hours

ENGINEER IN CHARGE (NAME, RANK AND INITIALS):	
William C. Nobles, P.E.	DATE: 07/20/2022

Site Visit Pictures 07/20/2022



Figure 1: Soil Sample



Figure 2: Soil Sample



Figure 3: Excavated Area

Soil & Wipe Sample Results

**MERRIFIELD RECYCLED OIL
SOIL SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
SB-1	06/01/2022 10:05	Arsenic	mg/kg	0.96	8.9	100	5
	06/01/2022 10:05	Barium	mg/kg	19.2	26.0	2000	100
	06/01/2022 10:05	Cadmium	mg/kg	0.48	ND	100	1
	06/01/2022 10:05	Chromium	mg/kg	0.96	24.5	100	5
	06/01/2022 10:05	Lead	mg/kg	0.48	16.1	100	5
	06/01/2022 10:05	Selenium	mg/kg	1.9	ND	100	1
	06/01/2022 10:05	Silver	mg/kg	0.96	ND	100	5
	06/01/2022 10:05	Mercury	mg/kg	0.019	0.022	20	0.2
SB-2	06/01/2022 10:20	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Barium	mg/kg	22.6	ND	2000	100
	06/01/2022 10:20	Cadmium	mg/kg	0.57	ND	100	1
	06/01/2022 10:20	Chromium	mg/kg	1.1	4.8	100	5
	06/01/2022 10:20	Lead	mg/kg	0.57	4.6	100	5
	06/01/2022 10:20	Selenium	mg/kg	2.3	ND	100	1
	06/01/2022 10:20	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Mercury	mg/kg	0.016	ND	20	0.2
SB-3	06/01/2022 10:40	Arsenic	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Barium	mg/kg	19.8	ND	2000	100
	06/01/2022 10:40	Cadmium	mg/kg	0.50	ND	100	1
	06/01/2022 10:40	Chromium	mg/kg	0.99	4.7	100	5
	06/01/2022 10:40	Lead	mg/kg	0.50	8.4	100	5
	06/01/2022 10:40	Selenium	mg/kg	2.0	ND	100	1
	06/01/2022 10:40	Silver	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Mercury	mg/kg	0.016	ND	20	0.2
SB-4	06/01/2022 10:58	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Barium	mg/kg	22.1	ND	2000	100
	06/01/2022 10:58	Cadmium	mg/kg	0.55	ND	100	1
	06/01/2022 10:58	Chromium	mg/kg	1.1	5.0	100	5
	06/01/2022 10:58	Lead	mg/kg	0.55	85.1	100	5
	06/01/2022 10:58	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 10:58	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Mercury	mg/kg	0.021	ND	20	0.2
SB-5	06/01/2022 11:15	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Barium	mg/kg	22.3	ND	2000	100
	06/01/2022 11:15	Cadmium	mg/kg	0.56	ND	100	1
	06/01/2022 11:15	Chromium	mg/kg	1.1	10.8	100	5
	06/01/2022 11:15	Lead	mg/kg	0.56	2.0	100	5
	06/01/2022 11:15	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 11:15	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Mercury	mg/kg	0.022	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-1	06/01/2022 10:32	Arsenic	Total ug	0.50	5.3	100,000	5,000
	06/01/2022 10:32	Barium	Total ug	10.0	2460	2,000,000	100,000
	06/01/2022 10:32	Cadmium	Total ug	0.25	0.39	100,000	1,000
	06/01/2022 10:32	Chromium	Total ug	0.50	11.2	1,000,000	5,000
	06/01/2022 10:32	Lead	Total ug	0.25	28.5	1,000,000	5,000
	06/01/2022 10:32	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:32	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:50	Mercury	Total ug	0.0060	ND	20,000	200
WS-2	06/01/2022 10:39	Arsenic	Total ug	0.50	1.2	100,000	5,000
	06/01/2022 10:39	Barium	Total ug	10.0	95.1	2,000,000	100,000
	06/01/2022 10:39	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:39	Chromium	Total ug	0.50	1.6	1,000,000	5,000
	06/01/2022 10:39	Lead	Total ug	0.25	2.3	1,000,000	5,000
	06/01/2022 10:39	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:39	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:55	Mercury	Total ug	0.0060	ND	20,000	200
WS-3	06/01/2022 10:44	Arsenic	Total ug	1.0	37.3	100,000	5,000
	06/01/2022 10:44	Barium	Total ug	20.0	2150	2,000,000	100,000
	06/01/2022 10:44	Cadmium	Total ug	0.50	ND	100,000	1,000
	06/01/2022 10:44	Chromium	Total ug	1.0	13.5	1,000,000	5,000
	06/01/2022 10:44	Lead	Total ug	0.50	66.7	1,000,000	5,000
	06/01/2022 10:44	Selenium	Total ug	3.5	ND	1,000,000	1,000
	06/01/2022 10:44	Silver	Total ug	1.0	ND	1,000,000	5,000
	06/09/2022 08:00	Mercury	Total ug	0.0060	ND	20,000	200
WS-4	06/01/2022 10:48	Arsenic	Total ug	0.50	4.6	100,000	5,000
	06/01/2022 10:48	Barium	Total ug	10.0	106	2,000,000	100,000
	06/01/2022 10:48	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:48	Chromium	Total ug	0.50	3.5	1,000,000	5,000
	06/01/2022 10:48	Lead	Total ug	0.25	7.2	1,000,000	5,000
	06/01/2022 10:48	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:48	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:05	Mercury	Total ug	0.0060	0.014	20,000	200
WS-5	06/01/2022 10:52	Arsenic	Total ug	0.50	1.9	100,000	5,000
	06/01/2022 10:52	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:52	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:52	Chromium	Total ug	0.50	3.0	1,000,000	5,000
	06/01/2022 10:52	Lead	Total ug	0.25	1.3	1,000,000	5,000
	06/01/2022 10:52	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:52	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:10	Mercury	Total ug	0.0060	ND	20,000	200
WS-6	06/01/2022 10:58	Arsenic	Total ug	0.50	0.54	100,000	5,000
	06/01/2022 10:58	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:58	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:58	Chromium	Total ug	0.50	0.59	1,000,000	5,000
	06/01/2022 10:58	Lead	Total ug	0.25	11.8	1,000,000	5,000
	06/01/2022 10:58	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:58	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:20	Mercury	Total ug	0.0060	0.011	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-7	06/01/2022 11:03	Arsenic	Total ug	0.50	0.91	100,000	5,000
	06/01/2022 11:03	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 11:03	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:03	Chromium	Total ug	0.50	6.6	1,000,000	5,000
	06/01/2022 11:03	Lead	Total ug	0.25	4.9	1,000,000	5,000
	06/01/2022 11:03	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:03	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:15	Mercury	Total ug	0.0060	0.016	20,000	200
WS-8	06/01/2022 11:10	Arsenic	Total ug	0.50	10.6	100,000	5,000
	06/01/2022 11:10	Barium	Total ug	10.0	136	2,000,000	100,000
	06/01/2022 11:10	Cadmium	Total ug	0.25	0.80	100,000	1,000
	06/01/2022 11:10	Chromium	Total ug	0.50	21.9	1,000,000	5,000
	06/01/2022 11:10	Lead	Total ug	0.25	39.5	1,000,000	5,000
	06/01/2022 11:10	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:10	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:25	Mercury	Total ug	0.0060	0.011	20,000	200
WS-9	06/01/2022 11:15	Arsenic	Total ug	0.50	8.8	100,000	5,000
	06/01/2022 11:15	Barium	Total ug	10.0	534	2,000,000	100,000
	06/01/2022 11:15	Cadmium	Total ug	0.25	0.31	100,000	1,000
	06/01/2022 11:15	Chromium	Total ug	0.50	11.9	1,000,000	5,000
	06/01/2022 11:15	Lead	Total ug	0.25	87.6	1,000,000	5,000
	06/01/2022 11:15	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:15	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:30	Mercury	Total ug	0.0060	0.012	20,000	200
WS-10	06/01/2022 11:20	Arsenic	Total ug	0.50	5.1	100,000	5,000
	06/01/2022 11:20	Barium	Total ug	10.0	327	2,000,000	100,000
	06/01/2022 11:20	Cadmium	Total ug	0.25	0.40	100,000	1,000
	06/01/2022 11:20	Chromium	Total ug	0.50	36.9	1,000,000	5,000
	06/01/2022 11:20	Lead	Total ug	0.25	138	1,000,000	5,000
	06/01/2022 11:20	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:20	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:35	Mercury	Total ug	0.0060	0.020	20,000	200
WS-11	06/01/2022 11:24	Arsenic	Total ug	0.50	2.8	100,000	5,000
	06/01/2022 11:24	Barium	Total ug	10.0	17.5	2,000,000	100,000
	06/01/2022 11:24	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:24	Chromium	Total ug	0.50	2.8	1,000,000	5,000
	06/01/2022 11:24	Lead	Total ug	0.25	11.1	1,000,000	5,000
	06/01/2022 11:24	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:24	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:40	Mercury	Total ug	0.0060	0.0096	20,000	200
WS-12	06/01/2022 11:28	Arsenic	Total ug	5.0	10.3	100,000	5,000
	06/01/2022 11:28	Barium	Total ug	100	261	2,000,000	100,000
	06/01/2022 11:28	Cadmium	Total ug	2.5	8.1	100,000	1,000
	06/01/2022 11:28	Chromium	Total ug	5.0	49.1	1,000,000	5,000
	06/01/2022 11:28	Lead	Total ug	2.5	205	1,000,000	5,000
	06/01/2022 11:28	Selenium	Total ug	17.5	ND	1,000,000	1,000
	06/01/2022 11:28	Silver	Total ug	5.0	ND	1,000,000	5,000
	06/09/2022 08:45	Mercury	Total ug	0.0060	0.022	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

**MERRIFIELD RECYCLED OIL
SOIL SAMPLES - POST EXCAVATION
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO**

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
East	07/20/2022 10:15	Arsenic	mg/kg	0.88	1.0	100	5
	07/20/2022 10:15	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:15	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:15	Chromium	mg/kg	0.88	5.2	100	5
	07/20/2022 10:15	Lead	mg/kg	0.44	26.0	100	5
	07/20/2022 10:15	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:15	Silver	mg/kg	0.88	ND	100	5
	07/20/2022 10:15	Mercury	mg/kg	0.017	ND	20	0.2
Mid*****	07/21/2022 10:30	Arsenic	mg/kg	0.79	1.3	100	5
	07/21/2022 10:30	Barium	mg/kg	15.7	29.2	2000	100
	07/21/2022 10:30	Cadmium	mg/kg	0.39	ND	100	1
	07/21/2022 10:30	Chromium	mg/kg	0.79	13.8	100	5
	07/21/2022 10:30	Lead	mg/kg	0.39	9.3	100	5
	07/21/2022 10:30	Selenium	mg/kg	1.6	ND	100	1
	07/21/2022 10:30	Silver	mg/kg	0.79	ND	100	5
	07/21/2022 10:30	Mercury	mg/kg	0.023	ND	20	0.2
North	07/20/2022 10:35	Arsenic	mg/kg	0.85	1.2	100	5
	07/20/2022 10:35	Barium	mg/kg	16.9	32.9	2000	100
	07/20/2022 10:35	Cadmium	mg/kg	0.42	0.62	100	1
	07/20/2022 10:35	Chromium	mg/kg	0.85	11.8	100	5
	07/20/2022 10:35	Lead	mg/kg	0.42	13.4	100	5
	07/20/2022 10:35	Selenium	mg/kg	1.7	ND	100	1
	07/20/2022 10:35	Silver	mg/kg	0.85	ND	100	5
	07/20/2022 10:35	Mercury	mg/kg	0.020	0.41	20	0.2
South	07/20/2022 10:20	Arsenic	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:20	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:20	Chromium	mg/kg	0.89	2.7	100	5
	07/20/2022 10:20	Lead	mg/kg	0.44	3.3	100	5
	07/20/2022 10:20	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:20	Silver	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Mercury	mg/kg	0.017	ND	20	0.2
West	07/20/2022 10:40	Arsenic	mg/kg	1.2	1.8	100	5
	07/20/2022 10:40	Barium	mg/kg	23.2	26.9	2000	100
	07/20/2022 10:40	Cadmium	mg/kg	0.58	ND	100	1
	07/20/2022 10:40	Chromium	mg/kg	1.2	13.9	100	5
	07/20/2022 10:40	Lead	mg/kg	0.58	32.4	100	5
	07/20/2022 10:40	Selenium	mg/kg	2.3	ND	100	1
	07/20/2022 10:40	Silver	mg/kg	1.2	ND	100	5
	07/20/2022 10:40	Mercury	mg/kg	0.019	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit
4. "*****" denotes incorrect sampling date on chain-of-custody. Sample collected on 7/20/22.

Attachment E

Geotechnical Closure Report

August 29, 2022

In Care of c/o Mr. Bill Nobles, P.E.

Mr. Jim Merrifield, Owner
3053 Barnes Lane
Cottondale, Florida 32431

Re: Closure Sampling and Removal
J.E. Merrifield, Inc.
dba Merrifield Recycled Oil
3053 Barnes Lane
Cottondale, Florida
FDEP Permit No.: 65796-005-HO

Dear Mr. Merrifield:

SOUTHERN EARTH SCIENCES, INC. (SESI) has completed soil and wipe sampling at the above referenced facility. The soil and wipe sampling are a portion of the requirements for closure of the Merrifield Recycled Oil Facility. Activities performed were outlined and submitted to the Florida Department of Environmental Protection (FDEP) via Melvin Engineering. A facility diagram, prior to removal of facility equipment, is presented as **Figure 1**.

Facility Inspection

Based on FDEP response to photographs of inspections, potential significant cracks were noted following the completion of the removal of the above ground storage tanks (ASTs) at the facility.

On May 12, 2022, SESI cored the most significant cracks within the containment area. Coring of the two cracks indicated the northern portion of the containment area did not have cracks that penetrated through the concrete and into the soil.

The significant crack located at the southern end of the containment was found to extend to the soil beneath the containment. It was determined the slab would be removed and visibly impacted soils would be excavated for disposal. Merrifield Recycled Oil personnel performed excavation and arranged disposal of the material.

Excavation was performed and post-excavation samples were collected on July 20, 2022. The samples were collected from the bottom and the sidewalls of the excavation (**Figure 2**). None of the samples reported concentrations of RCRA List Inorganics that would theoretically fail the TCLP extraction based on the twenty (20) times acidic dilution.

For TCLP extraction for solids, a twenty times dilution of an acid, by weight is performed prior to pressure extraction of the liquid. Due to the dilution, characterization sampling does not occur if the totals concentration is below the 20 times dilution.

