



Technical Memorandum

To: Pooja Dalal, Self Enhancement, Inc. Date: May 19, 2026
From: Merideth D'Andrea, RG, Maul Foster & Alongi, Inc. Project No.: M3436.01.001

Re: Drywell Permit Sampling

Maul Foster & Alongi (MFA) has prepared this memorandum on behalf of Self Enhancement, Inc. (SEI) summarizing soil sampling activities that were conducted at 4424/4480 North Mississippi Avenue in Portland, Oregon (the site). The site is currently vacant and undeveloped. SEI is in the process of acquiring the site with the intention of redeveloping into multi-family affordable housing.

Purpose

At the request of the City of Portland Bureau of Environmental Services (BES), soil sampling in the vicinity of proposed drywells (see Attachment A) was required in order to obtain the necessary redevelopment permits. Sampling was conducted in accordance with BES Attachment B: Method to Evaluate the Potential for Stormwater Infiltration at Contaminated Sites to Adversely Impact Groundwater¹. Sampling was also conducted such that the proposed drywells could meet Oregon Department of Environmental Quality (DEQ) Underground Injection Control (UIC) Rule Authorization requirements².

¹ October 2021

² <https://www.oregon.gov/deq/wq/wqpermits/Pages/UIC-Rule-Authorized.aspx>

Background

Based on a recent Phase I Environmental Site Assessment (ESA)³, the earliest known development at the site was in 1901. By 1930 the site was occupied by Simpon Heating Company. From 1938 through 1956 the site was listed as Mississippi Tavern. Based on historical records, the structure was demolished by at least 1976 and the site has been vacant ever since.

The site has an open cleanup file with the Oregon Department of Environmental Quality (DEQ) (ESCI 989) from 1988 that states it was a suspect site due to reports of used paint thinner and paints being dumped on-site. Based on previous use and information in the DEQ ESCI file, a Phase II ESA⁴ was conducted during which surface soils and test pit soils (down to 5 feet below ground surface [bgs]) were sampled for gasoline-range and diesel-range petroleum hydrocarbons, volatile organic compounds (VOCs) and metals. Sampling indicated the presence of two VOCs (bromodichloromethane and bromodichloromethane) and metals including arsenic, barium, cadmium, chromium, lead, and mercury.

Fieldwork

At the request of BES, one soil boring was advanced in the vicinity of the proposed drywell locations (see Figure). On May 14, 2026, the boring was advanced to approximately 10 feet below the bottom of the deepest proposed drywell, after regrading, which will be 28.3 feet bgs. Considering that the new surface grade is proposed to be approximately 6.8 feet below existing grade, the boring was advanced to a maximum depth of 45 feet bgs. Continuous soil cores were advanced and soils logged in general accordance with American Society of Testing and Materials (ASTM) D2488 (Standard Practice for Description and Identification of Soils – Visual Manual Procedure) (see Boring Log, Attachment B). After completion, the boring was backfilled with bentonite chips and surface conditions restored.

Soil samples were collected at depths corresponding to the perforated sections of the drywell, as well as at depth intervals below the bottom of the drywell. The top of the perforated section of the drywell will start at approximately 15 feet below existing grade and will be 20 feet in length. Based on current grade and future drywell construction, the following soil samples were collected from the boring:

- One composite soil sample each from 15-20, 20-25, 25-30, and 30-35 feet bgs.
- One composite soil sample from 0–5 feet below the drywell bottom (35-40 feet bgs)
- One composite soil sample from 5–10 feet below the drywell bottom (40-45 feet bgs)

Each of the soil samples were submitted for the following analyses:

- Metals: cadmium, chromium, lead by EPA Method 6020B
- VOCs by EPA Method 8260D

³ Phase I Environmental Site Assessment, Cascade Environmental, Metro and Self Enhancement, Inc. (ECSI #989), 4424-4480 North Mississippi Avenue, Portland, Oregon 97217, May 13, 2026.

⁴ Phase II Environmental Site Assessment, Cascade Environmental, Metro and Self Enhancement, Inc. (ECSI #989), 4424-4480 North Mississippi Avenue, Portland, Oregon 97217, May 15, 2026.

Results and Screening

At the request of BES, the sampling results were screened against the City of Portland BES, Attachment B: Method to Evaluate the Potential for Stormwater Infiltration at Contaminated Sites to Adversely Impact Groundwater, Table 4: Screening Levels for Contaminants in Soil at Infiltration Facilities⁵. Additionally, soil results were screened against DEQ Background Metals for the Portland Basin⁶ and the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limits from Table 1 of U.S. 40 Code of Federal Regulations part 261.24.

Tabulated and screened data is presented in the attached Table. The laboratory report is provided as Attachment C. The data validation memorandum is provided as Attachment D. All data is considered acceptable for their intended use, with the appropriate data qualifiers assigned.

Of the three metals analyzed, cadmium was not detected in any of the soil samples. Chromium detections ranged from 13.7 to 20.7 milligrams per kilogram (mg/kg), and lead detections ranged from 3.55 to 5.34 mg/kg. All detected metals concentrations were well below the BES Infiltration Screening Level Values (SLVs) as well as DEQ background and TCLP Rule of 20 values.

No VOCs were detected in any of the soil samples above method detection limits.

Based on these sampling results and initial screening, additional TCLP follow-up analyses were not warranted and conditions at the site meet BES requirements regarding infiltration of stormwater at sites with known or suspected contamination.

Attachments

Limitations

Figure

Table

A—Redevelopment Plan

B—Boring Log

C—Analytical Laboratory Report

D—Data Validation Memorandum

⁵ October 2021.

⁶ Development of Oregon Background Metals Concentrations in Soil. Oregon Department of Environmental Quality, Land Quality Division Cleanup Program, Portland, Oregon. March 2013.

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figure



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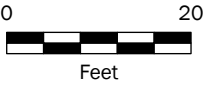


Figure Sample Location

Self Enhancement, Inc.
4424/4480 North Mississippi Avenue
Portland, Oregon

Legend

- Boring
- Property Boundary
- Tax Lot



Data Sources
Aerial photograph obtained from Google; tax lot data
obtained from Oregon Metro.

