



west virginia department of environmental protection

Environmental Enforcement
Hazardous Waste
601 57th Street SE
Charleston, WV 25304
Phone: 304-926-0470

Austin Caperton, Cabinet Secretary
dep.wv.gov

December 7, 2020

Leigh Thompson, Realty Specialist, GSA
US MSHA Dept. of Labor
77 Forsyth Street, SW
Atlanta, GA 30303

Dear Ms. Thompson:

Enclosed is a copy of the Compliance Evaluation Inspection (CEI) report conducted by a representative from the Director of the Division of Water and Waste Management. This report is based on an inspection conducted on December 3, 2020.

There were no deficiencies noted during the inspection of the Mount Hope, WV facility. Thank you for any assistance you may have provided during this inspection.

If you have any questions, please contact Environmental Inspector, Matthew Smith at (304) 414-9727.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Killian', is written over a faint circular stamp.

John Killian
Environmental Inspector Supervisor
Environmental Enforcement - Hazardous Waste

Enclosure

cc: Joseph M. Sizemore, Assistant Chief Inspector, EE - HW/UST/AST
Matthew Smith, Environmental Inspector, EE - HW (via email)

Promoting a healthy environment.



west virginia department of environmental protection

DWWM-EE-Hazardous Waste
601 57th Street SE
Charleston, WV 25304
Phone: 304-926-0499 Ext. 49727

Austin Caperton, Cabinet Secretary
dep.wv.gov

**NON-HANDLER
COMPLIANCE EVALUATION INSPECTION**

The regulations for this inspection are Title 40 Code of Federal Regulation (CFR) Parts 260-279 as adopted and incorporated by reference in the WV Hazardous Waste Management Act (WVSC §22-18), and the WV Hazardous Waste Management Rule (33CSR20)

COMPANY NAME: US MSHA Dept. of Labor

EPA ID #: WV4470300050

MAILING ADDRESS: 77 Forsyth Street, SW
Atlanta, GA 30303

LOCATION: 100 Bluestone Road
Mount Hope, WV 25880
37.896269° -81.167722°

PHONE: 304-590-7456

COUNTY: Fayette

COMPANY CONTACT(s): Ms. Leigh Thompson
Mr. Mike Toney

TITLE(s): Realty Specialist, GSA
HVAC Tech, Northern Mgmt.
Services

EMAIL ADDRESS: leigh.thompson@gsa.gov

HAZARDOUS WASTES:
N/A

ADVISED OF INSPECTION AUTHORITY: Yes

DATE INSPECTED: December 3, 2020

TIME INSPECTED: 10:30 am

QUANTITY PER MONTH:
N/A

INSPECTOR(s): Matthew T. Smith, WVDEP-EE/HW
Gregory Morris, WVDEP-EE/WW
Eric Arrington, WVDEP-EE/WW

VIOLATION(s): No

DISPOSAL COMPANY OR METHOD:
N/A

ACTION TAKEN: None

PREPARED BY: Matthew T. Smith, Environmental Inspector

On arrival, we met with Mr. Toney, presented credentials and explained the purpose of the inspection. Mr. Toney accompanied us during this inspection.

This inspection was requested by Ms. Leigh Thompson, because the facility closed in May of 2020 and the Government Services Administration wanted to verify that there were no hazardous waste issues associated with the property. The facility was last inspected by the WVDEP in 2003 and it was determined at that time that the facility was a non-handler of hazardous waste. No hazardous waste was found on-site at the time of the inspection. There were three boxes of universal waste lamps present. All

the boxes were closed and properly labeled. These boxes will be taken to the Mine Safety and Health Administration facility in Beckley where they will be picked up by West Virginia Light. There were also some miscellaneous products (ie. Cleaning products, paint, aerosols) used for building upkeep present at the time of the inspection. Mr. Toney said these products will be removed when the property is sold. Finally, we discovered that the facility had a 1,000-gallon underground storage tank that was closed in place in 2018. A copy of the closure report is shown in Attachment 1. No environmental issues were found at the time of tank closure.

We concluded the inspection and discussed inspection findings with Mr. Toney. We thanked him for his time and cooperation, then departed.

Later in the day of December 3, I spoke with Terry Montgomery, who was the Lab Director at the facility. He moved to the MSHA facility in Beckley, WV when the Mount Hope facility closed. He started working at the lab in 2002. He said they had ceased generating hazardous waste prior to him working at the lab.

Compliance Evaluation:

No violations of the applicable regulations were observed.

Attachment 1

MSHA Mount Hope Facility UST Closure Report

October 4, 2018

Northern Management Services, Inc.
300 Virginia Street, East
Charleston, West Virginia 25301

Attention: Jeffrey D. Dorsey, Project Manager
Northern Management Services, Inc.

Subject: **UST Closure Report**
Mount Hope Mine Safety and Health Administration Building
Mount Hope, Fayette County, West Virginia

Dear Mr. Dorsey,

In August and September of 2018, CORE Environmental Services, Inc. (CORE) conducted a closure-in-place of an underground storage tank (UST) at the Mt. Hope Mine Safety and Health Administration (MSHA) Building. CORE has prepared this Closure Report to document the closure-in-place of one 1,000-gallon capacity #2 fuel oil UST at the referenced facility. The 1,000-gallon #2 fuel oil UST was constructed of steel and is referred to as UST #1. The U.S.G.S. 7.5 minute "Oak Hill, WV" topographic map indicating the site location and a site map depicting pertinent features are included as Figures 1 and 2, respectively, in Appendix A.

On August 15, 2018, CORE advanced five soil borings to collect closure samples using a track-mounted Geoprobe®. Soil sample locations are illustrated on the enclosed Figure 2. Soil borings at the East Wall, North Wall, South Wall, West Wall and Product Piping were advanced at the locations indicated on Figure 2 for the collection of soil samples. During the advancement of these soil borings, soils were logged in the field by a CORE Field Technician. Site soils were classified in general accordance with the Unified Soils Classification System (USCS) and a boring log of each borehole was produced. Soil boring logs for East Wall, North Wall, South Wall, West Wall and Product Piping are included in Appendix C.

The observed subsurface lithology generally included gravel with brown, silty clay/sand. Field screening was performed during the advancement of the soil borings by collecting soil from the macro-samplers in disposable plastic bags and using a calibrated photo-ionization detector (PID) to detect the relative concentrations of organic vapors in the soil. PID observations above the 10ppm threshold were not observed

during field screening of any of the soil borings at East Wall, North Wall, South Wall, West Wall, or Product Piping.

Five soil samples were packed in ice and transported under standard chain-of-custody to REI Consultants, Inc. (REIC) for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) via United States Environmental Protection Agency (USEPA) Method 8260B, as well as analysis for Polycyclic Aromatic Hydrocarbons (PAHs) via EPA Method 8270D.

Laboratory analytical data indicated that all soil samples did not exceed the WVDEP Groundwater Program action levels. There was no observation of fuel in the soil (visual or olfactory) and the PAHs that were detected appear to be related to coal, as observed during the on-site soil classification. Soil analytical results are illustrated in Table 1 of Appendix B. A copy of the laboratory analytical report is included as Appendix D.