A summary of the laboratory analyses for the post-excavation sampling is presented as **Table 1**. A copy of the disposal documentation for the excavated soil is presented in **Appendix A**. A total of 20.29 tons underwent disposal as non-hazardous material. Laboratory analyses was conducted by Pace Analytical. A complete copy of the analytical report is presented in **Appendix B**.

Soil Sampling

The Closure Plan specified the collection of five soil samples around containment for the verification of inorganic content of soils as compared to the toxicity characteristic leaching procedure (TCLP).

SESI advanced five soil borings (SB-1 to SB-5) around the perimeter of the facility (**Figure 3**) on June 1, 2022. The borings were advanced to a total depth of four feet below land surface. There was no oil visibly noted within the borings. As specified within the Closure Plan, SESI sampled the 0-1 foot interval for RCRA List Inorganics.

None of the soil samples indicated RCRA List Inorganic concentrations that were above the 20 times TCLP theoretical limit.

A summary of the laboratory analyses for the soil sampling is presented as **Table 2**. Laboratory analyses was conducted by Pace Analytical. A complete copy of the analytical report is presented in **Appendix B**. Boring logs are presented in **Appendix C**.

Wipe Sampling

The Closure Plan detailed the washing and collection of fluids for the containment areas at the facility. Following the completion of these activities, SESI collected surficial wipe samples as outlined within the Closure Plan. The samples were collected on June 1, 2022. Due to a lab discrepancy with the wipe sample analysis, mercury was omitted. Additional wipes were collected on June 9, 2022 adjacent to the original wipe locations for analyses for mercury. Sample locations are illustrated on **Figure 4**.

The wipes underwent analyses for RCRA List Inorganics for total concentration. There were no wipe concentrations for total inorganic content that exceeded the TCLP limits.

A summary of the laboratory analyses for the soil sampling is presented as **Table 3**. Laboratory analyses was conducted by Pace Analytical. A complete copy of the analytical report is presented in **Appendix B**.

Documentation for Facility Closure

JE Merrifield, Inc. began closure activities in March 2021. As part of the activities, Merrifield Recycled Oil generated sludge, rinse water, and scrap metal.

The process of closure has generated a total of 50,420 pounds of scrap metal.

The closure process generated a total of 4,200 gallons of rinsewater from decontamination activities.

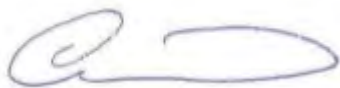
The closure process generated a total of 27.965 tons of sludge.

Copies of manifests, waste profiles, and weight tickets are presented within **Appendix D**.

The remaining equipment utilized by Merrifield Recycled Oil (boiler) has been abandoned on-site. The furnace unit from the boiler has been removed and the unit is inoperable. A wipe sample (WS-6) was collected from the interior of the boiler and does not indicate the residue to be characteristically hazardous.

Sampling activities were conducted by Southern Earth Sciences, Inc. Merrifield Recycled Oil personnel performed all washing, rinsing and waste generation. Melvin Engineering conducted and periodically documented and updated the Florida Department of Environmental Protection on the site activities.

SOUTHERN EARTH SCIENCES, INC.
Sincerely,

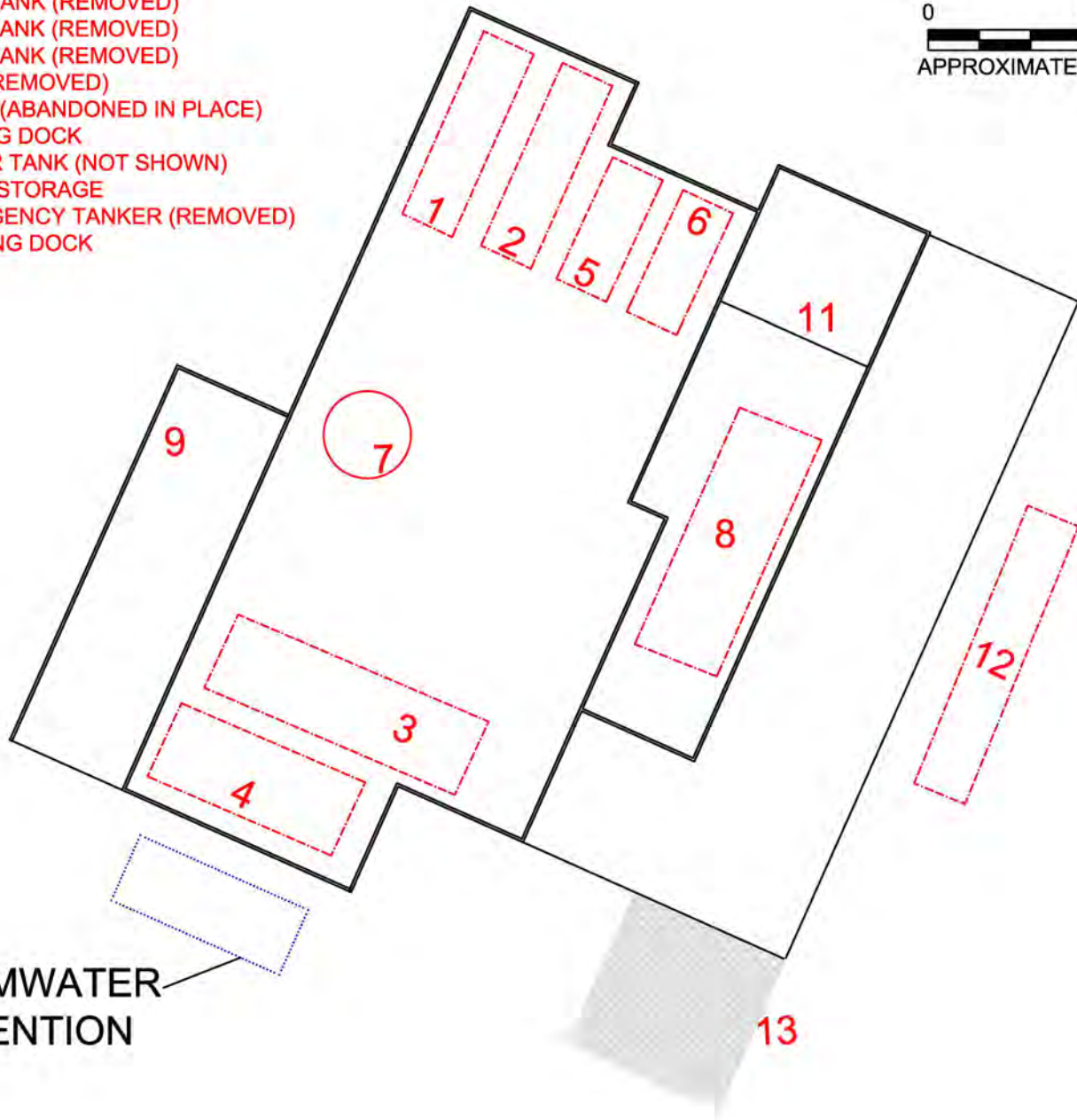
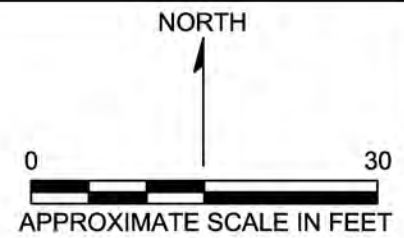


Eric A. Guarino, P.G
Registered, Florida No. 2490

FIGURES

SITE AREAS

- 1- 12,000 TANK (REMOVED)
- 2-12,000 TANK (REMOVED)
- 3-10,000 TANK (REMOVED)
- 4-11,000 TANK (REMOVED)
- 5-15,000 TANK (REMOVED)
- 6-13,000 TANK (REMOVED)
- 7-PUMP (REMOVED)
- 8-BOILER (ABANDONED IN PLACE)
- 9-LOADING DOCK
- 10-WATER TANK (NOT SHOWN)
- 11-DRUM STORAGE
- 12-EMERGENCY TANKER (REMOVED)
- 13-LOADING DOCK



STORMWATER
RETENTION

**DRAWING DERIVED FROM SITE LAYOUT FROM DAVID H. MELVIN ENGINEERING*

J.E. MERRIFIELD, INC.
DBA
MERRIFIELD RECYCLED OIL
FLD-981-752-041
COTTONDALE, FLORIDA



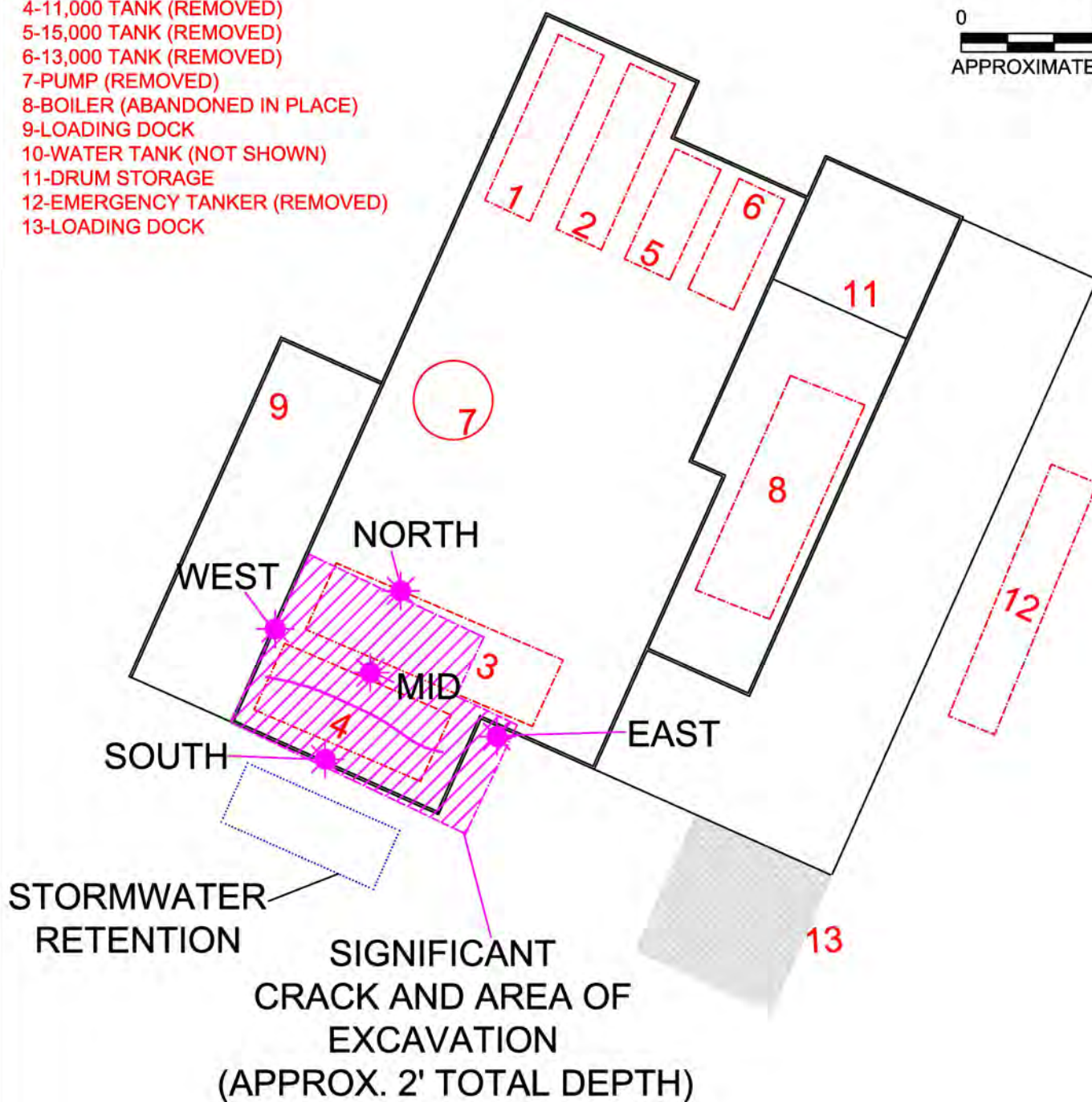
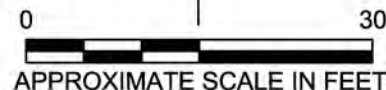
**SOUTHERN
EARTH SCIENCES**
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FIGURE 1
SITE PLAN
SESI PROJECT No.: M22-350

SITE AREAS

- 1- 12,000 TANK (REMOVED)
- 2-12,000 TANK (REMOVED)
- 3-10,000 TANK (REMOVED)
- 4-11,000 TANK (REMOVED)
- 5-15,000 TANK (REMOVED)
- 6-13,000 TANK (REMOVED)
- 7-PUMP (REMOVED)
- 8-BOILER (ABANDONED IN PLACE)
- 9-LOADING DOCK
- 10-WATER TANK (NOT SHOWN)
- 11-DRUM STORAGE
- 12-EMERGENCY TANKER (REMOVED)
- 13-LOADING DOCK