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Table



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Table 1
Summary of Soil Analytical Results
Drywell Permitting
4424/4480 North Mississippi Avenue, Portland, Oregon

Sample Location:	TCLP Rule of 20 ^(a)	City of Portland BES Infiltration SLV ⁽¹⁾	DEQ Background Metals, Portland Basin ⁽²⁾	B1					
Sample Name:				B1-COMP-SO-15-20	B1-COMP-SO-20-25	B1-COMP-SO-25-30	B1-COMP-SO-30-35	B1-COMP-SO-35-40	B1-COMP-SO-40-45
Sample Date:				05/14/2026	05/14/2026	05/14/2026	05/14/2026	05/14/2026	05/14/2026
Sample Depth (ft bgs):				15-20	20-25	25-30	30-35	35-40	40-45
Total Metals (mg/kg)									
Cadmium	20	16.5	0.63	0.239 U	0.237 U	0.229 U	0.266 U	0.248 U	0.224 U
Chromium	100	76	76	13.7	12.0	16.1	20.7	19.9	13.9
Lead	100	400	79	5.09	4.68	4.31	5.34	3.55	4.07
VOCs (mg/kg)									
1,1,1,2-Tetrachloroethane	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,1,1-Trichloroethane	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,1,2,2-Tetrachloroethane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,1,2-Trichloroethane	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,1-Dichloroethane	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,1-Dichloroethene	14	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,1-Dichloropropene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,2,3-Trichlorobenzene	NV	NV	NV	0.169 U	0.168 U	0.158 U	0.198 U	0.164 U	0.154 U
1,2,3-Trichloropropane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,2,4-Trichlorobenzene	NV	NV	NV	0.169 U	0.168 U	0.158 U	0.198 U	0.164 U	0.154 U
1,2,4-Trimethylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,2-Dibromo-3-chloropropane	NV	NV	NV	0.169 U	0.168 U	0.158 U	0.198 U	0.164 U	0.154 U
1,2-Dibromoethane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,2-Dichlorobenzene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,2-Dichloroethane	10	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,2-Dichloropropane	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,3,5-Trimethylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,3-Dichlorobenzene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
1,3-Dichloropropane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
1,4-Dichlorobenzene	150	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
2,2-Dichloropropane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
2-Butanone	4,000	NV	NV	0.338 U	0.337 U	0.316 U	0.397 U	0.328 U	0.307 U
2-Chlorotoluene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
2-Hexanone	NV	NV	NV	0.338 U	0.337 U	0.316 U	0.397 U	0.328 U	0.307 U
4-Chlorotoluene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
4-Isopropyltoluene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
4-Methyl-2-pentanone	NV	NV	NV	0.338 U	0.337 U	0.316 U	0.397 U	0.328 U	0.307 U
Acetone	NV	NV	NV	0.676 U	0.673 U	0.633 U	0.793 U	0.657 U	0.614 U
Acrylonitrile	NV	NV	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
Benzene	10	0.023	NV	0.00676 U	0.00673 U	0.00633 U	0.00793 U	0.00657 U	0.00614 U
Bromobenzene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
Bromodichloromethane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Bromoform	NV	NV	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
Bromomethane	NV	NV	NV	0.676 U	0.673 U	0.633 U	0.793 U	0.657 U	0.614 U
Carbon disulfide	NV	NV	NV	0.338 U	0.337 U	0.316 U	0.397 U	0.328 U	0.307 U
Carbon tetrachloride	10	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Chlorobenzene	2,000	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U

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Sample Location:	TCLP Rule of 20 ^(a)	City of Portland BES Infiltration SLV ⁽¹⁾	DEQ Background Metals, Portland Basin ⁽²⁾	B1					
Sample Name:				B1-COMP-SO-15-20	B1-COMP-SO-20-25	B1-COMP-SO-25-30	B1-COMP-SO-30-35	B1-COMP-SO-35-40	B1-COMP-SO-40-45
Sample Date:				05/14/2026	05/14/2026	05/14/2026	05/14/2026	05/14/2026	05/14/2026
Sample Depth (ft bgs):				15-20	20-25	25-30	30-35	35-40	40-45
Chlorobromomethane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Chloroethane	NV	NV	NV	0.338 U	0.337 U	0.316 U	0.397 U	0.328 U	0.307 U
Chloroform	120	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Chloromethane	NV	NV	NV	0.169 U	0.168 U	0.158 U	0.198 U	0.164 U	0.154 U
cis-1,2-Dichloroethene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
cis-1,3-Dichloropropene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Dibromochloromethane	NV	NV	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
Dibromomethane	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Dichlorodifluoromethane (Freon 12)	NV	NV	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
Ethylbenzene	NV	0.22	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
Hexachlorobutadiene	10	NV	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
Isopropylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
m,p-Xylene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Methyl tert-butyl ether	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Methylene chloride	NV	NV	NV	0.676 U	0.673 U	0.633 U	0.793 U	0.657 U	0.614 U
Naphthalene	NV	0.077	NV	0.0676 U	0.0673 U	0.0633 U	0.0793 U	0.0657 U	0.0614 U
n-Butylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
n-Propylbenzene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
o-Xylene	NV	NV	NV	0.0338 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
sec-Butylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Styrene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
tert-Butylbenzene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Tetrachloroethene (PCE)	14	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
Toluene	NV	84	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
trans-1,2-Dichloroethene	NV	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
trans-1,3-Dichloropropene	NV	NV	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U
Trichloroethene (TCE)	10	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
Trichlorofluoromethane (Freon 11)	NV	NV	NV	0.169 U	0.168 U	0.158 U	0.198 U	0.164 U	0.154 U
Vinyl chloride	4	NV	NV	0.0169 U	0.0168 U	0.0158 U	0.0198 U	0.0164 U	0.0154 U
Xylenes (total) ^(b)	NV	23	NV	0.0338 U	0.0337 U	0.0316 U	0.0397 U	0.0328 U	0.0307 U

Table 1
Summary of Soil Analytical Results
Drywell Permitting
4424/4480 North Mississippi Avenue, Portland, Oregon

Notes Detected results were compared with screening criteria. There were no exceedances. BES = Bureau of Environmental Services. COP = City of Portland. DEQ = Oregon Department of Environmental Quality. ft bgs = feet below ground surface. mg/kg = milligrams per kilogram. NV = no value. SLV = screening level value. TCLP = toxicity characteristic leaching procedure. U = result is non-detect at the method detection limit or method reporting limit. VOC = volatile organic compound. ^(a)Toxicity characteristic regulatory limit from Table 1 of U.S. 40 Code of Federal Regulations part 261.24. The regulatory level is multiplied by 20 in order to screen against total constituents. ^(b)Total xylenes is the sum of m,p-xylene and o-xylene. When both results are non-detect, the highest detection limit is shown. References ⁽¹⁾COP. 2021. <i>Table 4 : Screening Levels for Contaminants in Soil at Infiltration Facilities</i>. Attachment B. Method to Evaluate the Potential for Stormwater Infiltration at Contaminated Sites to Adversely Impact Groundwater. City of Portland, Bureau of Environmental Services. October. ⁽²⁾DEQ. 2013. <i>Development of Oregon Background Metals Concentrations in Soil</i>. Oregon Department of Environmental Quality, Land Quality Division Cleanup Program, Portland, Oregon. March.