Closure of the referenced UST was performed on September 4, 2018 with Jared Sommers providing Class B oversight. Approximately 728 gallons of non-hazardous #2 fuel oil and tank cleaning liquids (water) were removed from the 1,000-gallon UST using a vacuum truck. The UST was power washed internally via the fill port. Liquid disposal documentation is included as Appendix E.

On September 4, 2018, the 1,000-gallon UST was closed-in-place utilizing Perma-Fill Foam as the inert material used to fill the tank. Approximately 10 linear feet of underground product piping was also closed-in-place during the UST closure by draining, filling the product lines with foam, and capping the lines. Photographs documenting the closure in place are included as Appendix F. Specification for the foam fill are included as Appendix G.

Please contact me directly at (304) 520-4260 if you have any questions regarding this correspondence or the project in general.

Sincerely,

CORE Environmental Services, Inc.



Matthew A. Ford, LRS
Senior Consultant

Appendices:

Appendix A: Figures

Appendix B: Tables

Appendix C: Soil Boring Logs

Appendix D: Laboratory Analytical Results

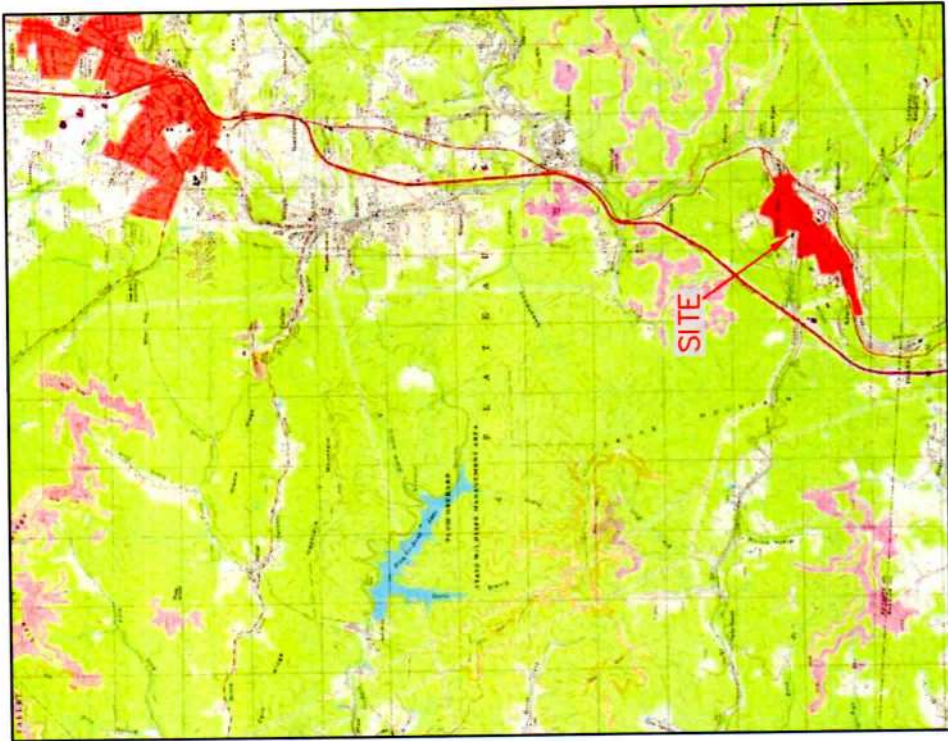
Appendix E: Disposal Documentation

Appendix F: Photographic Documentation

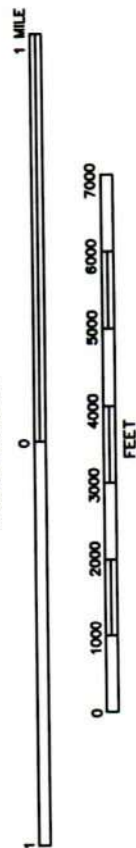
Appendix G: Perma-Fill Foam Specifications