NORTH



- EXCAVATION SAMPLE

*DRAWING DERIVED FROM SITE LAYOUT FROM DAVID H. MELVIN ENGINEERING

J.E. MERRIFIELD, INC.
DBA
MERRIFIELD RECYCLED OIL
FLD-981-752-041
COTTONDALE, FLORIDA



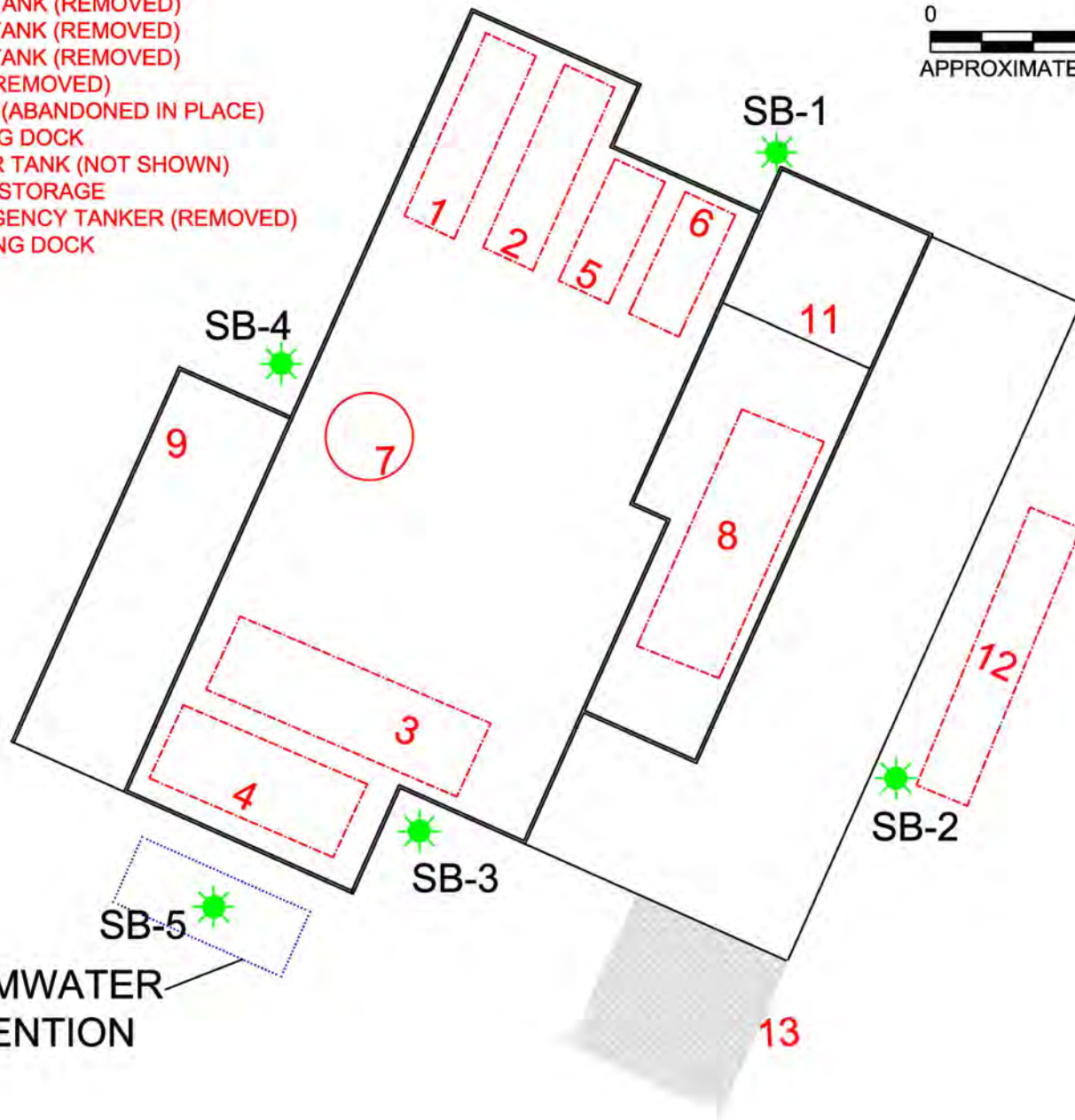
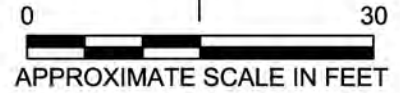
**SOUTHERN
EARTH SCIENCES**
Geotechnical | Environmental | Materials Testing

FIGURE 2
EXCAVATION AND SAMPLE
LOCATION PLAN
SESI PROJECT No.: M22-350

SITE AREAS

- 1- 12,000 TANK (REMOVED)
- 2-12,000 TANK (REMOVED)
- 3-10,000 TANK (REMOVED)
- 4-11,000 TANK (REMOVED)
- 5-15,000 TANK (REMOVED)
- 6-13,000 TANK (REMOVED)
- 7-PUMP (REMOVED)
- 8-BOILER (ABANDONED IN PLACE)
- 9-LOADING DOCK
- 10-WATER TANK (NOT SHOWN)
- 11-DRUM STORAGE
- 12-EMERGENCY TANKER (REMOVED)
- 13-LOADING DOCK

NORTH



SOIL BORING

*DRAWING DERIVED FROM SITE LAYOUT FROM DAVID H. MELVIN ENGINEERING

J.E. MERRIFIELD, INC.
DBA
MERRIFIELD RECYCLED OIL
FLD-981-752-041
COTTONDALE, FLORIDA



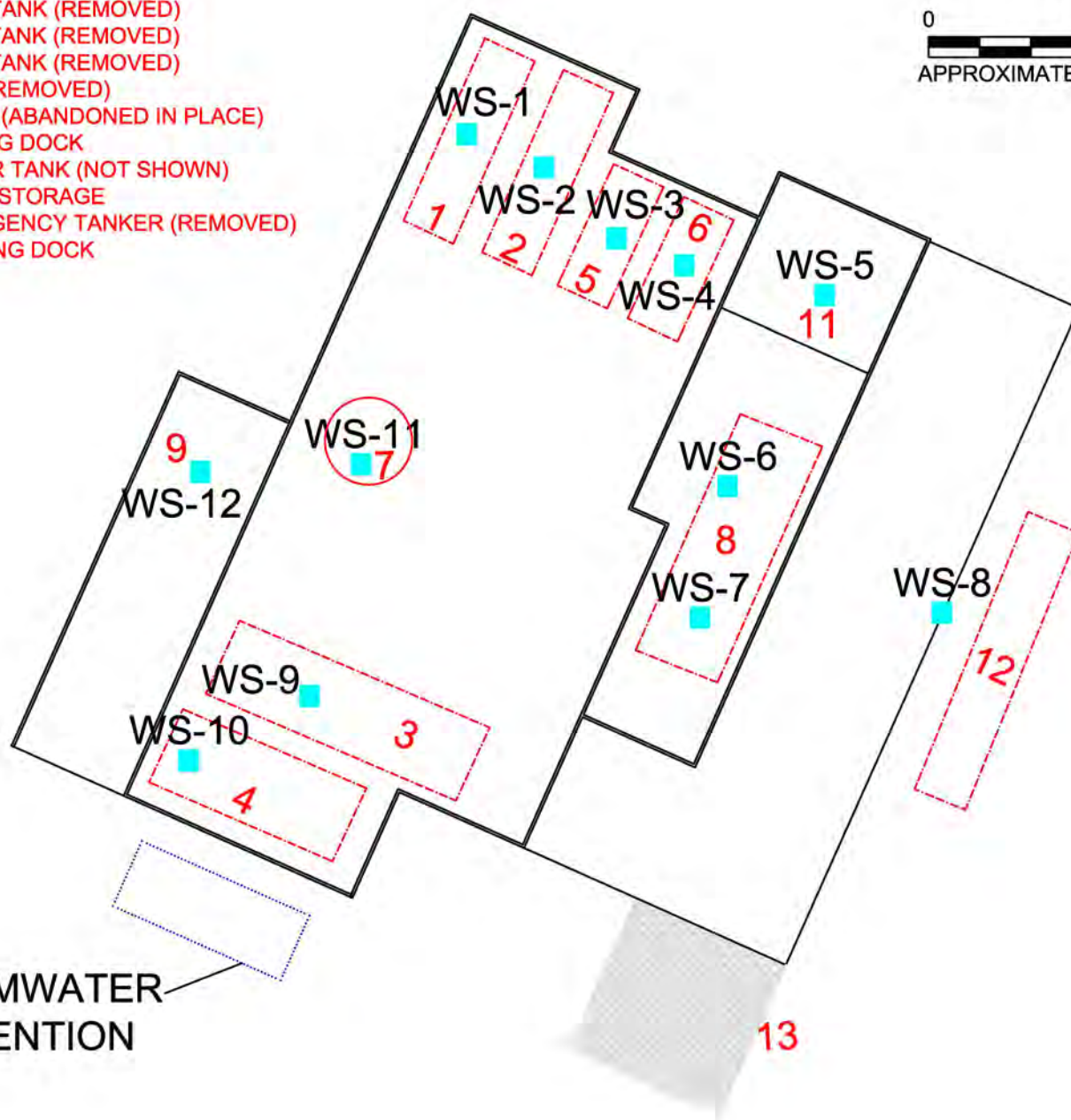
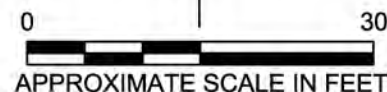
**SOUTHERN
EARTH SCIENCES**
Geotechnical | Environmental | Materials Testing

FIGURE 3
SOIL BORING AND SAMPLE
LOCATION PLAN
SESI PROJECT No.: M22-350

SITE AREAS

- 1- 12,000 TANK (REMOVED)
- 2-12,000 TANK (REMOVED)
- 3-10,000 TANK (REMOVED)
- 4-11,000 TANK (REMOVED)
- 5-15,000 TANK (REMOVED)
- 6-13,000 TANK (REMOVED)
- 7-PUMP (REMOVED)
- 8-BOILER (ABANDONED IN PLACE)
- 9-LOADING DOCK
- 10-WATER TANK (NOT SHOWN)
- 11-DRUM STORAGE
- 12-EMERGENCY TANKER (REMOVED)
- 13-LOADING DOCK

NORTH



■ - WIPE SAMPLE

*DRAWING DERIVED FROM SITE LAYOUT FROM DAVID H. MELVIN ENGINEERING

J.E. MERRIFIELD, INC.
DBA
MERRIFIELD RECYCLED OIL
FLD-981-752-041
COTTONDALE, FLORIDA



**SOUTHERN
EARTH SCIENCES**
Geotechnical | Environmental | Materials Testing

FIGURE 4
WIPE SAMPLE
LOCATION PLAN
SESI PROJECT No.: M22-350

TABLES

TABLE 1
MERRIFIELD RECYCLED OIL
SOIL SAMPLES - POST EXCAVATION
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
East	07/20/2022 10:15	Arsenic	mg/kg	0.88	1.0	100	5
	07/20/2022 10:15	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:15	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:15	Chromium	mg/kg	0.88	5.2	100	5
	07/20/2022 10:15	Lead	mg/kg	0.44	26.0	100	5
	07/20/2022 10:15	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:15	Silver	mg/kg	0.88	ND	100	5
Mid*****	07/20/2022 10:15	Mercury	mg/kg	0.017	ND	20	0.2
	07/21/2022 10:30	Arsenic	mg/kg	0.79	1.3	100	5
	07/21/2022 10:30	Barium	mg/kg	15.7	29.2	2000	100
	07/21/2022 10:30	Cadmium	mg/kg	0.39	ND	100	1
	07/21/2022 10:30	Chromium	mg/kg	0.79	13.8	100	5
	07/21/2022 10:30	Lead	mg/kg	0.39	9.3	100	5
	07/21/2022 10:30	Selenium	mg/kg	1.6	ND	100	1
North	07/21/2022 10:30	Silver	mg/kg	0.79	ND	100	5
	07/21/2022 10:30	Mercury	mg/kg	0.023	ND	20	0.2
	07/20/2022 10:35	Arsenic	mg/kg	0.85	1.2	100	5
	07/20/2022 10:35	Barium	mg/kg	16.9	32.9	2000	100
	07/20/2022 10:35	Cadmium	mg/kg	0.42	0.62	100	1
	07/20/2022 10:35	Chromium	mg/kg	0.85	11.8	100	5
	07/20/2022 10:35	Lead	mg/kg	0.42	13.4	100	5
South	07/20/2022 10:35	Selenium	mg/kg	1.7	ND	100	1
	07/20/2022 10:35	Silver	mg/kg	0.85	ND	100	5
	07/20/2022 10:35	Mercury	mg/kg	0.020	0.41	20	0.2
	07/20/2022 10:20	Arsenic	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Barium	mg/kg	17.7	ND	2000	100
	07/20/2022 10:20	Cadmium	mg/kg	0.44	ND	100	1
	07/20/2022 10:20	Chromium	mg/kg	0.89	2.7	100	5
West	07/20/2022 10:20	Lead	mg/kg	0.44	3.3	100	5
	07/20/2022 10:20	Selenium	mg/kg	1.8	ND	100	1
	07/20/2022 10:20	Silver	mg/kg	0.89	ND	100	5
	07/20/2022 10:20	Mercury	mg/kg	0.017	ND	20	0.2
	07/20/2022 10:40	Arsenic	mg/kg	1.2	1.8	100	5
	07/20/2022 10:40	Barium	mg/kg	23.2	26.9	2000	100
	07/20/2022 10:40	Cadmium	mg/kg	0.58	ND	100	1
	07/20/2022 10:40	Chromium	mg/kg	1.2	13.9	100	5
	07/20/2022 10:40	Lead	mg/kg	0.58	32.4	100	5
	07/20/2022 10:40	Selenium	mg/kg	2.3	ND	100	1
	07/20/2022 10:40	Silver	mg/kg	1.2	ND	100	5
	07/20/2022 10:40	Mercury	mg/kg	0.019	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit
4. "*****" denotes incorrect sampling date on chain-of-custody. Sample collected on 7/20/22.

TABLE 2
MERRIFIELD RECYCLED OIL
SOIL SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20 Times Dilution) (mg/kg)	TCLP Limit (mg/L)
SB-1	06/01/2022 10:05	Arsenic	mg/kg	0.96	8.9	100	5
	06/01/2022 10:05	Barium	mg/kg	19.2	26.0	2000	100
	06/01/2022 10:05	Cadmium	mg/kg	0.48	ND	100	1
	06/01/2022 10:05	Chromium	mg/kg	0.96	24.5	100	5
	06/01/2022 10:05	Lead	mg/kg	0.48	16.1	100	5
	06/01/2022 10:05	Selenium	mg/kg	1.9	ND	100	1
	06/01/2022 10:05	Silver	mg/kg	0.96	ND	100	5
SB-2	06/01/2022 10:05	Mercury	mg/kg	0.019	0.022	20	0.2
	06/01/2022 10:20	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Barium	mg/kg	22.6	ND	2000	100
	06/01/2022 10:20	Cadmium	mg/kg	0.57	ND	100	1
	06/01/2022 10:20	Chromium	mg/kg	1.1	4.8	100	5
	06/01/2022 10:20	Lead	mg/kg	0.57	4.6	100	5
	06/01/2022 10:20	Selenium	mg/kg	2.3	ND	100	1
SB-3	06/01/2022 10:20	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:20	Mercury	mg/kg	0.016	ND	20	0.2
	06/01/2022 10:40	Arsenic	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Barium	mg/kg	19.8	ND	2000	100
	06/01/2022 10:40	Cadmium	mg/kg	0.50	ND	100	1
	06/01/2022 10:40	Chromium	mg/kg	0.99	4.7	100	5
	06/01/2022 10:40	Lead	mg/kg	0.50	8.4	100	5
SB-4	06/01/2022 10:40	Selenium	mg/kg	2.0	ND	100	1
	06/01/2022 10:40	Silver	mg/kg	0.99	ND	100	5
	06/01/2022 10:40	Mercury	mg/kg	0.016	ND	20	0.2
	06/01/2022 10:58	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Barium	mg/kg	22.1	ND	2000	100
	06/01/2022 10:58	Cadmium	mg/kg	0.55	ND	100	1
	06/01/2022 10:58	Chromium	mg/kg	1.1	5.0	100	5
SB-5	06/01/2022 10:58	Lead	mg/kg	0.55	85.1	100	5
	06/01/2022 10:58	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 10:58	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 10:58	Mercury	mg/kg	0.021	ND	20	0.2
	06/01/2022 11:15	Arsenic	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Barium	mg/kg	22.3	ND	2000	100
	06/01/2022 11:15	Cadmium	mg/kg	0.56	ND	100	1
SB-5	06/01/2022 11:15	Chromium	mg/kg	1.1	10.8	100	5
	06/01/2022 11:15	Lead	mg/kg	0.56	2.0	100	5
	06/01/2022 11:15	Selenium	mg/kg	2.2	ND	100	1
	06/01/2022 11:15	Silver	mg/kg	1.1	ND	100	5
	06/01/2022 11:15	Mercury	mg/kg	0.022	ND	20	0.2