Attachment A

Redevelopment Plan



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PREMISE-ISOLATION BACKFLOW PROTECTION REQUIRED BY WATER QUALITY BACKFLOW (WQBF) REVIEW (503-823-7480)

WATER BUREAU BACKFLOW ASSEMBLY INSTALLATION REQUIREMENTS:

WWW.PORTLAND.GOV/WATER/BACKFLOW-PREVENTION/BACKFLOW-ASSEMBLY-INSTALLATION-REQUIREMENTS

TITLE 21.12.320, 28.08.020 AND/OR OAR 333-061-0070, 333-061-0071

PLAN APPROVED FOR CONSTRUCTION: ERRORS AND OMISSIONS EXCEPTED.

DOMESTIC WATER SERVICE:

BACKFLOW PREVENTION ASSEMBLIES MUST CONFORM TO EPA LEAD FREE REQUIREMENTS, INCLUDING OPSC SECTION 604 POTABLE MATERIALS & PIPING.

DRAWABLE CHECK VALVE ASSEMBLY (DCVA) REQUIRED. INSTALLATION REQUIRED ON ALL CITY PROPERTY AT THE PROPERTY LINE, ON THE CENTERLINE OF THE CITY WATER SERVICE CONNECTION, NO CONNECTIONS PRIOR TO ASSEMBLY.

INSTALLATION OF A PREMISE-ISOLATION BACKFLOW ASSEMBLY WILL CREATE A CLOSED SYSTEM AND MAY RESULT IN PROBLEMS ASSOCIATED WITH THERMAL EXPANSION. INSTALLER RESPONSIBLE FOR MAKING PROVISIONS FOR THERMAL EXPANSION.

SEPARATE BES SEWER CONNECTION UC PERMIT REQUIRED
WORK IN THE PUBLIC RIGHT OF WAY (PUBLIC EASEMENT)
EMAIL URUCPERMITS@PORTLANDOREGON.GOV
WEB WWW.PORTLAND.GOV & SEARCH "UC"
PHONE 503-823-1026

BES PRIVATE STORMWATER FACILITY INSPECTION REQUIRED
NOTE: BES APPROVAL REQUIRED PRIOR TO OCCUPANCY
TO SCHEDULE, DIAL IVR AT 503-823-7000 OR ONLINE AT
WWW.DEVHUB@PORTLANDOREGON.GOV
REQUEST #487 BES ON-SITE STORMWATER FACILITY EVAL
NEED ASSISTANCE? PHONE 503-823-7761 OPTION 2

DRYWELL
REQUIRED INSPECTIONS PRIOR TO COVER
#1: LOCATION, SIZE, DEPTH, ROCK

PP&D PLUMBING INSPECTOR APPROVAL REQUIRED FOR DOWNSPOUTS
AND PRIVATE STORM SEWER PIPING OUTSIDE OF STORM FACILITIES

DEQ RULE AUTHORIZATION REQUIRED FOR PRIVATE STORM FACILITY
BES UIC RULE AUTHORIZATION BY PERMIT
CONTACT: CITY OF PORTLAND UIC PERMIT PROGRAM
BESUIC@PORTLANDOREGON.GOV

PREMISES-ISOLATION BACKFLOW PROTECTION REQUIRED BY WATER QUALITY BACKFLOW (WQBF) REVIEW (503-823-7480)
WATER BUREAU BACKFLOW ASSEMBLY INSTALLATION REQUIREMENTS:
WWW.PORTLAND.GOV/WATER/BACKFLOW-PREVENTION/BACKFLOW-ASSEMBLY-INSTALLATION-REQUIREMENTS
TITLE 21.12.320, 28.08.020 AND/OR OAR 333-061-0070, 333-061-0071
PLAN APPROVED FOR CONSTRUCTION: ERRORS AND OMISSIONS EXCEPTED.
FIRE SPRINKLER WATER SERVICE:
IT IS UNLAWFUL TO USE A DEDICATED FIRE SPRINKLER WATER SUPPLY FOR PURPOSES OTHER THAN FIRE SUPPRESSION AND CODE REQUIRED SYSTEM TESTING. POTABLE PIPE & FITTINGS REQUIRED FROM CURB GATE THROUGH OGD, DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) REQUIRED, MUST BE INSTALLED PER THE PROPERTY AT THE PROPERTY LINE ON THE CENTER LINE OF CITY WATER SERVICE. VAULT WILL BE OFFSET TO ONE SIDE OF THE SERVICE. VAULT SIZE TO MEET APPLICABLE CODES FOR DEPTH OF SERVICE COVER, LADDER, & CLEARANCES. NEW WATER SERVICES WILL BE INSTALLED AT A DEPTH OF 3-4 FT. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO MAKE THE PROPERTY SIDE CONNECTION, METERING; THE NEW DEDICATED FIRELINE BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE EQUIPPED WITH A NEPTUNE T-10 METER AND A TOUCHPAD IS TO BE INSTALLED PER THE ABOVE LINK PAGE 6.