APPENDIX A

FIGURES



SCALE 1:24000

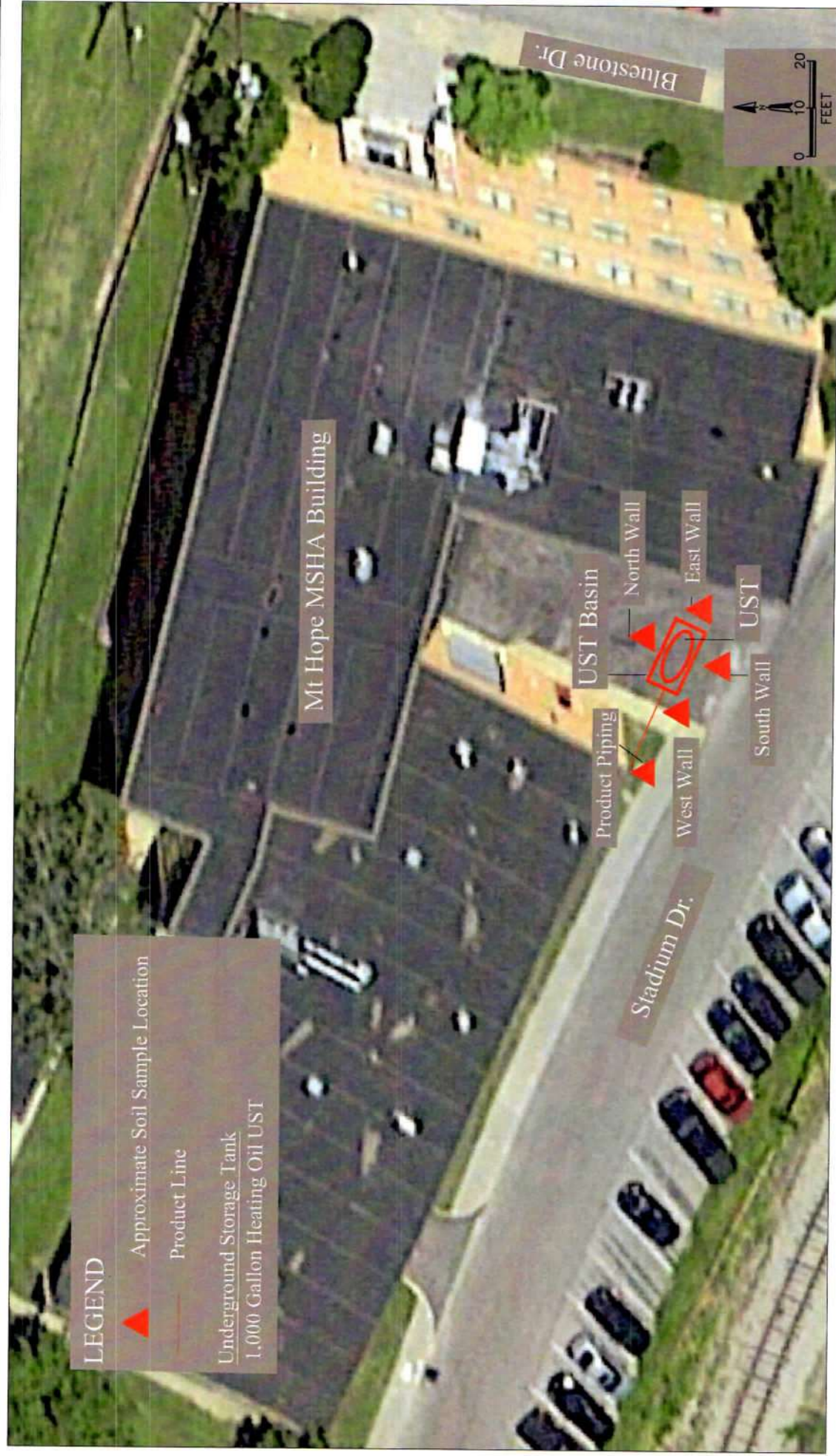


USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE:
Oak Hill, WV

SITE COORDINATES:
38.988650° N
-80.217144° W



FIGURE NO.	CLIENT/LOCATION:
1	MT. HOPE MSHA BUILDING MT HOPE, FAYETTE COUNTY, WEST VIRGINIA
DRAWN BY:	DESCRIPTION:
K. MAXWELL	SITE LOCATION MAP
REVIEWED BY:	DATE:
	9/27/2018
PROJECT NO.	NMS-2018-320



LEGEND

▲ Approximate Soil Sample Location

— Product Line

▭ Underground Storage Tank
1,000 Gallon Heating Oil UST

OWN:	KM	DES.:	PROJECT NO.:
CHKD:		APPD:	NMS-2018-320
DATE:	9/27/2018	REV.:	FIGURE NO.:
			2

APPENDIX B

TABLES

TABLE 1A -SOIL ANALYTICAL RESULTS

Mt. Hope MSHA Building
U.S. General Services Administration
Mt. Hope, Fayette County, West Virginia

August 15, 2018

Sample ID	Sample Date	Sample Depth (feet bgs)	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Total Xylenes (ug/kg)
East Wall	8/15/2018	6-8	ND (<1.40)	ND (<1.40)	ND (<1.40)	ND (<2.80)
North Wall	8/15/2018	2.5-5	ND (<1.42)	ND (<1.42)	ND (<1.42)	ND (<2.84)
South Wall	8/15/2018	8-10	ND (<1.68)	ND (<1.68)	ND (<1.68)	ND (<3.36)
West Wall	8/15/2018	7-10	ND (<1.46)	ND (<1.46)	ND (<1.46)	ND (<2.92)
Product Piping	8/15/2018	5-10	ND (<1.50)	ND (<1.50)	ND (<1.50)	ND (<3.00)
WVDEP LUST Action Level			50	*	*	*

Benzene, toluene, ethylbenzene and xylenes (BTEX) were analyzed via EPA Method 8021B.

ND = No Detection, concentration is below detection limit of the analytical method.

* = Not applicable, not regulated by the West Virginia Department of Environmental Protection (WVDEP) Office of Environmental Remediation (OER).

() = Method Detection Limit

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

Bold indicates concentration above the current WVDEP Leaking Underground Storage Tank (LUST) action level.

TABLE 1B - SOIL ANALYTICAL RESULTS
(PAMs)

Mt. Hope MSHA Building
Mt. Hope, Fayette County, West Virginia

August 15, 2018

Sample ID	Sample Date	Sample Depth (feet bgs)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd) pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
East Wall	8/15/2018	6-8	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)	ND (<0.067)
North Wall	8/15/2018	2.5-5	ND (<0.067)	ND (<0.067)	0.076 J	0.441	0.436	0.604	0.478	ND (<0.067)	0.955	ND (<0.067)	0.287 J	ND (<0.067)	0.400	0.804
South Wall	8/15/2018	8-10	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)
West Wall	8/15/2018	7-10	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)
Product Piping	8/15/2018	5-10	ND (<0.066)	ND (<0.066)	ND (<0.066)	ND (<0.066)	0.079 J	0.071 J	0.071 J	ND (<0.066)	0.083 J	ND (<0.066)	ND (<0.066)	ND (<0.066)	0.076 J	ND (<0.066)
WVDEP LUST Action Level			1	1	1	1	1	1	1	1	1	1	1	1	1	1

Polycyclic Aromatic Hydrocarbons (PAHs) were analyzed by EPA Method 8270D.

ND = Not Detected, concentration was below the detection limit of the analytical method.

** = Not Detectable, not regulated by the West Virginia Department of Environmental Protection (WVDEP).

*** = Laboratory Detection Limit exceeds WVDEP Leaking Underground Storage Tank (LUST) action level.

() = Method Detection Limit

J = Analyte concentration is reported, and is less than the Practical Quantitation Limit (PQL) and greater than, or equal to, the Method Detection Limit. The result reported is an estimate.

mg/kg = milligram per kilogram

Red indicates concentration above the current WVDEP Leaking Underground Storage Tank (LUST) action level.

APPENDIX C

SOIL BORING LOGS

PROJECT NAME:		Mt. Hope MSHA USY Closure		BORING NUMBER:		East Wall		DRILLING METHOD:		Direct Push	
ADDRESS:		100 Bluestone Rd.		CONTRACTOR:		CORE Environmental Services, Inc.		DRILLING RIG:		Geoprobe 7822 DT	
CITY, STATE:		Mt. Hope WV						DRILL CREW:		Envirocheck of Va.	
PROJECT NUMBER:		NMS-2018-320		DATE STARTED:		8/15/2018		DATE / TIME FINISHED:		8/15/2018	
LAND OWNER:		U.S. General Services Administration		LOGGED BY:		Jared Sommers					

SAMPLE		DEPTH	LITHOLOGIC DESCRIPTIONS	OVM OVA (circle one)
RECOVERY	INTERVAL			UNITS: ppm
		G.S.	Asphalt	
20%	0-2 ft. bgs	1	Gravel/Pea Gravel	0.0
		2		
	2-4 ft. bgs	3		0.0
		4		Brown silt and sand with gravel fragments (SM)
20%	4-6 ft. bgs	5	Wet	0.1
		6		
	6-8 ft. bgs	7	Grades more silt	0.1
		8		
	8-10 ft. bgs	9		0.1
		10		

Refusal met at 10 ft. below ground surface (bgs). Soil sample retained for laboratory analysis from 5-10 ft. bgs. No temporary well screen placed. No water sample retained for laboratory analysis.

PROJECT NAME:		Mt. Hope MSHA UST Closure		BORING NUMBER:		South Wall		DRILLING METHOD:		Direct Push	
ADDRESS:		100 Bluestone Rd.		CONTRACTOR:		CORE Environmental Services, Inc.		DRILLING RIG:		Geoprobe 7822 DT	
CITY, STATE:		Mt. Hope WV						DRILL CREW:		Envirocheck of Va.	
PROJECT NUMBER:		NMS-2018-320		DATE STARTED:		8/15/2018		DATE / TIME FINISHED:		8/15/2018	
LAND OWNER:		U.S. General Services Administration		LOGGED BY:		Jared Sommers					

SAMPLE		DEPTH	LITHOLOGIC DESCRIPTIONS	OVM OVA (circle one)
RECOVERY	INTERVAL			UNITS:
		G.S.	Asphalt	ppm
35%	0-2 ft. bgs	1	Concrete	NR
		2		
	2-4 ft. bgs	3	Light brown sand and silt, dry and loose (SM)	0.0
		4		
60%	4-6 ft. bgs	5	Coal slag	NR
		6		
	6-8 ft. bgs	7	Light brown clay with sand and silt	0.0
		8		
	8-10 ft. bgs	9		0.0
		10		

Advanced to total depth of 10 ft. below ground surface (bgs). Soil sample retained for laboratory analysis from 6-8 ft. bgs. No temporary well screen placed. No water sample retained for laboratory analysis.