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

TABLE 3
MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-1	06/01/2022 10:32	Arsenic	Total ug	0.50	5.3	100,000	5,000
	06/01/2022 10:32	Barium	Total ug	10.0	2460	2,000,000	100,000
	06/01/2022 10:32	Cadmium	Total ug	0.25	0.39	100,000	1,000
	06/01/2022 10:32	Chromium	Total ug	0.50	11.2	1,000,000	5,000
	06/01/2022 10:32	Lead	Total ug	0.25	28.5	1,000,000	5,000
	06/01/2022 10:32	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:32	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:50	Mercury	Total ug	0.0060	ND	20,000	200
WS-2	06/01/2022 10:39	Arsenic	Total ug	0.50	1.2	100,000	5,000
	06/01/2022 10:39	Barium	Total ug	10.0	95.1	2,000,000	100,000
	06/01/2022 10:39	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:39	Chromium	Total ug	0.50	1.6	1,000,000	5,000
	06/01/2022 10:39	Lead	Total ug	0.25	2.3	1,000,000	5,000
	06/01/2022 10:39	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:39	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 07:55	Mercury	Total ug	0.0060	ND	20,000	200
WS-3	06/01/2022 10:44	Arsenic	Total ug	1.0	37.3	100,000	5,000
	06/01/2022 10:44	Barium	Total ug	20.0	2150	2,000,000	100,000
	06/01/2022 10:44	Cadmium	Total ug	0.50	ND	100,000	1,000
	06/01/2022 10:44	Chromium	Total ug	1.0	13.5	1,000,000	5,000
	06/01/2022 10:44	Lead	Total ug	0.50	66.7	1,000,000	5,000
	06/01/2022 10:44	Selenium	Total ug	3.5	ND	1,000,000	1,000
	06/01/2022 10:44	Silver	Total ug	1.0	ND	1,000,000	5,000
	06/09/2022 08:00	Mercury	Total ug	0.0060	ND	20,000	200
WS-4	06/01/2022 10:48	Arsenic	Total ug	0.50	4.6	100,000	5,000
	06/01/2022 10:48	Barium	Total ug	10.0	106	2,000,000	100,000
	06/01/2022 10:48	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:48	Chromium	Total ug	0.50	3.5	1,000,000	5,000
	06/01/2022 10:48	Lead	Total ug	0.25	7.2	1,000,000	5,000
	06/01/2022 10:48	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:48	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:05	Mercury	Total ug	0.0060	0.014	20,000	200
WS-5	06/01/2022 10:52	Arsenic	Total ug	0.50	1.9	100,000	5,000
	06/01/2022 10:52	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:52	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:52	Chromium	Total ug	0.50	3.0	1,000,000	5,000
	06/01/2022 10:52	Lead	Total ug	0.25	1.3	1,000,000	5,000
	06/01/2022 10:52	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:52	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:10	Mercury	Total ug	0.0060	ND	20,000	200
WS-6	06/01/2022 10:58	Arsenic	Total ug	0.50	0.54	100,000	5,000
	06/01/2022 10:58	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 10:58	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 10:58	Chromium	Total ug	0.50	0.59	1,000,000	5,000
	06/01/2022 10:58	Lead	Total ug	0.25	11.8	1,000,000	5,000
	06/01/2022 10:58	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 10:58	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:20	Mercury	Total ug	0.0060	0.011	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

TABLE 3
MERRIFIELD RECYCLED OIL
SURFACE WIPE SAMPLES
FACILITY ID No. FLD981752041
PERMIT No. 65796-005-HO

Sample ID	Collected Date	Parameter	Units	PQL	Results	Theoretical TCLP for Solid (20x Dilution) (ug/kg)	TCLP Limit (ug/L)
WS-7	06/01/2022 11:03	Arsenic	Total ug	0.50	0.91	100,000	5,000
	06/01/2022 11:03	Barium	Total ug	10.0	ND	2,000,000	100,000
	06/01/2022 11:03	Cadmium	Total ug	0.25	ND	100,000	1,000
	06/01/2022 11:03	Chromium	Total ug	0.50	6.6	1,000,000	5,000
	06/01/2022 11:03	Lead	Total ug	0.25	4.9	1,000,000	5,000
	06/01/2022 11:03	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:03	Silver	Total ug	0.50	ND	1,000,000	5,000
WS-8	06/09/2022 08:15	Mercury	Total ug	0.0060	0.016	20,000	200
	06/01/2022 11:10	Arsenic	Total ug	0.50	10.6	100,000	5,000
	06/01/2022 11:10	Barium	Total ug	10.0	136	2,000,000	100,000
	06/01/2022 11:10	Cadmium	Total ug	0.25	0.80	100,000	1,000
	06/01/2022 11:10	Chromium	Total ug	0.50	21.9	1,000,000	5,000
	06/01/2022 11:10	Lead	Total ug	0.25	39.5	1,000,000	5,000
	06/01/2022 11:10	Selenium	Total ug	1.8	ND	1,000,000	1,000
WS-9	06/01/2022 11:10	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:25	Mercury	Total ug	0.0060	0.011	20,000	200
	06/01/2022 11:15	Arsenic	Total ug	0.50	8.8	100,000	5,000
	06/01/2022 11:15	Barium	Total ug	10.0	534	2,000,000	100,000
	06/01/2022 11:15	Cadmium	Total ug	0.25	0.31	100,000	1,000
	06/01/2022 11:15	Chromium	Total ug	0.50	11.9	1,000,000	5,000
	06/01/2022 11:15	Lead	Total ug	0.25	87.6	1,000,000	5,000
WS-10	06/01/2022 11:15	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:15	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:30	Mercury	Total ug	0.0060	0.012	20,000	200
	06/01/2022 11:20	Arsenic	Total ug	0.50	5.1	100,000	5,000
	06/01/2022 11:20	Barium	Total ug	10.0	327	2,000,000	100,000
	06/01/2022 11:20	Cadmium	Total ug	0.25	0.40	100,000	1,000
	06/01/2022 11:20	Chromium	Total ug	0.50	36.9	1,000,000	5,000
WS-11	06/01/2022 11:20	Lead	Total ug	0.25	138	1,000,000	5,000
	06/01/2022 11:20	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:20	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:35	Mercury	Total ug	0.0060	0.020	20,000	200
	06/01/2022 11:24	Arsenic	Total ug	0.50	2.8	100,000	5,000
	06/01/2022 11:24	Barium	Total ug	10.0	17.5	2,000,000	100,000
	06/01/2022 11:24	Cadmium	Total ug	0.25	ND	100,000	1,000
WS-12	06/01/2022 11:24	Chromium	Total ug	0.50	2.8	1,000,000	5,000
	06/01/2022 11:24	Lead	Total ug	0.25	11.1	1,000,000	5,000
	06/01/2022 11:24	Selenium	Total ug	1.8	ND	1,000,000	1,000
	06/01/2022 11:24	Silver	Total ug	0.50	ND	1,000,000	5,000
	06/09/2022 08:40	Mercury	Total ug	0.0060	0.0096	20,000	200
	06/01/2022 11:28	Arsenic	Total ug	5.0	10.3	100,000	5,000
	06/01/2022 11:28	Barium	Total ug	100	261	2,000,000	100,000
WS-12	06/01/2022 11:28	Cadmium	Total ug	2.5	8.1	100,000	1,000
	06/01/2022 11:28	Chromium	Total ug	5.0	49.1	1,000,000	5,000
	06/01/2022 11:28	Lead	Total ug	2.5	205	1,000,000	5,000
	06/01/2022 11:28	Selenium	Total ug	17.5	ND	1,000,000	1,000
	06/01/2022 11:28	Silver	Total ug	5.0	ND	1,000,000	5,000
	06/09/2022 08:45	Mercury	Total ug	0.0060	0.022	20,000	200

Notes

1. See Figure for Sample Location
2. Units are as listed.
3. PQL is the Practical Quantification Limit

APPENDIX A



Springhill Landfill Waste Management
4945 Highway 273
Campbellton, FL, 32426
Ph: 850-263-5953

Original
Ticket# 1215156

Customer Name CASHCUSTOMER CASH CUSTOMER Carrier PANHANDLEHAULING PANHANDLE HAULING
Address 4945 HIGHWAY 273
CAMPBELLTON, FL, 32426

Ticket Date 07/28/2022 Vehicle# 800 Volume
Payment Type Credit Card Container
Manual Ticket# Driver
Hauling Ticket# Check# C
Route Billing # 0000006
State Waste Code Gen EPA ID NR
Manifest XXXX
Destination
PO
Profile 412892FL (NONHAZ OIL/WATER SEPARATOR SLUDGE (WM002A))
Generator 149-MERRIFIELD MERRIFIELD RECYC

	Time	Scale	Operator	Inbound	Gross	
In	07/28/2022 10:38:22	Scale1	PALEN		28620 lb	
Out	07/28/2022 10:57:14	Scale1	PALEN		40580 lb	
					Tons	20.29

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 NONHAZ OIL/WATER S	100	20.29	Tons	40.00		\$811.60	JACKSON, F
2 EVF-P-Standard Env	100		%	20.00		\$162.32	
3 FUEL-Fuel Surcharg	100		%	12.96		\$105.18	
4 RCR-P-Regulatory C	100		%	3.60		\$29.22	
5 WWM-P-Waste Water	100		%	11.10		\$90.09	

Total Fees
Total Ticket \$1198.41

Driver's Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: J.E. MERRIFIELD, INC. P.O. BOX 550 COTTONDALE, FL 32431				Generator's Site Address (if different than mailing): MERRIFIELD RECYCLING OIL 3053 BARNES LANE COTTONDALE, FL 32431		A. Manifest Number WMNA		
4. Generator's Phone 850-209-2336						B. State Generator's ID		
5. Transporter 1 Company Name <i>Pay handle Hauling</i>				6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name <i>800</i>				8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Regional Landfill 4945 Highway 273 Campbellton, FL 32326				10. US EPA ID Number 0630045 - 006AV		E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility ID		
						H. State Facility Phone 850.263.7100		
11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
				No.	Type			
GENERATOR	a. NONHAZ OIL/WATER SEPARATOR SLUDGE <i>Oil & Dirt</i>							
	WM Profile # 412892FL							
	b.							
	WM Profile # <i>1</i>							
	c.							
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above				K. Disposal Location				
				Cell		Level		
				Grid				
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Jim Merrifield</i>				Signature <i>[Signature]</i>		Month <i>7</i>	Day <i>23</i>	Year <i>22</i>
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed Name <i>Ronald G. Pless</i>		Signature <i>[Signature]</i>		Month <i>7</i>	Day <i>23</i>	Year <i>22</i>	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials							
	Printed Name		Signature		Month	Day	Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month <i>7</i>	Day <i>25</i>	Year <i>22</i>

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY.

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Profile Amendment Request Form

Jim Merrifield

(Contact Name)

hereby requests an amendment to WMI profile #: 412892FL

to include the following:

Amendment Type: ☐ One Time Only Request (Event) ☒ Permanent Addition to Profile (Base)

☐ Additional Analytical/MSDS to be added to profile (see attached)

☒ Volume Increase (specify volume) 20 ☒ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify) _____

☒ Constituent(s) to be added and/or modify current range in chemical composition:

Chemicals or constituents to be added/modify	Low	High	Units
<u>oil soil</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Change current ranges on profile (specify below)

pH Range _____ to _____ Free Liquid Range _____ to _____

☐ Other (specify) _____

GENERATOR CERTIFICATION

By signing this form, the Generator hereby certifies:

The information provided in this document, the referenced Waste Management Generator's Waste Profile Sheet, and all other referenced documents contain true and accurate descriptions of the waste material. All information regarding known or suspected hazards in the possession of the Generator has been disclosed.

Generator/Customer Signature: Jim Merrifield

Date: 7-18-22

Company Name: Merrifield Recycled Oil

Name (Print): Jim Merrifield

Title: Owner

FOR WASTE MANAGEMENT USE ONLY

Submitted By: _____ Date: _____ Time: _____
(W.M. Initials)

WM Approval: _____ Date: _____

Agency Approval Required: ☐ Yes ☐ No

☐ Profile Extension

☐ Analytical Extension

Original Expiration Date _____

Analytical Due Date _____

Requested Extension _____

Requested Extension _____

New Expiration Date _____

New Analytical Due Date _____

Conditions/Precautions: _____

APPENDIX B

June 14, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield RCRA/M22-350 6/2/22
Pace Project No.: 20245592

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20245592001	SB-1	Solid	06/01/22 10:05	06/02/22 13:24
20245592002	SB-2	Solid	06/01/22 10:20	06/02/22 13:24
20245592003	SB-3	Solid	06/01/22 10:40	06/02/22 13:24
20245592004	SB-4	Solid	06/01/22 10:58	06/02/22 13:24
20245592005	SB-5	Solid	06/01/22 11:15	06/02/22 13:24
20245592006	WS-1	Wipe	06/01/22 10:32	06/02/22 13:24
20245592007	WS-2	Wipe	06/01/22 10:39	06/02/22 13:24
20245592008	WS-3	Wipe	06/01/22 10:44	06/02/22 13:24
20245592009	WS-4	Wipe	06/01/22 10:48	06/02/22 13:24
20245592010	WS-5	Wipe	06/01/22 10:52	06/02/22 13:24
20245592011	WS-6	Wipe	06/01/22 10:58	06/02/22 13:24
20245592012	WS-7	Wipe	06/01/22 11:03	06/02/22 13:24
20245592013	WS-8	Wipe	06/01/22 11:10	06/02/22 13:24
20245592014	WS-9	Wipe	06/01/22 11:15	06/02/22 13:24
20245592015	WS-10	Wipe	06/01/22 11:20	06/02/22 13:24
20245592016	WS-11	Wipe	06/01/22 11:24	06/02/22 13:24
20245592017	WS-12	Wipe	06/01/22 11:28	06/02/22 13:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20245592001	SB-1	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592002	SB-2	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592003	SB-3	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592004	SB-4	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592005	SB-5	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20245592006	WS-1	EPA 6010	AJS	7
20245592007	WS-2	EPA 6010	AJS	7
20245592008	WS-3	EPA 6010	AJS	7
20245592009	WS-4	EPA 6010	AJS	7
20245592010	WS-5	EPA 6010	AJS	7
20245592011	WS-6	EPA 6010	AJS	7
20245592012	WS-7	EPA 6010	AJS	7
20245592013	WS-8	EPA 6010	AJS	7
20245592014	WS-9	EPA 6010	AJS	7
20245592015	WS-10	EPA 6010	AJS	7
20245592016	WS-11	EPA 6010	AJS	7
20245592017	WS-12	EPA 6010	AJS	7

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 MET ICP, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

12 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 257440

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- WS-12 (Lab ID: 20245592017)
 - Arsenic
- WS-3 (Lab ID: 20245592008)
 - Cadmium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 6010

Description: 6010 Metals, Total

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1225453)
 - Silver
- MSD (Lab ID: 1225454)
 - Barium
 - Silver

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Method: EPA 7471

Description: 7471 Mercury

Client: Southern Earth Sciences, Inc.