1. WATER BUREAU TO PERFORM ALL WATER WORK IN THE PUBLIC RIGHT-OF-WAY UP TO THE POINT OF CONNECTION. SERVICES ARE INSTALLED AT A DEPTH OF 3'-4" WITH A SHORT SUB FOR PRIVATE CONNECTION. CONTRACTOR IS RESPONSIBLE TO MAKE PRIVATE CONNECTION AND BACKFILL TO PROPERTY. WATER BUREAU WILL BACKFILL RIGHT-OF-WAY EXCAVATION.
2. PERMITTEE/CONTRACTOR IS RESPONSIBLE FOR MARKING LOCATION AND FINISHED GRADE AND CURB ALIGNMENT. MARKED LOCATIONS MUST MATCH THE ISSUED BUILDING AND APPROVED PUBLIC WORKS PLANS PRIOR TO INSTALLATION. CHANGES OR MODIFICATIONS REQUIRE A REVISION TO THE PERMIT. THE APPLICANT IS RESPONSIBLE FOR THE ENTIRE COST OF RELOCATING ANY INSTALLATION MARKED IN ERROR. IF SITE CONDITIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON APPROVED PLANS, APPLICANT MAY BE RESPONSIBLE FOR ADDITIONAL FEES.

TO SCHEDULE INSTALLATION:

*NOTE THAT BUILDING PERMIT MUST BE ISSUED AND ANY RELATED 90% PUBLIC WORKS PLANS APPROVED BEFORE SCHEDULING SERVICE INSTALLATION.

FOR 2" AND SMALLER SERVICES PLEASE WAIT 2 BUSINESS DAYS AFTER PAYMENT BEFORE CONTACTING
WBISTATEDSHED@PORTLANDOREGON.GOV OR 503-823-1526. NORMAL INSTALLATION TIME IS 3 WEEKS.

FOR 3" AND LARGER SERVICES AND HYDRANTS CONTACT WATERSERVICES@PORTLANDOREGON.GOV OR 503-823-7368 AT LEAST 4-7 WEEKS IN ADVANCE OF DESIRED INSTALLATION DATE TO ALLOW TIME FOR SECURING A PBOT STREET OPENING PERMIT (SOP) AND SCHEDULING INSTALLATION.

1. ALL WORK IN THE PUBLIC ROW UNDER SEPARATE PERMIT.
2. WHERE EXISTING STREET TREE CONFLICTS WITH PROPOSED WORK, REMOVAL WILL BE UNDER SEPARATE PUBLIC WORKS PERMIT.
3. ALL DOMESTIC WATER AND FIRE PROTECTION WORK IN THE PUBLIC RIGHT OF WAY BY PORTLAND WATER BUREAU AT OWNER'S EXPENSE. CONTRACTOR TO COORDINATE WORK WITH PORTLAND WATER BUREAU.
4. INSTALL FOUNDATION DRAIN PER DETAIL 6/C3.00 AND CONNECT TO STORM SYSTEM WITH A CLEANCHECK BACKWATER VALVE.
5. ALL BUILDING FIXTURES BELOW THE RIM OF THE UPSTREAM MANHOLE TO BE BACKFLOW PROTECTED.

1. DRYWELL DW-1: 26.58" DEEP DRYWELL WITH 20" PERF SECTION PER DETAIL 1/C3.01
RIM=198.58
IE=193.00
2. DRYWELL DW-2: 28.33" DEEP DRYWELL WITH 20" PERF SECTION PER DETAIL 1/C3.01
RIM=198.58
IE=191.75
3. TRAPPED CATCH BASIN WITH 24" SUMP PER DETAIL 3/C3.01
RIM=198.50
IE (4" IN, W)=196.33
IE (6" OUT, E)=195.83
4. CLEANOUT TO GRADE PER DETAIL 4/C3.00
5. DOWNSPOUT CONNECTION FROM BUILDING
6. REMOVE EXISTING PLUGGED CATCH BASIN, UNDER SEPARATE PUBLIC WORKS PERMIT
7. TRAPPED CATCH BASIN WITH 24" SUMP PER DETAIL 3/C3.01
RIM=198.50
IE (6" IN, N)=192.20
IE (6" OUT, W)=191.70
8. TRENCH DRAIN, SEE LANDSCAPE PLANS
RIM=158.67
9. CONNECT TO LANDSCAPE DRAIN, SEE LANDSCAPE PLANS
IE=193.92
10. 4" PERF PIPE AT RETAINING WALL, SEE STRUCTURAL
11. CONNECT PERF PIPE TO SOLID PIPE SYSTEM WITH CLEAN/CHECK BACKWATER VALVE

30. INSTALL 4" FIRE SERVICE, BY PORTLAND WATER BUREAU, PER APPROVED PWB DE #26-0024, VERIFY SIZE WITH FIRE PROTECTION PLANS PRIOR TO SCHEDULING INSTALLATION. SEE PWB GENERAL NOTES FOR INSTALLATION INFO

31. INSTALL 2" DOMESTIC WATER METER, BY PORTLAND WATER BUREAU, PER APPROVED PWB DE #26-0024, SEE PWB GENERAL NOTES FOR INSTALLATION INFO

32. 4" FIRE PROTECTION PREMISES ISOLATION (PI) DCDA AND 2" DOMESTIC WATER DCVA TO BE INSTALLED IN BELOW GRADE VAULT PER DETAIL 2/C3.01

33. FIRE PROTECTION CONNECTION TO BUILDING

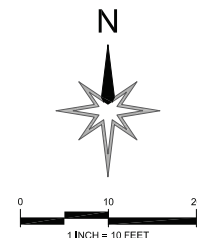
34. DOMESTIC WATER CONNECTION TO BUILDING

35. FIRE DEPARTMENT CONNECTION (FDC)

36. PROTECT EXISTING IRRIGATION METER

50. NEW 6" COMBINED SEWER CONNECTION TO EX. 14" VSP BES CON
- MAIN #AAQ438-AAQ432, UNDER SEPARATE UC PERMIT
51. 4" SANITARY CONNECTION FROM BUILDING
52. PRIMED AND VENTED TRAPPED SANITARY DRAIN PER PLUMBING
53. SANITARY CONNECTION TO BUILDING

60. RELOCATE GUY WIRE ANCHOR
61. REPLACE GUY WIRE ANCHOR WITH NEW GUY WIRE ON QUEENSPOT, TO MEET MIN. REQUIRED PWB VERTICAL CLEARANCE OF 8 FEET. REFERENCE APPROVED PWB DESIGN EXCEPTION NO. 26-0024 AND PUBLIC WORKS PERMIT #TH1508