PROJECT NAME:		Mt. Hope MSHA UST Closure		BORING NUMBER:		North Wall		DRILLING METHOD:		Direct Push					
ADDRESS:		100 Bluestone Rd.		CONTRACTOR:		CORE Environmental Services, Inc.		DRILLING RIG:		Geoprobe 7822 DT					
CITY, STATE:		Mt. Hope WV						DRILL CREW:		Envirocheck of Va.					
PROJECT NUMBER:		NMS-2018-320		DATE STARTED:		8/15/2018		DATE / TIME FINISHED:		8/15/2018					
LAND OWNER:		U.S. General Services Administration		LOGGED BY:		Jared Sommers									
SAMPLE		DEPT H		LITHOLOGIC DESCRIPTIONS								OVM OVA (circle one)			
RECOVERY		INTERVAL										UNITS: ppm			
		G.S.		Asphalt											
25%		0-2 ft. bgs		Concrete								NR			
		2-4 ft. bgs		Fill								0.7			
0%		4-6 ft. bgs		Light brown sand and silt; soft and moist (SM)											
		6-8 ft. bgs		No recovery								NR			
		8-10 ft. bgs													

Advanced to total depth of 10 ft. below ground surface (bgs). Soil sample retained for laboratory analysis from 2.5 - 5 ft. bgs. No temporary well screen placed. No water sample retained for laboratory analysis.

PROJECT NAME:		Mt. Hope MSHA UST Closure		BORING NUMBER:		West Wall		DRILLING METHOD:		Direct Push	
ADDRESS:		100 Bluestone Rd.		CONTRACTOR:		CORE Environmental Services, Inc.		DRILLING RIG:		Geoprobe 7822 DT	
CITY, STATE:		Mt. Hope WV						DRILL CREW:		Envirocheck of Va.	
PROJECT NUMBER:		NMS-2018-320		DATE STARTED:		8/15/2018		DATE / TIME FINISHED:		8/15/2018	
LAND OWNER:		U.S. General Services Administration		LOGGED BY:		Jared Sommers					

SAMPLE		DEPTH	LITHOLOGIC DESCRIPTIONS	OVM OVA (circle one)
RECOVERY	INTERVAL			UNITS:
		G.S.	Grass	ppm
15%	0-2 ft bgs	1	Brown silt and sand; firm and dry (SM)	0.0
		2		
	2-5 ft bgs	3	Coal slag	0.0
		4		
		5		
70%	5-7 ft bgs	6		0.0
		7		
	7-10 ft bgs	8	Brown and gray silt and sand; moist and soft	0.0
		9		
		10		

Advanced to total depth of 10 ft. below ground surface (bgs). Soil sample retained for laboratory analysis from 7-10 ft. bgs. No temporary well screen placed. No water sample retained for laboratory analysis.

PROJECT NAME:		Mt. Hope MSHA UST Closure		BORING NUMBER:		Product Piping		DRILLING METHOD:		Direct Push	
ADDRESS:		100 Bluestone Rd.		CONTRACTOR:		CORE		DRILLING RIG:		Geoprobe 7822 DT	
CITY, STATE:		Mt. Hope WV				Environmental		DRILL CREW:		Envirocheck of Va.	
PROJECT NUMBER:		NMS-2018-320		DATE STARTED:		8/15/2018		DATE / TIME FINISHED:		8/15/2018	
LAND OWNER:		U.S. General Services Administration		LOGGED BY:		Jared Sommers					

SAMPLE		DEPTH	LITHOLOGIC DESCRIPTIONS	OVM OVA (circle one)
RECOVERY	INTERVAL			UNITS:
				ppm
		G.S.	Grass	
30%	0-2 ft. bgs	1	Brown silt and sand (SM)	0.0
		2		
	2-4 ft. Bgs	3	Gravel fragments	0.0
		4		
	4-6 ft. bgs	5	Coal slag	0.0
		6		
50%	6-8 ft. bgs	7	Brown silt and sand with clay; moist and firm	0.0
		8		
	8-10 ft. bgs	9		0.0
		10		

Advanced to total depth of 10 ft. below ground surface (bgs). Soil sample retained for laboratory analysis from 5-10 ft. bgs. No temporary well screen placed. No water sample retained for laboratory analysis.

APPENDIX D

LABORATORY ANALYTICAL RESULTS



Pace Analytical Services
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

782 North Lee Highway
Lexington, VA 24450
TEL: 540.464.1880

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Tuesday, August 21, 2018

Matt Ford
CORE ENVIRONMENTAL SERVICES INC.
292 OAK CARRIAGE DRIVE
LEWISBURG, WV 24901

TEL: (304) 520-4260

FAX:

RE: NMS- MT. HOPE

Work Order #: 18082496

Dear Matt Ford:

Pace Analytical Services received 6 sample(s) on 8/16/2018 for the analyses presented in the following report.

Sincerely,

A handwritten signature in black ink that reads "Jimmy Suttle". The signature is written in a cursive, flowing style.

Jimmy Suttle
Project Manager
(304) 250-6234

Pace Analytical Services - Case Narrative

WO#: 18082496

Date Reported: 8/21/2018
Original

Client: CORE ENVIRONMENTAL SERVICES INC.

Project: NMS- MT. HOPE

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

X: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839

Lexington, VA: VADCLS(VELAP) 460150

Morgantown, WV: WVDHHR 003112M, WVDEP 387

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client:	CORE ENVIRONMENTAL SERVICES INC.	Collection Date:	8/15/2018 10:45:00 AM
Project:	NMS- MT. HOPE	Date Received:	8/16/2018
Lab ID:	18082496-01A	Matrix:	Soil
Client Sample ID:	NORTH WALL	Site ID:	MT. HOPE , WV

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: MF

Percent Moisture	18	NA	1.0	NA		wt%	08/17/18 4:12PM		
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SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Acenaphthylene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Anthracene	0.076	0.067	0.333	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Benzo(a)anthracene	0.441	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Benzo(a)pyrene	0.436	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Benzo(b)fluoranthene	0.604	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Benzo(g,h,i)perylene	0.255	0.067	0.333	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Benzo(k)fluoranthene	0.270	0.067	0.333	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Chrysene	0.478	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Dibenzo(a,h)anthracene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Fluoranthene	0.955	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Fluorene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Indeno(1,2,3-cd)pyrene	0.287	0.067	0.333	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Naphthalene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Phenanthrene	0.400	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Pyrene	0.804	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 4:16AM	PAVA
Surr: Nitrobenzene-d5	84.4	NA	23.3-114	NA		%Rec	08/17/18 11:54AM	08/21/18 4:16AM	
Surr: 2-Fluorobiphenyl	95.2	NA	24.2-119	NA		%Rec	08/17/18 11:54AM	08/21/18 4:16AM	
Surr: 4-Terphenyl-d14	84.9	NA	37.5-127	NA		%Rec	08/17/18 11:54AM	08/21/18 4:16AM	