Date: June 14, 2022

General Information:

5 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 257018

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20245304001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1224620)
 - Mercury
- MSD (Lab ID: 1224621)
 - Mercury

R1: RPD value was outside control limits.

- MSD (Lab ID: 1224621)
 - Mercury

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-1 **Lab ID: 20245592001** Collected: 06/01/22 10:05 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	8.9	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-38-2	
Barium	26.0	mg/kg	19.2	1	06/07/22 06:45	06/08/22 11:44	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7440-43-9	
Chromium	24.5	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-47-3	
Lead	16.1	mg/kg	0.48	1	06/07/22 06:45	06/08/22 11:44	7439-92-1	
Selenium	ND	mg/kg	1.9	1	06/07/22 06:45	06/08/22 11:44	7782-49-2	
Silver	ND	mg/kg	0.96	1	06/07/22 06:45	06/08/22 11:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	0.022	mg/kg	0.019	1	06/06/22 07:10	06/07/22 11:43	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.4	%	0.50	1		06/03/22 11:40		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-2 **Lab ID: 20245592002** Collected: 06/01/22 10:20 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-38-2	
Barium	ND	mg/kg	22.6	1	06/07/22 06:45	06/08/22 11:48	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7440-43-9	
Chromium	4.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-47-3	
Lead	4.6	mg/kg	0.57	1	06/07/22 06:45	06/08/22 11:48	7439-92-1	
Selenium	ND	mg/kg	2.3	1	06/07/22 06:45	06/08/22 11:48	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:48	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:45	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	13.3	%	0.50	1		06/03/22 11:41		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-3 **Lab ID: 20245592003** Collected: 06/01/22 10:40 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-38-2	
Barium	ND	mg/kg	19.8	1	06/07/22 06:45	06/08/22 11:52	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7440-43-9	
Chromium	4.7	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-47-3	
Lead	8.4	mg/kg	0.50	1	06/07/22 06:45	06/08/22 11:52	7439-92-1	
Selenium	ND	mg/kg	2.0	1	06/07/22 06:45	06/08/22 11:52	7782-49-2	
Silver	ND	mg/kg	0.99	1	06/07/22 06:45	06/08/22 11:52	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.016	1	06/06/22 07:10	06/07/22 11:47	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	8.3	%	0.50	1		06/03/22 11:42		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-4 **Lab ID: 20245592004** Collected: 06/01/22 10:58 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-38-2	
Barium	ND	mg/kg	22.1	1	06/07/22 06:45	06/08/22 11:57	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7440-43-9	
Chromium	5.0	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-47-3	
Lead	85.1	mg/kg	0.55	1	06/07/22 06:45	06/08/22 11:57	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 11:57	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 11:57	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.021	1	06/06/22 07:10	06/07/22 11:49	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	19.2	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: SB-5 **Lab ID: 20245592005** Collected: 06/01/22 11:15 Received: 06/02/22 13:24 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-38-2	
Barium	ND	mg/kg	22.3	1	06/07/22 06:45	06/08/22 12:01	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7440-43-9	
Chromium	10.8	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-47-3	
Lead	2.0	mg/kg	0.56	1	06/07/22 06:45	06/08/22 12:01	7439-92-1	
Selenium	ND	mg/kg	2.2	1	06/07/22 06:45	06/08/22 12:01	7782-49-2	
Silver	ND	mg/kg	1.1	1	06/07/22 06:45	06/08/22 12:01	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.022	1	06/06/22 07:10	06/07/22 11:52	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	28.7	%	0.50	1		06/03/22 11:43		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-1		Lab ID: 20245592006		Collected: 06/01/22 10:32		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	5.3	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-38-2		
Barium	2460	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:18	7440-39-3		
Cadmium	0.39	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7440-43-9		
Chromium	11.2	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-47-3		
Lead	28.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:18	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:18	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:18	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-2		Lab ID: 20245592007		Collected: 06/01/22 10:39		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	1.2	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-38-2	
		Barium	95.1	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:39	7440-39-3	
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7440-43-9	
		Chromium	1.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-47-3	
		Lead	2.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:39	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:39	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:39	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-3		Lab ID: 20245592008		Collected: 06/01/22 10:44		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	37.3	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-38-2	D3	
Barium	2150	Total ug	20.0	2	06/08/22 06:35	06/14/22 10:22	7440-39-3		
Cadmium	ND	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7440-43-9		
Chromium	13.5	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-47-3		
Lead	66.7	Total ug	0.50	2	06/08/22 06:35	06/14/22 10:22	7439-92-1		
Selenium	ND	Total ug	3.5	2	06/08/22 06:35	06/14/22 10:22	7782-49-2		
Silver	ND	Total ug	1.0	2	06/08/22 06:35	06/14/22 10:22	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-4		Lab ID: 20245592009		Collected: 06/01/22 10:48		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	4.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-38-2
		Barium	106	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:47	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7440-43-9
		Chromium	3.5	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-47-3
		Lead	7.2	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:47	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:47	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:47	7440-22-4

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-5		Lab ID: 20245592010		Collected: 06/01/22 10:52		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	1.9	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-38-2
		Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:51	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7440-43-9
		Chromium	3.0	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-47-3
		Lead	1.3	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:51	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:51	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:51	7440-22-4

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-6		Lab ID: 20245592011		Collected: 06/01/22 10:58		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
Arsenic	0.54	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:55	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7440-43-9		
Chromium	0.59	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-47-3		
Lead	11.8	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:55	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:55	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:55	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-7		Lab ID: 20245592012		Collected: 06/01/22 11:03		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	0.91	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-38-2		
Barium	ND	Total ug	10.0	1	06/08/22 06:35	06/13/22 12:59	7440-39-3		
Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7440-43-9		
Chromium	6.6	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-47-3		
Lead	4.9	Total ug	0.25	1	06/08/22 06:35	06/13/22 12:59	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 12:59	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 12:59	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-8		Lab ID: 20245592013		Collected: 06/01/22 11:10		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	10.6	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-38-2	
		Barium	136	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:27	7440-39-3	
		Cadmium	0.80	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7440-43-9	
		Chromium	21.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-47-3	
		Lead	39.5	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:27	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:27	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:27	7440-22-4	

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-9		Lab ID: 20245592014		Collected: 06/01/22 11:15		Received: 06/02/22 13:24		Matrix: Wipe		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050								
		Pace Analytical Services - New Orleans								
		Arsenic	8.8	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-38-2	
		Barium	534	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:31	7440-39-3	
		Cadmium	0.31	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7440-43-9	
		Chromium	11.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-47-3	
		Lead	87.6	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:31	7439-92-1	
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:31	7782-49-2	
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:31	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-10		Lab ID: 20245592015		Collected: 06/01/22 11:20		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	5.1	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-38-2		
Barium	327	Total ug	10.0	1	06/08/22 06:35	06/14/22 10:35	7440-39-3		
Cadmium	0.40	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7440-43-9		
Chromium	36.9	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-47-3		
Lead	138	Total ug	0.25	1	06/08/22 06:35	06/14/22 10:35	7439-92-1		
Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/14/22 10:35	7782-49-2		
Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/14/22 10:35	7440-22-4		

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-11		Lab ID: 20245592016		Collected: 06/01/22 11:24		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
		Pace Analytical Services - New Orleans							
		Arsenic	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-38-2
		Barium	17.5	Total ug	10.0	1	06/08/22 06:35	06/13/22 13:23	7440-39-3
		Cadmium	ND	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7440-43-9
		Chromium	2.8	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-47-3
		Lead	11.1	Total ug	0.25	1	06/08/22 06:35	06/13/22 13:23	7439-92-1
		Selenium	ND	Total ug	1.8	1	06/08/22 06:35	06/13/22 13:23	7782-49-2
		Silver	ND	Total ug	0.50	1	06/08/22 06:35	06/13/22 13:23	7440-22-4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Sample: WS-12		Lab ID: 20245592017		Collected: 06/01/22 11:28		Received: 06/02/22 13:24		Matrix: Wipe	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP, Wipe		Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - New Orleans							
Arsenic	10.3	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-38-2	D3	
Barium	261	Total ug	100	10	06/08/22 06:35	06/13/22 13:27	7440-39-3		
Cadmium	8.1	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7440-43-9		
Chromium	49.1	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-47-3		
Lead	205	Total ug	2.5	10	06/08/22 06:35	06/13/22 13:27	7439-92-1		
Selenium	ND	Total ug	17.5	10	06/08/22 06:35	06/13/22 13:27	7782-49-2		
Silver	ND	Total ug	5.0	10	06/08/22 06:35	06/13/22 13:27	7440-22-4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257018

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1224618

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	06/07/22 11:10	

LABORATORY CONTROL SAMPLE: 1224619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1224620 1224621

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.4	0.077	0.086	0.22	0.76	-1480	-704	75-125	110	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257440	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET Wipes
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017		

METHOD BLANK: 1226474

Matrix: Wipe

Associated Lab Samples: 20245592006, 20245592007, 20245592008, 20245592009, 20245592010, 20245592011, 20245592012, 20245592013, 20245592014, 20245592015, 20245592016, 20245592017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	Total ug	ND	0.50	06/13/22 12:19	
Barium	Total ug	ND	10.0	06/13/22 12:19	
Cadmium	Total ug	ND	0.25	06/13/22 12:19	
Chromium	Total ug	ND	0.50	06/13/22 12:19	
Lead	Total ug	ND	0.25	06/13/22 12:19	
Selenium	Total ug	ND	1.8	06/13/22 12:19	
Silver	Total ug	ND	0.50	06/13/22 12:19	

LABORATORY CONTROL SAMPLE: 1226475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	Total ug	50	49.6	99	85-115	
Barium	Total ug	50	50.2	100	85-115	
Cadmium	Total ug	50	48.9	98	85-115	
Chromium	Total ug	50	51.0	102	85-115	
Lead	Total ug	50	49.5	99	85-115	
Selenium	Total ug	50	48.0	96	85-115	
Silver	Total ug	25	24.6	98	85-115	

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch:	257241	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

METHOD BLANK: 1225451

Matrix: Solid

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.86	06/08/22 10:38	
Barium	mg/kg	ND	17.2	06/08/22 10:38	
Cadmium	mg/kg	ND	0.43	06/08/22 10:38	
Chromium	mg/kg	ND	0.86	06/08/22 10:38	
Lead	mg/kg	ND	0.43	06/08/22 10:38	
Selenium	mg/kg	ND	1.7	06/08/22 10:38	
Silver	mg/kg	ND	0.86	06/08/22 10:38	

LABORATORY CONTROL SAMPLE: 1225452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	99.6	100	84-115	
Barium	mg/kg	100	104	104	85-115	
Cadmium	mg/kg	100	101	101	85-115	
Chromium	mg/kg	100	105	105	85-115	
Lead	mg/kg	100	102	102	85-115	
Selenium	mg/kg	100	96.1	96	77-115	
Silver	mg/kg	50	49.1	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225453 1225454

Parameter	Units	20245304001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	10.1	84.7	90.9	89.8	96.1	94	95	80-120	7	20	
Barium	mg/kg	880	84.7	90.9	961	1060	96	194	80-120	9	20	M1
Cadmium	mg/kg	ND	84.7	90.9	84.2	91.2	98	99	80-120	8	20	
Chromium	mg/kg	38.4	84.7	90.9	130	137	108	108	80-120	5	20	
Lead	mg/kg	45.1	84.7	90.9	137	141	108	105	80-120	3	20	
Selenium	mg/kg	ND	84.7	90.9	81.5	91.5	95	100	80-120	12	20	
Silver	mg/kg	ND	42.4	45.5	27.9	28.9	66	64	80-120	3	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

QC Batch: 257021

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20245592001, 20245592002, 20245592003, 20245592004, 20245592005

SAMPLE DUPLICATE: 1224626

Parameter	Units	50317525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.7	41.3	4	20	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield RCRA/M22-350 6/2/22

Pace Project No.: 20245592

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20245592006	WS-1	EPA 3050	257440	EPA 6010	257467
20245592007	WS-2	EPA 3050	257440	EPA 6010	257467
20245592008	WS-3	EPA 3050	257440	EPA 6010	257467
20245592009	WS-4	EPA 3050	257440	EPA 6010	257467
20245592010	WS-5	EPA 3050	257440	EPA 6010	257467
20245592011	WS-6	EPA 3050	257440	EPA 6010	257467
20245592012	WS-7	EPA 3050	257440	EPA 6010	257467
20245592013	WS-8	EPA 3050	257440	EPA 6010	257467
20245592014	WS-9	EPA 3050	257440	EPA 6010	257467
20245592015	WS-10	EPA 3050	257440	EPA 6010	257467
20245592016	WS-11	EPA 3050	257440	EPA 6010	257467
20245592017	WS-12	EPA 3050	257440	EPA 6010	257467
20245592001	SB-1	EPA 3050	257241	EPA 6010	257347
20245592002	SB-2	EPA 3050	257241	EPA 6010	257347
20245592003	SB-3	EPA 3050	257241	EPA 6010	257347
20245592004	SB-4	EPA 3050	257241	EPA 6010	257347
20245592005	SB-5	EPA 3050	257241	EPA 6010	257347
20245592001	SB-1	EPA 7471	257018	EPA 7471	257217
20245592002	SB-2	EPA 7471	257018	EPA 7471	257217
20245592003	SB-3	EPA 7471	257018	EPA 7471	257217
20245592004	SB-4	EPA 7471	257018	EPA 7471	257217
20245592005	SB-5	EPA 7471	257018	EPA 7471	257217
20245592001	SB-1	Moisture	257021		
20245592002	SB-2	Moisture	257021		
20245592003	SB-3	Moisture	257021		
20245592004	SB-4	Moisture	257021		
20245592005	SB-5	Moisture	257021		