UTILITY PLAN



EXPIRES 6-30-2026



VEGA
CIVIL ENGINEERING LLC
503.662.1901 | WWW.VEGACIVIL.COM

REVISION NO.	DATE
1 PERMIT COMMENTS	2/20/26
2 VE & REVISIONS	3/11/26
3 PERMIT COMMENTS	3/27/26
4 ADD 01	4/1/26

SEI MISSISSIPPI
APARTMENTS

4480 N Mississippi Avenue
Portland OR 97217

ISSUANCE BID SET
DATE 03/11/26
SCALE As indicated
PROJECT NUMBER 202504.00
DRAWN BY B HEALY
DRAWING TITLE UTILITY PLAN

SHEET NUMBER

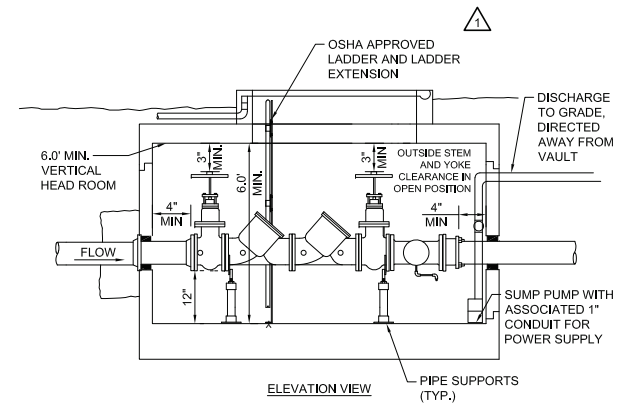
C2.00

[illegible]