VOLATILE ORGANIC COMPOUNDS

Method: SW8260B

Analyst: JM

Benzene	ND	1.42	2.84	NA		µg/Kg	08/17/18 3:24PM	08/21/18 11:02AM	PAVA
Ethylbenzene	ND	1.42	2.84	NA		µg/Kg	08/17/18 3:24PM	08/21/18 11:02AM	PAVA
m,p-Xylene	ND	2.84	5.68	NA		µg/Kg	08/17/18 3:24PM	08/21/18 11:02AM	PAVA
o-Xylene	ND	1.42	2.84	NA		µg/Kg	08/17/18 3:24PM	08/21/18 11:02AM	PAVA
Toluene	ND	1.42	2.84	NA		µg/Kg	08/17/18 3:24PM	08/21/18 11:02AM	PAVA
Surr: 1,2-Dichloroethane-d4	110	NA	79.9-120	NA		%Rec	08/17/18 3:24PM	08/21/18 11:02AM	
Surr: 4-Bromofluorobenzene	114	NA	77-148	NA		%Rec	08/17/18 3:24PM	08/21/18 11:02AM	
Surr: Dibromofluoromethane	104	NA	43.2-154	NA		%Rec	08/17/18 3:24PM	08/21/18 11:02AM	
Surr: Toluene-d8	103	NA	64.1-129	NA		%Rec	08/17/18 3:24PM	08/21/18 11:02AM	

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client:	CORE ENVIRONMENTAL SERVICES INC.	Collection Date:	8/15/2018 10:30:00 AM
Project:	NMS- MT. HOPE	Date Received:	8/16/2018
Lab ID:	18082496-02A	Matrix:	Soil
Client Sample ID:	SOUTH WALL	Site ID:	MT. HOPE , WV

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: MF

Percent Moisture	19	NA	1.0	NA	wt%	08/17/18 4:12PM
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SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Acenaphthylene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Benzo(a)anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Benzo(a)pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Benzo(b)fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Benzo(g,h,i)perylene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Benzo(k)fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Chrysene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Dibenzo(a,h)anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Fluorene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Indeno(1,2,3-cd)pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Naphthalene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Phenanthrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 4:40AM	PAVA
Surr: Nitrobenzene-d5	86.3	NA	23.3-114	NA	%Rec	08/17/18 11:54AM	08/21/18 4:40AM	
Surr: 2-Fluorobiphenyl	94.9	NA	24.2-119	NA	%Rec	08/17/18 11:54AM	08/21/18 4:40AM	
Surr: 4-Terphenyl-d14	81.6	NA	37.5-127	NA	%Rec	08/17/18 11:54AM	08/21/18 4:40AM	

VOLATILE ORGANIC COMPOUNDS

Method: SW8260B

Analyst: JM

Benzene	ND	1.68	3.36	NA	µg/Kg	08/17/18 3:24PM	08/21/18 11:31AM	PAVA
Ethylbenzene	ND	1.68	3.36	NA	µg/Kg	08/17/18 3:24PM	08/21/18 11:31AM	PAVA
m,p-Xylene	ND	3.36	6.72	NA	µg/Kg	08/17/18 3:24PM	08/21/18 11:31AM	PAVA
o-Xylene	ND	1.68	3.36	NA	µg/Kg	08/17/18 3:24PM	08/21/18 11:31AM	PAVA
Toluene	ND	1.68	3.36	NA	µg/Kg	08/17/18 3:24PM	08/21/18 11:31AM	PAVA
Surr: 1,2-Dichloroethane-d4	113	NA	79.9-120	NA	%Rec	08/17/18 3:24PM	08/21/18 11:31AM	
Surr: 4-Bromofluorobenzene	102	NA	77-148	NA	%Rec	08/17/18 3:24PM	08/21/18 11:31AM	
Surr: Dibromofluoromethane	103	NA	43.2-154	NA	%Rec	08/17/18 3:24PM	08/21/18 11:31AM	
Surr: Toluene-d8	95.3	NA	64.1-129	NA	%Rec	08/17/18 3:24PM	08/21/18 11:31AM	

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client:	CORE ENVIRONMENTAL SERVICES INC.	Collection Date:	8/15/2018 9:45:00 AM
Project:	NMS- MT. HOPE	Date Received:	8/16/2018
Lab ID:	18082496-03A	Matrix:	Soil
Client Sample ID:	EAST WALL	Site ID:	MT. HOPE , WV

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: MF

Percent Moisture	15	NA	1.0	NA		wt%	08/17/18 4:12PM		
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SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Acenaphthylene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Anthracene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Benzo(a)anthracene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Benzo(a)pyrene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Benzo(b)fluoranthene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Benzo(g,h,i)perylene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Benzo(k)fluoranthene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Chrysene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Dibenzo(a,h)anthracene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Fluoranthene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Fluorene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Indeno(1,2,3-cd)pyrene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Naphthalene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Phenanthrene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Pyrene	ND	0.067	0.333	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:04AM	PAVA
Surr: Nitrobenzene-d5	84.0	NA	23.3-114	NA		%Rec	08/17/18 11:54AM	08/21/18 5:04AM	
Surr: 2-Fluorobiphenyl	90.2	NA	24.2-119	NA		%Rec	08/17/18 11:54AM	08/21/18 5:04AM	
Surr: 4-Terphenyl-d14	82.0	NA	37.5-127	NA		%Rec	08/17/18 11:54AM	08/21/18 5:04AM	

VOLATILE ORGANIC COMPOUNDS

Method: SW8260B

Analyst: JM

Benzene	ND	1.40	2.80	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:00PM	PAVA
Ethylbenzene	ND	1.40	2.80	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:00PM	PAVA
m,p-Xylene	ND	2.80	5.60	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:00PM	PAVA
o-Xylene	ND	1.40	2.80	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:00PM	PAVA
Toluene	ND	1.40	2.80	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:00PM	PAVA
Surr: 1,2-Dichloroethane-d4	111	NA	79.9-120	NA		%Rec	08/17/18 3:24PM	08/21/18 12:00PM	
Surr: 4-Bromofluorobenzene	103	NA	77-148	NA		%Rec	08/17/18 3:24PM	08/21/18 12:00PM	
Surr: Dibromofluoromethane	104	NA	43.2-154	NA		%Rec	08/17/18 3:24PM	08/21/18 12:00PM	
Surr: Toluene-d8	96.2	NA	64.1-129	NA		%Rec	08/17/18 3:24PM	08/21/18 12:00PM	