REPORT OF LABORATORY ANALYSIS

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PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: SESI		Report To: Enc Guarino		Attention:	
Address: 5460 Rangeline Road		Copy To:		Company Name:	
Mobile, AL 36619				Address:	
Email To: eguarino@seearth.com		Purchase Order No.:		Pace Quote Reference:	
Phone: (251) 344-7711 Fax:		Project Name: Memphis RCRA Closure		Pace Project Manager:	
Requested Due Date/TAT: Standard TAT		Project Number: 422-350		Pace Profile #:	
				REGULATORY AGENCY	
				☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER	
				Site Location	
				STATE: FL	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						COMPOSITE START		COMPOSITE END GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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1	WS-9 (A-Z, 0-9 / -)			WP G	G	6/1/22	1115				1	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Wipe samples report in ug/ft ²	Horacio Martinez / SESI	6/2/22	1324	Kyle A. Wilton	6/2/22	1324	1.3	Y	N

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Horacio Martinez					
SIGNATURE of SAMPLER: Horacio Martinez	DATE Signed (MM/DD/YY): 6/2/22				



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

WO#: 20245592

PM: SLW

Due Date: 06/14/22

CLIENT: MO-SES

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/2/2022 KALJ

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☐ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

June 22, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: Merrifield M22-350 6/14/22
Pace Project No.: 20246759

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20246759001	WS-1	Wipe	06/09/22 07:50	06/14/22 14:17
20246759002	WS-2	Wipe	06/09/22 07:55	06/14/22 14:17
20246759003	WS-3	Wipe	06/09/22 08:00	06/14/22 14:17
20246759004	WS-4	Wipe	06/09/22 08:05	06/14/22 14:17
20246759005	WS-5	Wipe	06/09/22 08:10	06/14/22 14:17
20246759006	WS-6	Wipe	06/09/22 08:20	06/14/22 14:17
20246759007	WS-7	Wipe	06/09/22 08:15	06/14/22 14:17
20246759008	WS-8	Wipe	06/09/22 08:25	06/14/22 14:17
20246759009	WS-9	Wipe	06/09/22 08:30	06/14/22 14:17
20246759010	WS-10	Wipe	06/09/22 08:35	06/14/22 14:17
20246759011	WS-11	Wipe	06/09/22 08:40	06/14/22 14:17
20246759012	WS-12	Wipe	06/09/22 08:45	06/14/22 14:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20246759001	WS-1	EPA 7471	AJS	1
20246759002	WS-2	EPA 7471	AJS	1
20246759003	WS-3	EPA 7471	AJS	1
20246759004	WS-4	EPA 7471	AJS	1
20246759005	WS-5	EPA 7471	AJS	1
20246759006	WS-6	EPA 7471	AJS	1
20246759007	WS-7	EPA 7471	AJS	1
20246759008	WS-8	EPA 7471	AJS	1
20246759009	WS-9	EPA 7471	AJS	1
20246759010	WS-10	EPA 7471	AJS	1
20246759011	WS-11	EPA 7471	AJS	1
20246759012	WS-12	EPA 7471	AJS	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Method: EPA 7471

Description: 7471 Mercury, Wipe

Client: Southern Earth Sciences, Inc.

Date: June 22, 2022

General Information:

12 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-1		Lab ID: 20246759001	Collected: 06/09/22 07:50	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:19	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-2		Lab ID: 20246759002		Collected: 06/09/22 07:55		Received: 06/14/22 14:17		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans							
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:21	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-3		Lab ID: 20246759003		Collected: 06/09/22 08:00		Received: 06/14/22 14:17		Matrix: Wipe	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans							
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:24	7439-97-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-4		Lab ID: 20246759004	Collected: 06/09/22 08:05	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.014	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:26	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-5		Lab ID: 20246759005	Collected: 06/09/22 08:10	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	ND	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:28	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-6		Lab ID: 20246759006	Collected: 06/09/22 08:20	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:31	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-7		Lab ID: 20246759007	Collected: 06/09/22 08:15	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.016	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:33	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-8		Lab ID: 20246759008	Collected: 06/09/22 08:25	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.011	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:35	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-9		Lab ID: 20246759009	Collected: 06/09/22 08:30	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.012	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:42	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-10		Lab ID: 20246759010	Collected: 06/09/22 08:35	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.020	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:45	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-11		Lab ID: 20246759011	Collected: 06/09/22 08:40	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.0096	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:47	7439-97-6	

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ANALYTICAL RESULTS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Sample: WS-12		Lab ID: 20246759012	Collected: 06/09/22 08:45	Received: 06/14/22 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury, Wipe		Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - New Orleans						
Mercury	0.022	Total ug	0.0060	1	06/22/22 07:10	06/22/22 11:49	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

QC Batch:	258715	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury Wipe
		Laboratory:	Pace Analytical Services - New Orleans
Associated Lab Samples:	20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012		

METHOD BLANK: 1233385

Matrix: Wipe

Associated Lab Samples: 20246759001, 20246759002, 20246759003, 20246759004, 20246759005, 20246759006, 20246759007, 20246759008, 20246759009, 20246759010, 20246759011, 20246759012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	Total ug	ND	0.0060	06/22/22 11:15	

LABORATORY CONTROL SAMPLE: 1233386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	Total ug	0.03	0.031	103	80-120	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merrifield M22-350 6/14/22

Pace Project No.: 20246759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20246759001	WS-1	EPA 7471	258715	EPA 7471	258721
20246759002	WS-2	EPA 7471	258715	EPA 7471	258721
20246759003	WS-3	EPA 7471	258715	EPA 7471	258721
20246759004	WS-4	EPA 7471	258715	EPA 7471	258721
20246759005	WS-5	EPA 7471	258715	EPA 7471	258721
20246759006	WS-6	EPA 7471	258715	EPA 7471	258721
20246759007	WS-7	EPA 7471	258715	EPA 7471	258721
20246759008	WS-8	EPA 7471	258715	EPA 7471	258721
20246759009	WS-9	EPA 7471	258715	EPA 7471	258721
20246759010	WS-10	EPA 7471	258715	EPA 7471	258721
20246759011	WS-11	EPA 7471	258715	EPA 7471	258721
20246759012	WS-12	EPA 7471	258715	EPA 7471	258721

REPORT OF LABORATORY ANALYSIS

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Company Name/Address: SESI 5460 Rangeline Rd Mobile AL 36619				Billing Information: SESI				Analysis / Container / Pres Chk	
Report to: E.C. Guarino				Email To: eguarino@seearth.com				Mercury	
Project Description: Merrifield				City/State Collected: GtHndale FL		Please Circle: PT MT CT ET			
Phone: 251 344-7711		Client Project # M22-350		Lab Project #					
Collected by (print): TBarny		Site/Facility ID #		P.O. #					
Collected by (signature): <i>Sam Barny</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # Std					
Immediately Packed on Ice N ☐ Y ☐		Date Results Needed Std		No. of Cntrs					
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time				
W/S 1		wipe	1sf	6-9-22	750	1	X		
W-S-2				6-9-22	755	1	X		
WS-3				6-9-22	800	1	X		
WS-4				6-9-22	805	1	X		
WS-5				6-9-22	810	1	X		
WS 6				6-9-22	820	1	X		
WS 7				6-9-22	815	1	X		
WS 8				6-9-22	825	1	X		
WS 9				6-9-22	830	1	X		
WS 10				6-9-22	835	1	X		

*** Matrix:**
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other wipe

Remarks:
 Report wipe in ug/ft²

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)
Sam Barny

Date: 6-9-22 **Time:** 3:00

Received by: (Signature)
Fed Ex

Date: 7/10/22 **Time:** 1630

Relinquished by: (Signature)
Fed Ex

Date: 6/13/22 **Time:** 1400

Received by: (Signature)
[Signature]

Date: 6/13/22 **Time:** 1400

Relinquished by: (Signature)
[Signature]

Date: 6/14/22 **Time:**

Received for lab by: (Signature)
Michelle [Signature]

Date: 6/14/22 **Time:** 1417

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Temp: °C **Bottles Received:**

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Hold: **Condition:** NCF / OK

W0#: 20246759



20246759

12065 Lebanon Rd Mount Juliet, TN 37122

Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

Company Name/Address:

Billing Information:

Analysis / Container

WO#: 20246759

PM: SLW

Due Date: 06/24/22

CLIENT: MO-SES

Pres
Chk

Report to:

Email To:

Project Description:

City/State

Collected:

Please Circle:

PT MT CT ET

Phone:

Client Project #

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately

Packed on Ice N Y

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cnts

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

WS 11

Wipe

1sf

6-9-22

840

1

X

WS 12

Wipe

1sf

6-9-22

845

1

X

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

pH Temp

Flow Other

 Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
 COC Signed/Accurate: ☐ Y ☐ N
 Bottles arrive intact: ☐ Y ☐ N
 Correct bottles used: ☐ Y ☐ N
 Sufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

 Condition:
 NCF / OK



Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL
36609

Project #:

20246759

Courier: ☐ Pace ☒ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☐ Yes ☐ No

Thermometer Used: ☒ Therm Fisher IR 001
☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/14/2022 KALW

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐ Yes ☒ No ☐ N/A	1	
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2	
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3	
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4	
Sampler Name on COC:	☒ Yes ☐ No ☐ N/A	5	
Short Hold Time Analyses (<72 hr):	☐ Yes ☒ No ☐ N/A	6	
Rush Turn Around Requested:	☐ Yes ☒ No ☐ N/A	7	
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	8	
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	9	
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	10	
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	11	
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☒ Yes ☐ No ☐ N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☐ Yes ☐ No ☒ N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	15	If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present:	☐ Yes ☒ No	17	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

July 27, 2022

Eric Guarino
Southern Earth Sciences, Inc.
5460 Rangeline Road
Mobile, AL 36619

RE: Project: M22-350 07/20/22
Pace Project No.: 20250636

Dear Eric Guarino:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2022. The results relate only to the samples included in this report.

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

- Pace Analytical Services - New Orleans

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

Sincerely,



Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Eric Guarino
Stacey Guarino, Southern Earth Sciences
Marty Reaves, Southern Earth Sciences, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20250636001	East	Solid	07/20/22 10:15	07/21/22 16:38
20250636002	South	Solid	07/20/22 10:20	07/21/22 16:38
20250636003	West	Solid	07/20/22 10:40	07/21/22 16:38
20250636004	North	Solid	07/20/22 10:35	07/21/22 16:38
20250636005	Mid	Solid	07/21/22 10:30	07/21/22 16:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20250636001	East	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636002	South	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636003	West	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636004	North	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1
20250636005	Mid	EPA 6010	AJS	7
		EPA 7471	AJS	1
		Moisture	GGG1	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Method: EPA 6010

Description: 6010 Metals, Total

Client: Southern Earth Sciences, Inc.

Date: July 27, 2022

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 261488

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20250746001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1248565)
 - Arsenic
- MSD (Lab ID: 1248566)
 - Arsenic

R1: RPD value was outside control limits.

- MSD (Lab ID: 1248566)
 - Arsenic

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Method: EPA 7471

Description: 7471 Mercury

Client: Southern Earth Sciences, Inc.

Date: July 27, 2022

General Information:

5 samples were analyzed for EPA 7471 by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: East **Lab ID: 20250636001** Collected: 07/20/22 10:15 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.0	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-38-2	
Barium	ND	mg/kg	17.7	1	07/25/22 06:50	07/26/22 10:40	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:40	7440-43-9	
Chromium	5.2	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-47-3	
Lead	26.0	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:40	7439-92-1	
Selenium	ND	mg/kg	1.8	1	07/25/22 06:50	07/26/22 10:40	7782-49-2	
Silver	ND	mg/kg	0.88	1	07/25/22 06:50	07/26/22 10:40	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.017	1	07/25/22 07:17	07/26/22 11:51	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	5.7	%	0.50	1		07/25/22 12:43		

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: South **Lab ID: 20250636002** Collected: 07/20/22 10:20 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	ND	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-38-2	
Barium	ND	mg/kg	17.7	1	07/25/22 06:50	07/26/22 10:44	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:44	7440-43-9	
Chromium	2.7	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-47-3	
Lead	3.3	mg/kg	0.44	1	07/25/22 06:50	07/26/22 10:44	7439-92-1	
Selenium	ND	mg/kg	1.8	1	07/25/22 06:50	07/26/22 10:44	7782-49-2	
Silver	ND	mg/kg	0.89	1	07/25/22 06:50	07/26/22 10:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.017	1	07/25/22 07:17	07/26/22 11:53	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	9.1	%	0.50	1		07/26/22 07:18		

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: West **Lab ID: 20250636003** Collected: 07/20/22 10:40 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.8	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-38-2	
Barium	26.9	mg/kg	23.2	1	07/25/22 06:50	07/26/22 10:48	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	07/25/22 06:50	07/26/22 10:48	7440-43-9	
Chromium	13.9	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-47-3	
Lead	32.4	mg/kg	0.58	1	07/25/22 06:50	07/26/22 10:48	7439-92-1	
Selenium	ND	mg/kg	2.3	1	07/25/22 06:50	07/26/22 10:48	7782-49-2	
Silver	ND	mg/kg	1.2	1	07/25/22 06:50	07/26/22 10:48	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.019	1	07/25/22 07:17	07/26/22 11:55	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	15.4	%	0.50	1		07/26/22 07:18		

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: North **Lab ID: 20250636004** Collected: 07/20/22 10:35 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.2	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-38-2	
Barium	32.9	mg/kg	16.9	1	07/25/22 06:50	07/26/22 10:52	7440-39-3	
Cadmium	0.62	mg/kg	0.42	1	07/25/22 06:50	07/26/22 10:52	7440-43-9	
Chromium	11.8	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-47-3	
Lead	13.4	mg/kg	0.42	1	07/25/22 06:50	07/26/22 10:52	7439-92-1	
Selenium	ND	mg/kg	1.7	1	07/25/22 06:50	07/26/22 10:52	7782-49-2	
Silver	ND	mg/kg	0.85	1	07/25/22 06:50	07/26/22 10:52	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	0.41	mg/kg	0.020	1	07/25/22 07:17	07/26/22 11:58	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	11.9	%	0.50	1		07/26/22 07:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M22-350 07/20/22

Pace Project No.: 20250636

Sample: Mid **Lab ID:** 20250636005 Collected: 07/21/22 10:30 Received: 07/21/22 16:38 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - New Orleans								
Arsenic	1.3	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-38-2	
Barium	29.2	mg/kg	15.7	1	07/25/22 06:50	07/26/22 10:55	7440-39-3	
Cadmium	ND	mg/kg	0.39	1	07/25/22 06:50	07/26/22 10:55	7440-43-9	
Chromium	13.8	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-47-3	
Lead	9.3	mg/kg	0.39	1	07/25/22 06:50	07/26/22 10:55	7439-92-1	
Selenium	ND	mg/kg	1.6	1	07/25/22 06:50	07/26/22 10:55	7782-49-2	
Silver	ND	mg/kg	0.79	1	07/25/22 06:50	07/26/22 10:55	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - New Orleans								
Mercury	ND	mg/kg	0.023	1	07/25/22 07:17	07/26/22 12:00	7439-97-6	
Percent Moisture								
Analytical Method: Moisture								
Pace Analytical Services - New Orleans								
Percent Moisture	16.4	%	0.50	1		07/26/22 07:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch:	261489	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