SEI MISSISSIPPI APARTMENTS

4480 N Mississippi Avenue
Portland, OR 97217

C3.01



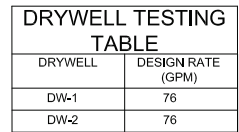
NTS



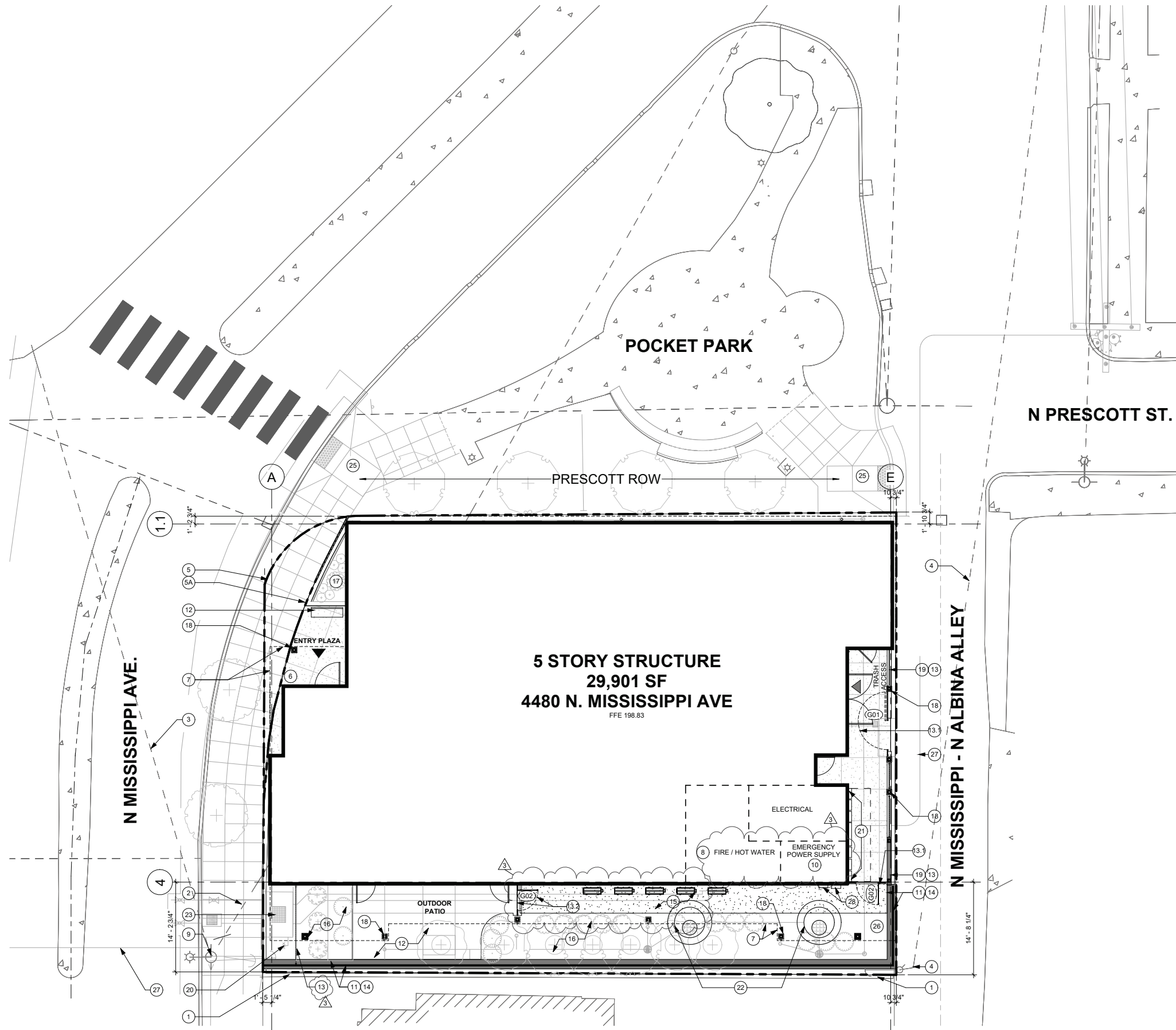
1. BOX FABRICATED FROM 10 GA. MATERIAL

NTS

1. DRYWELL(S) SHALL HAVE THE CAPACITY TO DISPOSE OF STORMWATER AT THE RATE LISTED IN TABLE, TO ACCOUNT FOR SEDIMENT LOADING OVER TIME, THE RATE LISTED IN THE TABLE IS TWO TIMES THE PEAK FLOW RATE.
2. NOTIFY CIVIL AND GEOTECHNICAL ENGINEERS 7 DAYS PRIOR TO TESTING AND PROVIDE WRITTEN PLAN FOR TESTING INCLUDING WATER SOURCE.
3. CONTRACTOR SHALL CONTACT CITY OF PORTLAND WATER BUREAU OR APPLICABLE WATER DISTRICT TO ARRANGE FOR DRYWELL TEST WATER SUPPLY. CONTRACTOR SHALL BEAR RESPONSIBILITY FOR SECURING ALL NECESSARY PERMITS, AUTHORIZATION AND ANY FEES. IF NO WATER SUPPLY AVAILABLE, WATER TRUCK(S) MUST BE USED.
8. CONTRACTOR SHALL ARRANGE FOR THE PROVISION OF ALL DRYWELL TESTING EQUIPMENT, INCLUDING BUT NOT LIMITED TO FLOW METER READING IN GPM, PIPING, AND TRAFFIC CONTROL.
9. CLEAN WATER SHALL BE PROVIDED TO TEST DRYWELLS, AS APPROVED. INTRODUCTION OF SEDIMENT MAY RESULT IN FAILURE OF THE DRYWELL CAPACITY TEST.
10. SUPPLY WATER AT RATE LISTED IN TABLE AND RECORD HEIGHT OF WATER FOR 30 MINUTES AT 5 MINUTE INTERVALS. IF THE DRYWELL FILLS TO TOP OF PERFORATED PIPES, SHUT OFF WATER AND RECORD HEIGHT OF WATER EVERY 5 MINUTES UNTIL WATER IS WITHIN 12 INCHES OF BOTTOM. PROVIDE TESTING INFORMATION TO ENGINEER TO DETERMINE NEXT STEPS.
11. SHOULD DRYWELL(S) FAIL TO TEST AT THE MINIMUM DESIGN RATE, ADDITIONAL DRYWELLS MUST BE CONSTRUCTED IN ORDER TO ACHIEVE THE REQUIRED MINIMUM DISPOSAL RATE. ENGINEER MUST GET APPROVAL OF NEW DRYWELL LOCATIONS PRIOR TO INSTALLATION.



NTS



1 ARCHITECTURAL SITE PLAN
SCALE: 1/8" = 1'-0"

SHEET GENERAL NOTES

1. PROPERTY LINE BASED ON SURVEY BY AKS ENGINEERING & FORESTRY.
2. SEE CIVIL DRAWINGS FOR UTILITY EASEMENT, SITE UTILITIES, GRADING, EROSION CONTROL, BUILDING PAD ELEVATIONS AND RELATED DETAILS.
3. SEE LANDSCAPE DRAWINGS FOR HARDSCAPE DIMENSIONS, PLANTING AND IRRIGATION INFORMATION, AND TREE REMOVAL AND PROTECTION.
4. SEE CIVIL AND LANDSCAPE DRAWINGS FOR ACCESSIBILITY SITE RELATED DETAILS.
5. SEE ELECTRICAL FOR SITE LIGHTING AND SERVICE DISTRIBUTION.

KEYNOTES

- 1 (E) CONCRETE RETAINING ENTIRELY ON NEIGHBORING PROPERTY TO REMAIN
- 2 (E) ELECTRICAL LINE ABOVE TO BE REMOVED BY PACIFIC POWER
- 3 (E) OVERHEAD POWER LINES. PACIFIC POWER WILL BE RELOCATING OVERHEAD LINES BEFORE CONSTRUCTION
- 4 (E) TELEPHONE / INTERNET LINE
- 5 PROPERTY LINE PRE-DEDICATION
- 5A DEDICATION
- 6 LOCATION OF KNOX BOX AT 6' AFF MAX. CONFIRM W/ AHJ
- 7 LINE OF BUILDING ABOVE
- 8 LOCATION OF FIRE RISER, COORDINATE W/ PLUMBING
- 9 (E) UTILITY POLE TO REMAIN PER PPM
- 10 LOCATION OF EMERGENCY POWER SUPPLY, COORDINATE W/ ELECT
- 11 PERMANENT SHORING WALL, COORDINATE WITH STRUCT / GEOTECH
- 12 SITE FURNISHINGS, COORDINATE W/ LANDSCAPE
- 13 PRE-FINISHED ALUMINUM METAL FENCE
- 13.1 PRE-FINISHED ALUMINUM METAL GATE TO MATCH FENCE.
- 13.2 PRE-FINISHED ALUMINUM GATE/FENCE WITH OPAQUE SCREEN TO SCREEN MECH EQUIPMENT. SEE A1.50 AND SIGHT LINE DIAGRAM ON 2/G0.03
- 14 WOOD FENCE ON TOP OF SHORING WALL, COORDINATE W/ LANDSCAPE
- 15 COMPACTED GRAVEL, COORDINATE W/ LANDSCAPE
- 16 LANDSCAPE AREA, COORDINATE W/ LANDSCAPE
- 17 CONCRETE LANDSCAPE PLANTER, COORDINATE W/ LANDSCAPE
- 18 2 HR RATED COLUMN WRAP. SEE DETAIL 4/8.00 AND 4/8.02
- 19 CONCRETE RETAINING WALL, COORDINATE W/ STRUCT
- 20 FIRE DEPARTMENT CONNECTION, COORDINATE W/ CIVIL
- 21 ELECTRICAL EQUIPMENT, COORDINATE W/ ELECT
- 22 STORMWATER DRYWELL, COORDINATE W/ CIVIL
- 23 FIRE / WATER VAULT, COORDINATE W/ CIVIL
- 25 ROW IMPROVEMENTS, TYP. COORDINATE W/ PUBLIC IMPROVEMENT PLANS
- 26 IRRIGATION CONNECTION, COORDINATE W/ LANDSCAPE AND PLUMBING
- 27 NEW UNDERGROUND SECONDARY FEEDER, COORDINATE W/ ELECT
- 28 SOLAR SYSTEM MAIN DISCONNECT, COORDINATE WITH ELECT

LEGEND

- | | |
|-----|------------------------|
| --- | PROPERTY LINE |
| ▲ | MAIN BUILDING ENTRY |
| ■ | LANDSCAPED AREA |
| □ | SCORED CONCRETE PAVING |

REVISION	DATE
1 PERMIT COMMENTS	2/20/26
2 VE & REVISIONS	3/11/26
3 PERMIT COMMENTS	3/27/26
4 ADD 01	4/1/26

SEI MISSISSIPPI APARTMENTS

4480 N Mississippi Avenue
Portland, OR 97217

ISSUANCE
BID SET
DATE
03/11/26
SCALE
As indicated
PROJECT NUMBER
202504.00
DRAWN BY
SS
DRAWING TITLE
ARCHITECTURAL
SITE PLAN