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client: CORE ENVIRONMENTAL SERVICES INC.
Project: NMS- MT. HOPE
Lab ID: 18082496-04A
Client Sample ID: WEST WALL

Collection Date: 8/15/2018 11:15:00 AM
Date Received: 8/16/2018
Matrix: Soil
Site ID: MT. HOPE , WV

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: MF

Percent Moisture	19	NA	1.0	NA	wt%	08/17/18 4:12PM		
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SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Acenaphthylene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Benzo(a)anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Benzo(a)pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Benzo(b)fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Benzo(g,h,i)perylene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Benzo(k)fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Chrysene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Dibenzo(a,h)anthracene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Fluoranthene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Fluorene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Indeno(1,2,3-cd)pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Naphthalene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Phenanthrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Pyrene	ND	0.066	0.331	NA	mg/Kg	08/17/18 11:54AM	08/21/18 5:27AM	PAVA
Surr: Nitrobenzene-d5	85.7	NA	23.3-114	NA	%Rec	08/17/18 11:54AM	08/21/18 5:27AM	
Surr: 2-Fluorobiphenyl	95.6	NA	24.2-119	NA	%Rec	08/17/18 11:54AM	08/21/18 5:27AM	
Surr: 4-Terphenyl-d14	81.1	NA	37.5-127	NA	%Rec	08/17/18 11:54AM	08/21/18 5:27AM	

VOLATILE ORGANIC COMPOUNDS

Method: SW8260B

Analyst: JM

Benzene	ND	1.46	2.92	NA	µg/Kg	08/17/18 3:24PM	08/21/18 12:29PM	PAVA
Ethylbenzene	ND	1.46	2.92	NA	µg/Kg	08/17/18 3:24PM	08/21/18 12:29PM	PAVA
m,p-Xylene	ND	2.92	5.84	NA	µg/Kg	08/17/18 3:24PM	08/21/18 12:29PM	PAVA
o-Xylene	ND	1.46	2.92	NA	µg/Kg	08/17/18 3:24PM	08/21/18 12:29PM	PAVA
Toluene	ND	1.46	2.92	NA	µg/Kg	08/17/18 3:24PM	08/21/18 12:29PM	PAVA
Surr: 1,2-Dichloroethane-d4	112	NA	79.9-120	NA	%Rec	08/17/18 3:24PM	08/21/18 12:29PM	
Surr: 4-Bromofluorobenzene	103	NA	77-148	NA	%Rec	08/17/18 3:24PM	08/21/18 12:29PM	
Surr: Dibromofluoromethane	104	NA	43.2-154	NA	%Rec	08/17/18 3:24PM	08/21/18 12:29PM	
Surr: Toluene-d8	94.5	NA	64.1-129	NA	%Rec	08/17/18 3:24PM	08/21/18 12:29PM	

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client:	CORE ENVIRONMENTAL SERVICES INC.	Collection Date:	8/15/2018 11:25:00 AM
Project:	NMS- MT. HOPE	Date Received:	8/16/2018
Lab ID:	18082496-05A	Matrix:	Soil
Client Sample ID:	PRODUCT PIPING	Site ID:	MT. HOPE, WV

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
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PERCENT MOISTURE

Method: SM2540 B-1997

Analyst: MF

Percent Moisture	24	NA	1.0	NA		wt%	08/17/18 4:12PM		
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SEMIVOLATILE ORGANIC COMPOUNDS

Method: SW8270D

Analyst: NC

Acenaphthene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Acenaphthylene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Anthracene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Benzo(a)anthracene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Benzo(a)pyrene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Benzo(b)fluoranthene	0.079	0.066	0.332	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Benzo(g,h,i)perylene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Benzo(k)fluoranthene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Chrysene	0.071	0.066	0.332	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Dibenzo(a,h)anthracene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Fluoranthene	0.083	0.066	0.332	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Fluorene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Indeno(1,2,3-cd)pyrene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Naphthalene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Phenanthrene	0.076	0.066	0.332	NA	J	mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Pyrene	ND	0.066	0.332	NA		mg/Kg	08/17/18 11:54AM	08/21/18 5:51AM	PAVA
Surr: Nitrobenzene-d5	88.3	NA	23.3-114	NA		%Rec	08/17/18 11:54AM	08/21/18 5:51AM	
Surr: 2-Fluorobiphenyl	93.0	NA	24.2-119	NA		%Rec	08/17/18 11:54AM	08/21/18 5:51AM	
Surr: 4-Terphenyl-d14	80.2	NA	37.5-127	NA		%Rec	08/17/18 11:54AM	08/21/18 5:51AM	

VOLATILE ORGANIC COMPOUNDS

Method: SW8260B

Analyst: JM

Benzene	ND	1.50	3.00	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:58PM	PAVA
Ethylbenzene	ND	1.50	3.00	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:58PM	PAVA
m,p-Xylene	ND	3.00	6.00	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:58PM	PAVA
o-Xylene	ND	1.50	3.00	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:58PM	PAVA
Toluene	ND	1.50	3.00	NA		µg/Kg	08/17/18 3:24PM	08/21/18 12:58PM	PAVA
Surr: 1,2-Dichloroethane-d4	111	NA	79.9-120	NA		%Rec	08/17/18 3:24PM	08/21/18 12:58PM	
Surr: 4-Bromofluorobenzene	106	NA	77-148	NA		%Rec	08/17/18 3:24PM	08/21/18 12:58PM	
Surr: Dibromofluoromethane	104	NA	43.2-154	NA		%Rec	08/17/18 3:24PM	08/21/18 12:58PM	
Surr: Toluene-d8	96.3	NA	64.1-129	NA		%Rec	08/17/18 3:24PM	08/21/18 12:58PM	

Pace Analytical Services - Analytical Report

WO#: 18082496

Date Reported: 8/21/2018
Original

Client:	CORE ENVIRONMENTAL SERVICES INC.	Collection Date:	8/15/2018 12:00:00 AM
Project:	NMS- MT. HOPE	Date Received:	8/16/2018
Lab ID:	18082496-06A	Matrix:	Trip Blank
Client Sample ID:	TRIP BLANK	Site ID:	MT. HOPE , WV

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B			Analyst: DTC		
Benzene	ND	0.500	1.00	NA	µg/L	08/17/18 3:23PM	08/21/18 12:59PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	08/17/18 3:23PM	08/21/18 12:59PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	08/17/18 3:23PM	08/21/18 12:59PM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	08/17/18 3:23PM	08/21/18 12:59PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L	08/17/18 3:23PM	08/21/18 12:59PM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.0	NA	65-141	NA	%Rec	08/17/18 3:23PM	08/21/18 12:59PM	
Surr: 4-Bromofluorobenzene	100	NA	79.8-118	NA	%Rec	08/17/18 3:23PM	08/21/18 12:59PM	
Surr: Dibromofluoromethane	105	NA	78.2-114	NA	%Rec	08/17/18 3:23PM	08/21/18 12:59PM	
Surr: Toluene-d8	98.6	NA	74.1-133	NA	%Rec	08/17/18 3:23PM	08/21/18 12:59PM	



Pace Analytical Services, LLC.
PO Box 684056
Chicago, IL 60695-4056
TEL: (304)255-2500
Website: www.reiclabs.com