METHOD BLANK: 1248557 Matrix: Solid

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	07/26/22 11:32	

LABORATORY CONTROL SAMPLE: 1248558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248559 1248560

Parameter	Units	20250674001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.088	0.083	0.099	0.091	105	101	75-125	8	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch:	261488	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

METHOD BLANK: 1248553

Matrix: Solid

Associated Lab Samples: 20250636001, 20250636002, 20250636003, 20250636004, 20250636005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	07/26/22 09:52	
Barium	mg/kg	ND	20.0	07/26/22 09:52	
Cadmium	mg/kg	ND	0.50	07/26/22 09:52	
Chromium	mg/kg	ND	1.0	07/26/22 09:52	
Lead	mg/kg	ND	0.50	07/26/22 09:52	
Selenium	mg/kg	ND	2.0	07/26/22 09:52	
Silver	mg/kg	ND	1.0	07/26/22 09:52	

LABORATORY CONTROL SAMPLE: 1248554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	96.2	96	84-115	
Barium	mg/kg	100	100	100	85-115	
Cadmium	mg/kg	100	95.2	95	85-115	
Chromium	mg/kg	100	100	100	85-115	
Lead	mg/kg	100	97.2	97	85-115	
Selenium	mg/kg	100	91.3	91	77-115	
Silver	mg/kg	50	48.4	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248565 1248566

Parameter	Units	20250746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5750	83.3	82	5300	4030	-540	-2090	80-120	27	20	M1, R1
Barium	mg/kg	ND	83.3	82	124	120	90	86	80-120	4	20	
Cadmium	mg/kg	21.0	83.3	82	98.6	98.2	93	94	80-120	0	20	
Chromium	mg/kg	76.5	83.3	82	153	158	92	99	80-120	3	20	
Lead	mg/kg	ND	83.3	82	77.6	78.9	93	96	80-120	2	20	
Selenium	mg/kg	ND	83.3	82	82.3	82.3	95	96	80-120	0	20	
Silver	mg/kg	ND	41.7	41	39.9	39.8	95	96	80-120	0	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch: 261517

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636001

SAMPLE DUPLICATE: 1248637

Parameter	Units	20250297001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	51.1	50.6	1	20	

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QUALITY CONTROL DATA

Project: M22-350 07/20/22

Pace Project No.: 20250636

QC Batch: 261598

Analysis Method: Moisture

QC Batch Method: Moisture

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20250636002, 20250636003, 20250636004, 20250636005

SAMPLE DUPLICATE: 1249024

Parameter	Units	20250635011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.9	17.6	4	20	

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QUALIFIERS

Project: M22-350 07/20/22

Pace Project No.: 20250636

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: M22-350 07/20/22

Pace Project No.: 20250636

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20250636001	East	EPA 3050	261488	EPA 6010	261515
20250636002	South	EPA 3050	261488	EPA 6010	261515
20250636003	West	EPA 3050	261488	EPA 6010	261515
20250636004	North	EPA 3050	261488	EPA 6010	261515
20250636005	Mid	EPA 3050	261488	EPA 6010	261515
20250636001	East	EPA 7471	261489	EPA 7471	261507
20250636002	South	EPA 7471	261489	EPA 7471	261507
20250636003	West	EPA 7471	261489	EPA 7471	261507
20250636004	North	EPA 7471	261489	EPA 7471	261507
20250636005	Mid	EPA 7471	261489	EPA 7471	261507
20250636001	East	Moisture	261517		
20250636002	South	Moisture	261598		
20250636003	West	Moisture	261598		
20250636004	North	Moisture	261598		
20250636005	Mid	Moisture	261598		

REPORT OF LABORATORY ANALYSIS

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APPENDIX C

SAMPLE AND LITHOLOGY LOG

BORING NO.: SB-1

DATE DRILLED: 06/01/22

Page 1 of 1

PROJECT: MERRIFIELD RECYCLED OIL

METHOD: HAND AUGER

PROJECT LOCATION: COTTONDALE, FL

GROUND ELEVATION:

LOCATION: SEE SITE MAP

DRILLER: SESI

PROJECT NO.: M22-350

WATER LEVEL:

GEOL / ENGR: CHUCK RAYBORN

Elevation / Depth	Soil Symbols Sampler Symbols and Field Test Data	USCS	Description	PID ppm
0.0		GW	WHITE LIMESTONE GRAVEL (NO PETROLEUM/OIL PRESENT)	
0.5		SP	BROWN MEDIUM TO FINE GRAINED SAND (NO PETROLEUM/OIL PRESENT)	
1.0				
1.5				
2.0				
2.5				
3.0		SC	BROWN CLAYEY SAND (NO PETROLEUM/OIL PRESENT)	
3.5		CL	ORANGE/BROWN CLAY (NO PETROLEUM/OIL PRESENT)	
4.0				

Remarks: COMPOSITE SOIL SAMPLE (0'-1')



SAMPLE AND LITHOLOGY LOG

BORING NO.: SB-2

DATE DRILLED: 06/01/22

Page 1 of 1

PROJECT: MERRIFIELD RECYCLED OIL

METHOD: HAND AUGER

PROJECT LOCATION: COTTONDALE, FL

GROUND ELEVATION:

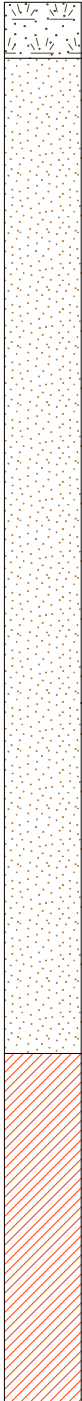
LOCATION: SEE SITE MAP

DRILLER: SESI

PROJECT NO.: M22-350

WATER LEVEL:

GEOL / ENGR: CHUCK RAYBORN

Elevation / Depth	Soil Symbols Sampler Symbols and Field Test Data	USCS	Description	PID ppm
0.0		PT	BROWN TOPSOIL (NO PETROLEUM/OIL PRESENT)	
0.5		SW	BROWN MEDIUM TO FINE GRAINED SAND (NO PETROLEUM/OIL PRESENT)	
1.0				
1.5				
2.0				
2.5				
3.0		CL	ORANGE/BROWN CLAY (NO PETROLEUM/OIL PRESENT)	
3.5				
4.0				

Remarks: COMPOSITE SOIL SAMPLE (0'-1')



SAMPLE AND LITHOLOGY LOG

BORING NO.: SB-3

DATE DRILLED: 06/01/22

Page 1 of 1

PROJECT: MERRIFIELD RECYCLED OIL

METHOD: HAND AUGER

PROJECT LOCATION: COTTONDALE, FL

GROUND ELEVATION:

LOCATION: SEE SITE MAP

DRILLER: SESI

PROJECT NO.: M22-350

WATER LEVEL:

GEOL / ENGR: CHUCK RAYBORN

Elevation / Depth	Soil Symbols Sampler Symbols and Field Test Data	USCS	Description	PID ppm
0.0		PT	BROWN TOPSOIL (NO PETROLEUM/OIL PRESENT)	
0.5		SW	BROWN MEDIUM TO FINE GRAINED SAND (NO PETROLEUM/OIL PRESENT)	
3.0		CL	ORANGE/BROWN CLAY (NO PETROLEUM/OIL PRESENT)	
4.0				

Remarks: COMPOSITE SOIL SAMPLE (0'-1')



SAMPLE AND LITHOLOGY LOG

BORING NO.: SB-4

DATE DRILLED: 06/01/22

Page 1 of 1

PROJECT: MERRIFIELD RECYCLED OIL

METHOD: HAND AUGER

PROJECT LOCATION: COTTONDALE, FL

GROUND ELEVATION:

LOCATION: SEE SITE MAP

DRILLER: SESI

PROJECT NO.: M22-350

WATER LEVEL:

GEOL / ENGR: CHUCK RAYBORN

Elevation / Depth	Soil Symbols Sampler Symbols and Field Test Data	USCS	Description	PID ppm
0.0		PT	BROWN TOPSOIL (NO PETROLEUM/OIL PRESENT)	
0.5		SW	BROWN MEDIUM TO FINE GRAINED SAND (NO PETROLEUM/OIL PRESENT)	
3.0		CL	ORANGE/BROWN CLAY (NO PETROLEUM/OIL PRESENT)	
4.0				

Remarks: COMPOSITE SOIL SAMPLE (0'-1')



SAMPLE AND LITHOLOGY LOG

BORING NO.: SB-5

DATE DRILLED: 06/01/22

Page 1 of 1

PROJECT: MERRIFIELD RECYCLED OIL

METHOD: HAND AUGER

PROJECT LOCATION: COTTONDALE, FL

GROUND ELEVATION:

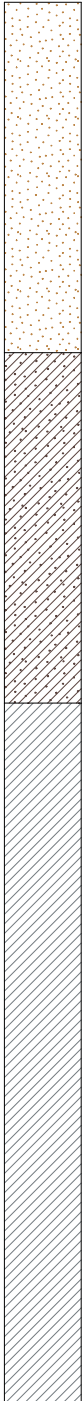
LOCATION: SEE SITE MAP

DRILLER: SESI

PROJECT NO.: M22-350

WATER LEVEL:

GEOL / ENGR: CHUCK RAYBORN

Elevation / Depth	Soil Symbols Sampler Symbols and Field Test Data	USCS	Description	PID ppm
0.0		SW	BROWN MEDIUM TO FINE GRAINED SAND (NO PETROLEUM/OIL PRESENT)	
0.5				
1.0		SC	ORANGE/GRAY SANDY CLAY (NO PETROLEUM/OIL PRESENT)	
1.5				
2.0		CL	GRAY CLAY (NO PETROLEUM/OIL PRESENT)	
2.5				
3.0				
3.5				
4.0				

Remarks: COMPOSITE SOIL SAMPLE (0'-1')



APPENDIX D

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/07/22
Check No: 149246

TICKET#	SHP	DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT	EXT	TOTAL AMT
TZCSGP	05/07/22	#1 & #2	HMS Prepared	13760	9160	4600	TANF250	12.1300	CW	0.00	557.98
TZCSGP	05/07/22		FACILITY FEE - FER	9160	9160	0	TANF250	-6.16	*	0.00	-6.16

VENDOR CP084P TOTALS (Pounds):

4600

TOTAL DUE: \$ 551.82

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/09/22
Check No: 149254

TICKET#	SHP	DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT	EXT	TOTAL AMT
TZCTNV	05/09/22	#1 & #2	HMS Unprepared	14180	9200	4980	TAN F-250	10.1300	CW	0.00	504.47
TZCTNV	05/09/22		FACILITY FEE - FER	9200	9200	0	TAN F-250	-6.67	*	0.00	-6.67

VENDOR CP084P TOTALS (Pounds):

4980

TOTAL DUE: \$ 497.80

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/09/22
Check No: 149259

TICKET#	SHP	DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT	EXT	TOTAL AMT
TZCWBM	05/09/22	#1 & #2	HMS Unprepared	15180	9260	5920	TAN F-250	10.1300	CW	0.00	599.70
TZCWBM	05/09/22		FACILITY FEE - FER	9260	9260	0	TAN F-250	-7.93	*	0.00	-7.93

VENDOR CP084P TOTALS (Pounds):

5920

TOTAL DUE: \$ 591.77

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/10/22
Check No: 149271

TICKET#	SHP	DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT	EXT	TOTAL AMT
TZCZKH	05/10/22	#1 & #2	HMS Unprepared	14500	8880	5620	TAN F-250	10.1300	CW	0.00	569.31
TZCZKH	05/10/22		FACILITY FEE - FER	8880	8880	0	TAN F-250	-7.53	*	0.00	-7.53

VENDOR CP084P TOTALS (Pounds):

5620

TOTAL DUE: \$ 561.78

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/10/22
Check No: 149277

TICKET#	SHP	DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT	EXT	TOTAL AMT
TZDBBW	05/10/22	#1 & #2	HMS Unprepared	31720	15000	16720	WHT FLTBED	10.1300	CW	0.00	1693.74
TZDBBW	05/10/22		FACILITY FEE - FER	15000	15000	0	WHT FLTBED	-22.39	*	0.00	-22.39

VENDOR CP084P TOTALS (Pounds):

16720

TOTAL DUE: \$ 1671.35

Metal

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/20/22
Check No: 149408

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZERFQ	05/20/22	#1 & #2 HMS Unprepared	13380	9960	3420	tan f-250	10.1300 CW	0.00	346.45
TZERFQ	05/20/22	FACILITY FEE - FER	9960	9960	0	tan f-250	-4.58 *	0.00	-4.58
VENDOR CP084P TOTALS (Pounds):					3420	TOTAL DUE: \$ 341.87			

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 05/24/22
Check No: 149447

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZFCNE	05/24/22	#1 & #2 HMS Unprepared	14980	9960	5020	TAN FORD	9.1300 CW	0.00	458.33
TZFCNE	05/24/22	FACILITY FEE - FER	9960	9960	0	TAN FORD	-6.72 *	0.00	-6.72
VENDOR CP084P TOTALS (Pounds):					5020	TOTAL DUE: \$ 451.61			

SCHNITZER SOUTHEAST, LLC. 2101 Columbia Highway Dothan, AL 36303 (334) 671-3680

JAMES EDWARD MERRIFIELD
Vendor # CP084P

Date: 06/21/22
Check No: 149761

TICKET#	SHP DATE	COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT	TOTAL AMT
TZJBIC	06/21/22	#1 & #2 HMS Unprepared	14120	9980	4140	TAN F-250	6.1300 CW	0.00	253.78
TZJBIC	06/21/22	FACILITY FEE - FER	9980	9980	0	TAN F-250	-5.54 *	0.00	-5.54
VENDOR CP084P TOTALS (Pounds):					4140	TOTAL DUE: \$ 248.24			



Non-Hazardous
WASTE MANIFEST - INVOICE

272 Powell Street - Camilla, Georgia 31730
GA, FL, AL EPA # GAR000054460

Nº 0048608

SHIPPED TO: OIL RECOVERY, INC.		RECEIVED FROM: JE Merrifield / Merrifield Oil	
ADDRESS: 272 POWELL STREET		ADDRESS: 3053 Barnes Ln	
CITY, STATE, ZIP: CAMILLA, GEORGIA 31730		CITY, STATE, ZIP: Cottondale, FL 32431	
DATE: 6-20-00	SOLD BY:	TERMS:	