SHEET NUMBER

A1.00

Attachment B

Boring Log



MAUL
FOSTER
ALONGI



Project Number: M3436.01.001
Project Name: North Mississippi - Drywell Permitting
Project Location: Portland, OR
Date: 05/14/2026
Logged By: S. Chapman

Drilling Firm: Anderson Environmental Contracting, LLC
Drill Rig: Geoprobe 7822DT
Bore Hole Diameter: 2.25 inches
Total Boring Depth: 45 feet

Depth (feet)	Soil Description and Remarks	Graphic Log	Samples		
			% Recovery	Sample ID	PID (ppm)
1	0.0 feet to 9.7 feet: SILT (ML); brown; 100% fines, nonplastic; soft; trace rootlets in upper 0.3 feet; trace gravel to 0.5 feet, fine, subangular; dry. @ 2.0 feet: Trace gravel to 2.2 feet. @ 2.4 feet: Black mottling to 2.9 feet. @ 2.5 feet: Becomes low plasticity. @ 5.0 feet: Becomes light brown; low plasticity; soft to firm.		83		0
2					0
3					0
4					0
5			100		0
6	9.7 feet to 10.0 feet: SAND WITH SILT (SP-SM); brown to light brown; 15% fines; 85% sand, fine grained; loose to medium dense; dry. 10.0 feet to 11.0 feet: SILT (ML); brown; 90% fines, low plasticity; 10% sand, fine grained; soft, dry. 11.0 feet to 11.8 feet: SILTY SAND (SM); brown to light brown; 40% fines; 60% sand, fine grained; loose to medium dense; dry. 11.8 feet to 25.0 feet: SAND WITH SILT (SP-SM); light brown to grayish brown; 10% fines; 90% sand, fine grained; loose; dry.		84	B1-Comp-So-15-20	0
11					0
12					0
13					0
14					0
15	@ 20.0 feet: Becomes medium dense; mica present.		60	B1-Comp-So-20-25	0
16					0
17					0
18					0
19					0
20			60		0
21					0
22					0
23					0
24					0



Project Number: M3436.01.001
 Project Name: North Mississippi - Drywell Permitting
 Project Location: Portland, OR
 Date: 05/14/2026
 Logged By: S. Chapman

Drilling Firm: Anderson Environmental Contracting, LLC
 Drill Rig: Geoprobe 7822DT
 Bore Hole Diameter: 2.25 inches
 Total Boring Depth: 45 feet

Depth (feet)	Soil Description and Remarks	Graphic Log	Samples		
			% Recovery	Sample ID	PID (ppm)
26	25.0 feet to 45.0 feet: SAND (SP); grayish brown to brownish gray; 100% sand, fine to medium grained, subangular to subrounded; loose to medium dense; dry. @ 30.0 feet: Orange mottling. @ 31.4 feet: Becomes wet from 31.4 to 32.9 feet; no odor; no sheen. @ 36.0 feet: Becomes wet from 36.0 to 37.0 feet; no odor; no sheen. @ 43.0 feet: Becomes dense.		74	B1-Comp-So-25-30	0
27					0
28					0
29					0
30					0
31			80	B1-Comp-So-30-35	0
32					0
33					0
34					0
35					0
36			80	B1-Comp-So-35-40	0
37					0
38					0
39					0
40					0
41			70	B1-Comp-So-40-45	0
42					0
43					0
44					0

Notes

1) Depths are relative to feet below ground surface. 2) bgs = below ground surface.
 3) ID = identification. 4) PID = photoionization detector. 5) ppm = part per million.

Borehole Completion Details

0 to 45.0 feet bgs: 2.25-inch borehole.

Borehole Abandonment Details

0 to 45.0 feet: Bentonite chips hydrated with potable water.

Attachment C

Analytical Laboratory Report



MAUL
FOSTER
ALONGI



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Friday, May 15, 2026

Merideth D'Andrea
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A6E1273 - North Mississippi - Dry Well Permitting - M3436.01.001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A6E1273, which was received by the laboratory on 5/14/2026 at 2:15:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information	
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>	
(See Cooler Receipt Form for details)	
Default Cooler	<u>5.4 degC</u>

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nerenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-COMP-SO-15-20	A6E1273-01	Soil	05/14/26 10:00	05/14/26 14:15
B1-COMP-SO-20-25	A6E1273-02	Soil	05/14/26 10:35	05/14/26 14:15
B1-COMP-SO-25-30	A6E1273-03	Soil	05/14/26 11:00	05/14/26 14:15
B1-COMP-SO-30-35	A6E1273-04	Soil	05/14/26 11:45	05/14/26 14:15
B1-COMP-SO-35-40	A6E1273-05	Soil	05/14/26 12:15	05/14/26 14:15
B1-COMP-SO-40-45	A6E1273-06	Soil	05/14/26 12:55	05/14/26 14:15
Trip Blank	A6E1273-07	Water	05/14/26 00:00	05/14/26 14:15