Sample Receipt Checklist

Client Name:	COR015	Work Order Number:	18082496
RCPNo:	1	Date and Time Received:	8/16/2018 6:02:39 PM
		Received by:	Amanda Wilkins
Completed By:	Doug Arthur	Reviewed By:	
Completed Date:	8/16/2018 6:04:13 PM	Reviewed Date:	

Carrier Name: REIC

- | | | | |
|--|---|-----------------------------|---|
| 1. Chain of custody present? | Yes ☒ | No ☐ | |
| 2. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 3. Are matrices correctly identified on Chain of custody? | Yes ☒ | No ☐ | |
| 4. Is it clear what analyses were requested? | Yes ☒ | No ☐ | |
| 5. Custody seals intact? | Yes ☐ | No ☐ | Not Present ☒ |
| 6. Samples in proper container type and preservative? | Yes ☒ | No ☐ | |
| 7. Were correct preservatives noted on COC? | Yes ☒ | No ☐ | NA ☐ |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. Were container labels complete? | Yes ☒ | No ☐ | |
| 11. All samples received within holding time? | Yes ☒ | No ☐ | |
| 12. Was an attempt made to cool the samples? | Yes ☒ | No ☐ | NA ☐ |
| 13. Sample Temp. taken and recorded upon receipt? | Yes ☒ | No ☐ | To 1.9 °C |
| 14. Water - Were bubbles absent in VOC vials? | Yes ☐ | No ☐ | No Vials ☒ |
| 15. Are Samples considered acceptable? | Yes ☒ | No ☐ | |
| 16. COC filled out properly? | Yes ☒ | No ☐ | |

Client Notification/Response

Client Name:	COR015	Work Order Number:	18082496
Comment:			
Client Contacted:	Yes ☐	No ☐	NA ☒
Person Contacted:			
Contact Mode:	Phone ☐	Fax: ☐	Email: ☐
In Person:	☐		
Date Contacted:	Contacted By:		
Regarding:			
Client Instructions:			
Corrective Action:			

CHAIN OF CUSTODY RECORD

18082496

COR015
CORE ENVIRONMENTAL SERVI

Jimmy Suttle

REIC
RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

MAIN LABORATORY & CORPORATE HEADQUARTERS:

P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • 304-255-2572 fax • www.reiclabs.comMID-OHIO VALLEY
Service Center101 17th Street
Ashland, KY 41101
606-393-5027SHENANDOAH
Service Center1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183ROANOKE
Service Center3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276MORGANTOWN
Service Center16 Commerce Drive
Westover, WV 26501
304-741-5861

TURNAROUND TIME

☐ NORMAL

RUSH TURNAROUND*

☐ 5 DAY☒ 3 DAY☐ 2 DAY☐ 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via:

☒ Email☐ Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

Client: CORE Environmental Services, Inc. PO# NMS-2018-320
 Contact Person: Matt Ford Phone: 304-520-4260
 QUOTE# 292 Oak Carrige Dr. Email: mford@core-env.com
 Address: 292 Oak Carrige Dr. City: Lewisburg State: WV Zip: 24901
 Billing Address (if different):

City: Mt. Hope, WV State: WV Zip: 24901
 Site ID & State: Mt. Hope, WV Project ID: NMS-Mt. Hope Samples: WJ3

Preservative Codes:

- 0 None
 - 1 Hydrochloric Acid
 - 2 Nitric Acid
 - 3 Sulfuric Acid
 - 4 Sodium Thiosulfate
 - 5 Sodium Hydroxide
 - 6 Sodium Arsenite
 - 7 Ascorbic Acid
 - 8 Sodium Bisulfate/Methanol
 - 9 Ammonium Chloride
 - 10 C86 Buffer
 - 11 Sodium Sulfite
 - 12 Hydrochloric Acid
- * (Use blank for a preservative not listed.)

ENTER
PRESERVATIVE
CODE

COMMENTS:

Report to MDL
 VOA - grab
 90Z - Comp

CUSTODY SEALS

1 Y 1 N

Delivered by: ☐ UPS ☐ FedEx ☐ USPS Other

REIC	Temp at arrival:	1 °C	ICED?	Y	N	Containers provided by:	REIC	Client	Delivered by:	REIC	Client	UPS	FedEx	USPS	Other	Date/Time	Date/Time	Date/Time	Date/Time
REIC	91.1 °C					19 corrected Env#1											8/16/18	8/16/18	8/16/18
REIC	91.1 °C																8/16/18	8/16/18	8/16/18
REIC	91.1 °C																8/16/18	8/16/18	8/16/18

ECC-NCR-112313

APPENDIX E

DISPOSAL DOCUMENTATION

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

EXEMPT

2. Page 1 of

1

3. Emergency Response Phone

877-736-7303

4. Waste Tracking Number

08141801

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

~~UNITED STATES POST OFFICE - MOUNT HOPE~~~~415 County Route 25A
Mount Hope, WV 25800~~US MSHA
100 Bluestone Rd.
Mt Hope, WV

(MJS)

Generator's Phone:

800-275-8777

6. Transporter 1 Company Name

ECO-FIRST, Inc. - Lesage, WV

U.S. EPA ID Number

WVR000501304

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

ECO-FIRST, Inc. - Lesage, WV

3 Harvest View Drive

Lesage, WV 25537

WVR000501304

Facility's Phone:

304-736-7303

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1.

NON HAZARDOUS WASTE, HEATING OIL AND WASH WATER

001

TT

728

3

2.

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Michael J. Simmers

Agent for
Generator

Signature

Michael J. Simmers

Month Day Year

8 14 2018

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Millard M. Ryder, ECO-FIRST, Inc.

Millard M. Ryder

Month Day Year

8 14 2018

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Dana L. Jones ECO-FIRST

Signature

Dana L. Jones

Month Day Year

08 15 18

APPENDIX F

PHOTOGRAPHIC DOCUMENTATION



View of the tank 1,000-gallon #2 fuel oil UST location.
Photo taken from the west, facing east, on 8/14/2018.



View of the 1,000-gallon UST fill pipe.
Photo taken on 8/14/2018.



View of the tank 1,000-gallon #2 fuel oil UST location.
Photo taken from the southeast, facing northwest.



View of indoor #2 fuel oil piping to the furnace.
Photo taken from the north, facing south, on 8/14/2018.



View of Eco First accessing the 1,000-gallon UST.
Photo taken from the southeast, facing northwest, on 8/14/2018.



View of Envirocheck crew removing fuel from UST.
Photo taken from the east, facing west, on 8/14/2018.



View of the Envirocheck crew cleaning the inside of the UST.
Photo taken from the northeast, facing southwest, on 8/14/2018.



View of the drill crew working on the east wall of the tank.
Photo taken from the west, facing east, on 8/15/2018.



View of the drill crew working on the north wall of the tank.
Photo taken from the southwest, facing northeast, on 8/15/2018.



View of the drill crew working on the south wall of the tank.
Photo taken from the west, facing east, on 8/15/2018.