Waste Water <u>4200</u>	Gross Gallons <u>4200</u>	CHLORINATED SOLVENTS	
Used Oil Filters _____	Less B S & W <u>-</u>	☐ DETECTED	☒ NON-DETECTED
Oil Type <u>PCW</u>	End Use Code <u>-</u>		
Source Code _____	Net Gallons <u>4200</u>	Rate <u>1.00</u> Per Gallon	x <u>4200</u> = <u>\$ 4200.00</u> Total Due

NOTES: Id - Trade for 6,200 gal Urtha Tanks

SIGNED: [Signature]



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-431		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 223 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge 412892 FL WM Profile #				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name Jim Merrifield		Signature "On behalf of" <i>[Signature]</i>		Month Day Year 11/19/93
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Leron Inc.		Signature <i>[Signature]</i>		Month Day Year 11/10/93
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed/Typed Name		Signature		Month Day Year



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431						A. Manifest Number WMNA 10720803	
4. Generator's Phone 32431						B. State Generator's ID	
5. Transporter 1 Company Name J E Merrifield				6. US EPA ID Number 8502092336		C. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address Spring Hill Landfill 4945 Hwy 223 Campbellton, IL 32426				10. US EPA ID Number		E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility's ID	
						H. Facility's Phone	
11. Description of Waste Materials				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. oily sludge WM Profile # 412892FL							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above						K. Disposal Location	
Landfill ☒ Solidification						Cell Level	
Bio Remediation						Grid	
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT:							
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.							
Printed/Typed Name X Jim Merrifield				Signature "On behalf of" X [Signature]		Month Day Year 10/3/08/22	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Thomas Cassidy				Signature [Signature]		Month Day Year 10/3/08/22	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed/Typed Name				Signature		Month Day Year	



NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address Merrifield Recycle Oil 3053 Barnes Lane Cottandale, IL 32431		A. Manifest Number WMNA 10720803		
4. Generator's Phone 312-324-4311		B. State Generator's ID		
5. Transporter 1 Company Name J E Merrifield		C. State Transporter's ID		
6. US EPA ID Number 8502092336		D. Transporter's Phone		
7. Transporter 2 Company Name		E. State Transporter's ID		
8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address Springhill Landfill 4945 Hwy 273 Campbellton, IL 32426		G. State Facility's ID		
10. US EPA ID Number		H. Facility's Phone		
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. oily sludge WM Profile # 412892FL				
b. WM Profile #				
c. WM Profile #				
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above Landfill ☒ Solidification ☐ Bio Remediation ☐		K. Disposal Location Cell _____ Level _____ Grid _____		
15. Special Handling Instructions and Additional Information Purchase Order # _____ EMERGENCY CONTACT: _____				
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.				
Printed/Typed Name X. Simon Meris		Signature "On behalf of" [Signature]		Month Day Year 11/23/02
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature [Signature]		Month Day Year 11/23/02
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name Signature Month Day Year				



INVOICE

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

03/01/22-03/15/22

03/16/2022

8562099-1719-9

How To Contact Us

Visit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due

04/15/2022

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due

\$1,664.48

*PAID 6406
\$1,269.77*

Previous Balance

394.71

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice Charges

1,269.77

=

Total Account Balance Due

1,664.48

DETAILS OF SERVICE

Details for Service Location:

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	03/08/22	871757	1.00	500.00
DISPOSAL CONTAMINATED TONS			8.45	422.50
Ticket Total				922.50
PRORATE MANUAL DEBIT	03/08/22		1.00	20.32
2JS: 03/01-03/07/22				0.00
FUEL/ENVIRONMENTAL CHARGE				289.32
REGULATORY COST RECOVERY CHRG				29.13
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,269.77

*31000 lbs
27.96 TONS*

Please detach and send the lower section with payment (no cash accepted)



INVOICE

Page 1 of 2

Customer ID:

Customer Name:

Service Period:

Invoice Date:

Invoice Number:

25-43670-53005

MERRIFIELD RECYCLED OIL (SW)

12/16/21-12/31/21

01/03/2022

8552447-1719-2

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**02/02/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,673.66**

*PAID 6376
1-24-22*

Previous Balance

1,561.42

+

Payments

(1,561.42)

+

Adjustments

0.00

+

Current Invoice Charges

1,673.66

=

Total Account Balance Due**1,673.66****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
INACTIVITY CHARGE	12/03/21	M39720	1.00	250.00
20S:11/04-12/03/21				0.00
Ticket Total				250.00
20 YD SPECIAL WASTE	12/30/21	859202	1.00	500.00
LINER			1.00	65.00
DISPOSAL CONTAMINATED TONS			9.42	471.00
Ticket Total				1,036.00
20YD SP WASTE CONTNR SVC CHG After 0 Months	12/16/21		1.00	90.00
FUEL/ENVIRONMENTAL CHARGE				256.37

Please detach and send the invoice with payment. (see back contract)



INVOICE

Customer ID:**25-43670-53005**

Customer Name:

MERRIFIELD RECYCLED OIL (SW)

Service Period:

11/01/21-11/15/21

Invoice Date:

11/16/2021

Invoice Number:

8531729-1719-9

How To Contact UsVisit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:
(800) 284-2451

Your Payment Is Due**12/16/2021**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

Your Total Due**\$1,902.15**

*PAID 6340
11-28-21*

Previous Balance

488.46

+

Payments

0.00

+

Adjustments

0.00

+

Current Invoice Charges

1,413.69

=

Total Account Balance Due**1,902.15****DETAILS OF SERVICE****Details for Service Location:**

Merrifield Recycled Oil (Sw), 3053 Barnes Ln, Cottondale FL 32431-7111

Customer ID: 25-43670-53005

Description	Date	Ticket	Quantity	Amount
20 YD SPECIAL WASTE	11/03/21	848934	1.00	500.00
LINER			1.00	65.00
DISPOSAL PER TON SP WASTE			10.09	403.60
DISPOSAL PER TON SP				0.00
Ticket Total				968.60
FUEL/ENVIRONMENTAL CHARGE				387.78
REGULATORY COST RECOVERY CHRG				48.81
ADMINISTRATIVE CHARGE				8.50
Total Current Charges				1,413.69



Credit Card

EZ Profile™

Requested Facility: Springhill Landfill ☐ Unsure Profile Number: 412892FL

☐ Multiple Generator Locations (Attach Locations) ☒ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Merrifield Recycled Oil
2. Generator Site Address: 3053 Barnes Lane
(City, State, ZIP) Cottondale FL 32431
3. County: Jackson
4. Contact Name: Jim Merrifield
5. Email: tdsmro@msn.com
6. Phone: (850) 209-2336 7. Fax: _____
8. Generator EPA ID: FLD981-752-041 ☐ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Nonhaz Oil/Water Separator Sludge

Describe Process(es) Generating Material: ☐ See Attached

Treatment of water contaminated with oil associated with external vehicle wash and parking lot drainage. Does not include oil/water sludge from industrial processes.

2. Material Composition and Contaminants: ☐ See Attached

1. Oily sludge/wastewater	100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <u>≥100%</u>	

3. State Waste Codes: _____ ☒ N/A

4. Color: Various

5. Physical State at 70°F: ☐ Solid ☐ Liquid ☒ Other: Sludge

6. Free Liquid Range Percentage: _____ to _____ ☒ N/A

7. pH: _____ to _____ ☒ N/A

8. Strong Odor: ☐ Yes ☒ No Describe: _____

9. Flash Point: ☐ <140°F ☐ 140°–199°F ☒ ≥200° ☐ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☒ Yes

Please identify applicable samples and/or lab reports:

page 4

2. Other information attached (such as MSDS)? ☐ Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☐ I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Jim Merrifield Date: 08/04/2021

Title: Owner

Company: J. E. Merrifield, Inc dba Merrifield Recycled oil

B. BILLING INFORMATION

☐ SAME AS GENERATOR

1. Billing Name: J. E. Merrifield, Inc.
2. Billing Address: PO Box 550
(City, State, ZIP) Cottondale FL 32431
3. Contact Name: Jim Merrifield
4. Email: tdsmro@msn.com
5. Phone: (850) 209-2336 6. Fax: _____
7. WM Hauled? ☒ Yes ☐ No
8. P.O. Number: _____
9. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No

Code: _____

2. State Hazardous Waste? ☐ Yes ☒ No

Code: _____

3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No

4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No

5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☒ No

6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No

7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No

8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☒ No

*If Yes, see Addendum (page 2) for additional questions and space.

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No

a. Regulated by 40 CFR 761? ☐ Yes ☐ No

b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No

c. Were PCB imported into the US? ☐ Yes ☐ No

10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No

11. Contains Asbestos? ☐ Yes ☒ No

→ If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

F. SHIPPING AND DOT INFORMATION

1. ☒ One-Time Event ☐ Repeat Event/Ongoing Business

2. Estimated Quantity/Unit of Measure: 40

☐ Tons ☒ Yards ☐ Drums ☐ Gallons ☐ Other: _____

3. Container Type and Size: 40 yard roll-off

4. USDOT Proper Shipping Name: ☒ N/A

Certification Signature

Jim Merrifield

THINK GREEN®

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE Revised November 06, 2020 © 2020 WM Intellectual Property Holdings, L.L.C.

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Website: <http://www.settek.com>

Analytical Report

(base report)

WO#: 21070781

Date Reported: 7/22/2021

CLIENT: Merrifield Recycled Oil
Matrix: SLUDGE
Lab ID: 21070781-001A
Project:
Client Sample ID MRO #1

Tag Number:
Collection Date: 7/7/2021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TCLP METALS						
				SW7470A	SW7470A	Analyst: JEB
TCLP MERCURY ANALYSIS (SW1311/7470)						
TCLP Mercury	ND	0.0100		mg/L	1	7/20/2021 7:09:00 PM
TCLP METALS						
				SW6010	SW3010A	Analyst: MSK
TCLP METALS ANALYSIS (SW1311/6010)						
TCLP Arsenic(As)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Barium(Ba)	ND	12.5		mg/L	1	7/21/2021 12:01:00 PM
TCLP Cadmium(Cd)	ND	0.250		mg/L	1	7/21/2021 12:01:00 PM
TCLP Chromium(Cr)	ND	0.500		mg/L	1	7/21/2021 12:01:00 PM
TCLP Lead(Pb)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
TCLP Selenium(Se)	ND	0.125		mg/L	1	7/21/2021 12:01:00 PM
TCLP Silver(Ag)	ND	1.25		mg/L	1	7/21/2021 12:01:00 PM
PCB ANALYSIS						
				SW8082		Analyst: PGP
PCB ANALYSIS FOR OILS (8082)						
Aroclor 1016	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1221	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1232	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1242	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1248	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1254	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Aroclor 1260	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Total PCBs	< 1.00	1.00		ppm	1	7/17/2021 4:40:00 AM
Surr: TCMX	105	67.8 - 130		%Rec	1	7/17/2021 4:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OGI	
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 210716C

Sample ID: 21070975-001AMS	SampType: MS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130720						
Client ID: BatchQC	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	18.1	1.00	20.00	0	90.5	55.8	130				
Aroclor 1260	19.2	1.00	20.00	0	96.2	67.4	130				
Total PCBs	37.4	1.00	40.01	0	93.4	64.7	130				
Surr: TCMX	3.76		4.370		85.9	68.2	136				

Sample ID: 21070975-001AMSD		SampType: MSD	TestCode: PCB_OIL(808			Units: ppm	Prep Date:			RunNo: 130720		
Client ID: BatchQC		Batch ID: 210716C	TestNo: SW8082				Analysis Date: 7/17/2021			SeqNo: 3458623		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aroclor 1016	14.5	1.00	20.00	0	72.7	55.8	130	18.11	21.9	30		
Aroclor 1260	19.2	1.00	20.00	0	96.1	67.4	130	19.25	0.125	30		
Total PCBs	33.8	1.00	40.01	0	84.4	64.7	130	37.36	10.1	30		
Surr: TCMX	3.77		4.370		86.2	68.2	136		0			

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analy
	J Analyte detected below quantitation limits	M Manual Integration used to determine area response	MC Value is below Minimum Compound
	ND Not Detected	OG1	P Second column confirmation exceeds
	PL Permit Limit	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: 21070781
22-Jul-21

Client: Merrifield Recycled Oil
Project:

BatchID: 210716C

Sample ID: MB-210716C	SampType: MBLK	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: PBW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 1.00	1.00		0	0						
Aroclor 1221	< 1.00	1.00		0	0						
Aroclor 1232	< 1.00	1.00		0	0						
Aroclor 1242	< 1.00	1.00		0	0						
Aroclor 1248	< 1.00	1.00		0	0						
Aroclor 1254	< 1.00	1.00		0	0						
Aroclor 1260	< 1.00	1.00		0	0						
Total PCBs	< 1.00	1.00		0	0						
Surr: TCMX	3.88		4.370		88.7	20	152				

Sample ID: LCS-210716C	SampType: LCS	TestCode: PCB_OIL(808	Units: ppm	Prep Date:	RunNo: 130719						
Client ID: LCSW	Batch ID: 210716C	TestNo: SW8082		Analysis Date: 7/17/2021	SeqNo: 3458583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	19.5	1.00	20.00	0	97.6	40.4	130				
Aroclor 1260	21.3	1.00	20.00	0	107	58.9	130				
Total PCBs	40.8	1.00	40.01	0	102	44.1	130				
Surr: TCMX	4.09		4.370		93.6	67.8	130				

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original

QC SUMMARY REPORT

WO#: 210707B1

22-Jul-21

Client: Metrol Engineering

Project:

BatchID: 50818

Sample ID: MB-50818	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: PBS	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463112
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: LCS-50818	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: LCS8	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463113
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: 21071001-IE 18	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: Batch01	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463125
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Sample ID: 21071001-IE 18	Sample Type: IE 18	Prep Date: 7/20/2021	RunNo: 130832
Client ID: Batch01	Batch ID: 10418	Analysis Date: 7/20/2021	SeqNo: 3463126
Analyte	Result	RPD	RPD Limit
TCLP Mercury	0.0000	0.0000	0.0000

Qualifiers: B - Sample below detection limit
 J - Sample below detection limit
 ND - Not Detected
 PL - Sample below detection limit
 H - Holding times for preparation or analysis
 MC - Value is below Minimum Compound
 P - Second column confirmation exceeds
 RL - Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: 21070781

22-Jul-21

Client: Merrifield Recycled Oil

Project:

BatchID: 50818

Sample ID: 21071006-010AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 7/20/2021	RunNo: 130832						
Client ID: BatchQC	Batch ID: 50818	TestNo: SW7470A	SW7470A	Analysis Date: 7/20/2021	SeqNo: 3463126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original