View of the drill crew working on the west wall of the tank.
Photo taken from the southwest, facing northeast, on 8/14/2018.



View of East Wall, North Wall, South Wall, and West Wall soil boring locations.
Photo taken from the northwest, facing southeast, on 8/15/2018.



View of the location of Product Piping sample.
Photo taken from the southwest, facing northeast, on 8/15/2018.



View of the Tailored Foam Truck.
Photo taken from the northeast, facing southwest, on 9/4/2018.



View of the foam filling process.
Photo taken from the southwest, facing northeast, on 9/4/2018.



View of the crew filling the 1,000-gallon tank with foam.
Photo taken from the southwest, facing northeast, on 9/4/2018.



View of the UST ports filled with asphalt patch.
Photo taken from the southwest, facing northeast, on 9/4/2018.



View of the product piping lines leading into the building.
Photo taken from the southwest, facing northeast, on 9/20/2018.



View of the product piping being disconnected.
Photo taken from the southeast, facing northwest, on 9/20/2018.



View of the vent pipe, removed.
Photo taken from the southwest, facing northeast, on 9/20/2018.



View of the product piping lines, sealed.
Photo taken from the southwest, facing northeast, on 9/20/2018.



View of the product piping area, reclaimed.
Photo taken from the south, facing northwest, on 9/20/2018.



View of vent pipe, capped.
Taken from the south, facing northeast, on 9/20/2018.

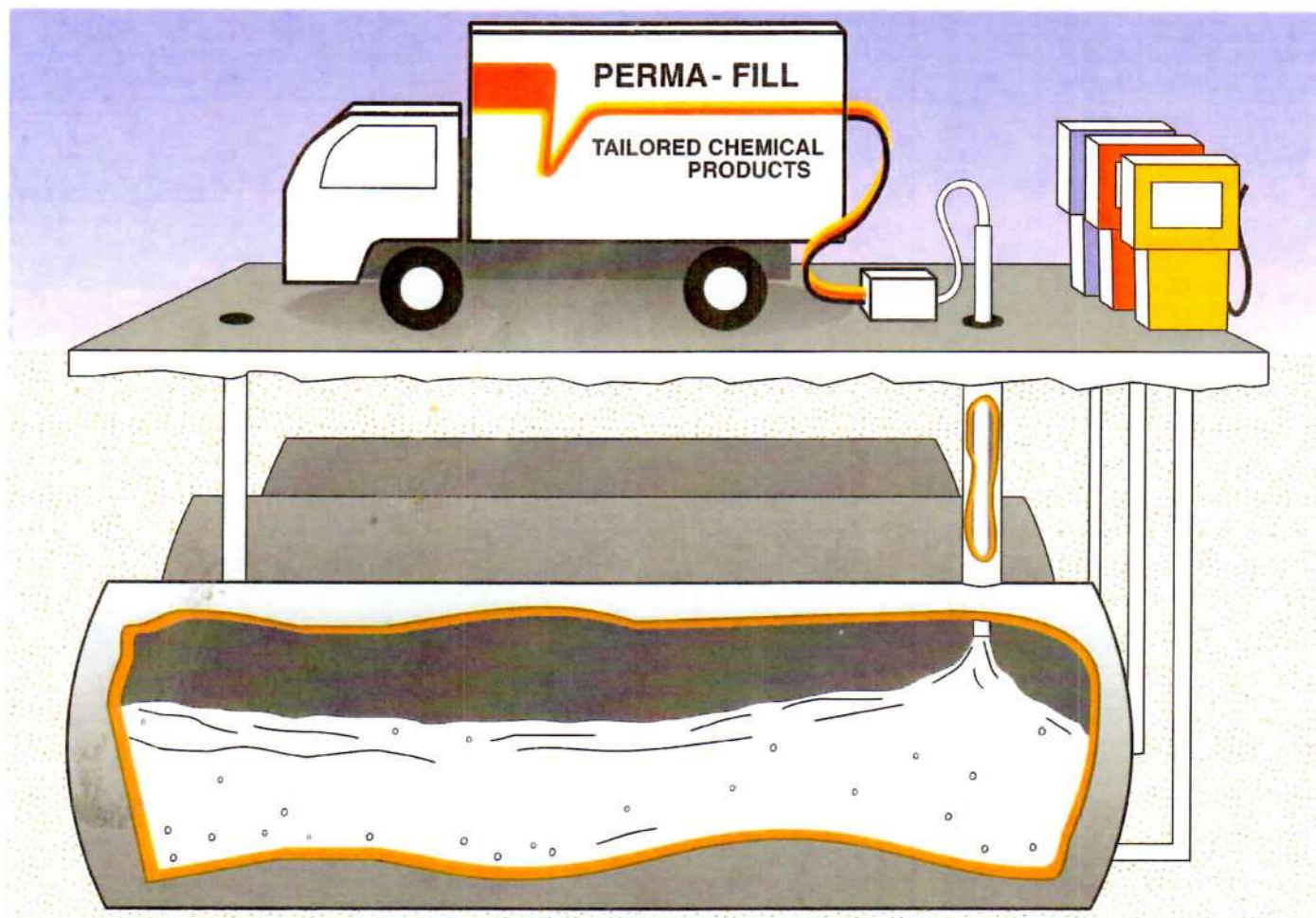


View of vent pipe, reclaimed.
Taken from south, facing northeast, on 9/20/2018.

APPENDIX G

PERMA-FILL FOAM SPECIFICATIONS

There are a number of good reasons to choose the Perma-Fill® Foam System. But since you're busy we'll give you five great ones instead.



1. On-site filling eliminates the cost of digging, removal and disposal of the old tank.
2. Asphalt/grass/concrete are left undisturbed.
3. Complete fill is guaranteed. Fill and vent pipes will be filled with concrete.
4. More economical than slurry or sand fills.
5. Perma-Fill® Foam means easier removal of tank if that should become necessary later.

Perma-Fill Foam Technical Data

Test/property	Reference	Required Performance	Perma-Fill Foam Performance
Fire Safety	DOE (d)(2) HUD 6.2.10	Non-flammable	Classified MSDS "Inert", Fuel Contribution 0, Non-combustible, (Chem-Bac Labs, Charlotte, NC 10/88)
Corrosiveness	DOE (e)(2) HUD 6.2.8	Al, Cu, Steel- No Perforations Galvanized Steel-No pitting Loss of mass not to exceed 0.2g	No Perforations - No Pitting Less than 0.1g
Setting Time	DOE (e)(8) HUD 6.2.2	20-60 seconds	21 seconds
Water Drainage	DOE (e)(10)	No leakage	No leakage

NOTES: All tanks should be cleaned and free of liquid before Perma-Fill foam can be installed. Tank owners should contact all applicable local, state, or federal agencies to insure that all proper tank closure requirements are met prior to the filling. All filling operations will take place in accordance with existing federal, state and local requirements as well as all accepted safety standards. A record showing the location of the tank and date of filling will be mailed to the owner of the tank and all regulatory agencies upon request.

Tailored Chemical Products, Inc.
 PO Drawer 4186 • Hickory, NC 28603
1-800-627-1687
www.perma-fill.com