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-15-20 (A6E1273-01)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	676	1350	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Acrylonitrile	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Benzene	ND	6.76	13.5	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Bromobenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Bromochloromethane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Bromodichloromethane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Bromoform	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Bromomethane	ND	676	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
2-Butanone (MEK)	ND	338	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
n-Butylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
sec-Butylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
tert-Butylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Carbon disulfide	ND	338	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Carbon tetrachloride	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Chlorobenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Chloroethane	ND	338	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Chloroform	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Chloromethane	ND	169	338	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
2-Chlorotoluene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
4-Chlorotoluene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Dibromochloromethane	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	169	338	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Dibromomethane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2-Dichlorobenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,3-Dichlorobenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,4-Dichlorobenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Dichlorodifluoromethane	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1-Dichloroethane	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1-Dichloroethene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
cis-1,2-Dichloroethene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
trans-1,2-Dichloroethene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-15-20 (A6E1273-01)				Matrix: Soil		Batch: 26E0458		
1,2-Dichloropropane	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,3-Dichloropropane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
2,2-Dichloropropane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1-Dichloropropene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
cis-1,3-Dichloropropene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
trans-1,3-Dichloropropene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Ethylbenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Hexachlorobutadiene	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
2-Hexanone	ND	338	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Isopropylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
4-Isopropyltoluene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Methylene chloride	ND	676	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	338	676	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Naphthalene	ND	67.6	135	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
n-Propylbenzene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Styrene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Tetrachloroethene (PCE)	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Toluene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2,3-Trichlorobenzene	ND	169	338	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2,4-Trichlorobenzene	ND	169	338	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1,1-Trichloroethane	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,1,2-Trichloroethane	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Trichloroethene (TCE)	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Trichlorofluoromethane	ND	169	338	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2,3-Trichloropropane	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,2,4-Trimethylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
1,3,5-Trimethylbenzene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
Vinyl chloride	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
m,p-Xylene	ND	33.8	67.6	ug/kg dry	50	05/14/26 16:50	5035A/8260D	
o-Xylene	ND	16.9	33.8	ug/kg dry	50	05/14/26 16:50	5035A/8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-15-20 (A6E1273-01)				Matrix: Soil		Batch: 26E0458		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %	Limits: 80-120 %	1	05/14/26 16:50	5035A/8260D		
Toluene-d8 (Surr)		95 %	80-120 %	1	05/14/26 16:50	5035A/8260D		
4-Bromofluorobenzene (Surr)		98 %	79-120 %	1	05/14/26 16:50	5035A/8260D		
B1-COMP-SO-20-25 (A6E1273-02)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	673	1350	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Acrylonitrile	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Benzene	ND	6.73	13.5	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Bromobenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Bromochloromethane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Bromodichloromethane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Bromoform	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Bromomethane	ND	673	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
2-Butanone (MEK)	ND	337	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
n-Butylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
sec-Butylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
tert-Butylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Carbon disulfide	ND	337	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Carbon tetrachloride	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Chlorobenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Chloroethane	ND	337	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Chloroform	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Chloromethane	ND	168	337	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
2-Chlorotoluene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
4-Chlorotoluene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Dibromochloromethane	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	168	337	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Dibromomethane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2-Dichlorobenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,3-Dichlorobenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,4-Dichlorobenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Dichlorodifluoromethane	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1-Dichloroethane	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-20-25 (A6E1273-02)				Matrix: Soil		Batch: 26E0458		
1,2-Dichloroethane (EDC)	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1-Dichloroethene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
cis-1,2-Dichloroethene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
trans-1,2-Dichloroethene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2-Dichloropropane	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,3-Dichloropropane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
2,2-Dichloropropane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1-Dichloropropene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
cis-1,3-Dichloropropene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
trans-1,3-Dichloropropene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Ethylbenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Hexachlorobutadiene	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
2-Hexanone	ND	337	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Isopropylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
4-Isopropyltoluene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Methylene chloride	ND	673	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	337	673	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Naphthalene	ND	67.3	135	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
n-Propylbenzene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Styrene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Tetrachloroethene (PCE)	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Toluene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2,3-Trichlorobenzene	ND	168	337	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2,4-Trichlorobenzene	ND	168	337	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1,1-Trichloroethane	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,1,2-Trichloroethane	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Trichloroethene (TCE)	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Trichlorofluoromethane	ND	168	337	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2,3-Trichloropropane	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
1,2,4-Trimethylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-20-25 (A6E1273-02)				Matrix: Soil		Batch: 26E0458		
1,3,5-Trimethylbenzene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Vinyl chloride	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
m,p-Xylene	ND	33.7	67.3	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
o-Xylene	ND	16.8	33.7	ug/kg dry	50	05/14/26 17:18	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %	1	05/14/26 17:18	5035A/8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	05/14/26 17:18	5035A/8260D	
4-Bromofluorobenzene (Surr)		99 %		79-120 %	1	05/14/26 17:18	5035A/8260D	
B1-COMP-SO-25-30 (A6E1273-03)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	633	1270	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Acrylonitrile	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Benzene	ND	6.33	12.7	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Bromobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Bromochloromethane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Bromodichloromethane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Bromoform	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Bromomethane	ND	633	633	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
2-Butanone (MEK)	ND	316	633	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
n-Butylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
sec-Butylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
tert-Butylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Carbon disulfide	ND	316	633	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Carbon tetrachloride	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Chlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Chloroethane	ND	316	633	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Chloroform	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Chloromethane	ND	158	316	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
2-Chlorotoluene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
4-Chlorotoluene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Dibromochloromethane	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	158	316	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Dibromomethane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2-Dichlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	

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Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-25-30 (A6E1273-03)				Matrix: Soil		Batch: 26E0458		
1,3-Dichlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,4-Dichlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Dichlorodifluoromethane	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1-Dichloroethane	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1-Dichloroethene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
cis-1,2-Dichloroethene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
trans-1,2-Dichloroethene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2-Dichloropropane	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,3-Dichloropropane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
2,2-Dichloropropane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1-Dichloropropene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
cis-1,3-Dichloropropene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
trans-1,3-Dichloropropene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Ethylbenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Hexachlorobutadiene	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
2-Hexanone	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Isopropylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
4-Isopropyltoluene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Methylene chloride	ND	63.3	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Naphthalene	ND	63.3	127	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
n-Propylbenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Styrene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Tetrachloroethene (PCE)	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Toluene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2,3-Trichlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2,4-Trichlorobenzene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1,1-Trichloroethane	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,1,2-Trichloroethane	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director

Page 8 of 36



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-25-30 (A6E1273-03)				Matrix: Soil		Batch: 26E0458		
Trichloroethene (TCE)	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Trichlorofluoromethane	ND	158	316	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2,3-Trichloropropane	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,2,4-Trimethylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
1,3,5-Trimethylbenzene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Vinyl chloride	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
m,p-Xylene	ND	31.6	63.3	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
o-Xylene	ND	15.8	31.6	ug/kg dry	50	05/14/26 17:45	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	107 %	Limits:	80-120 %	1	05/14/26 17:45	5035A/8260D
Toluene-d8 (Surr)			95 %		80-120 %	1	05/14/26 17:45	5035A/8260D
4-Bromofluorobenzene (Surr)			99 %		79-120 %	1	05/14/26 17:45	5035A/8260D
B1-COMP-SO-30-35 (A6E1273-04)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	793	1590	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Acrylonitrile	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Benzene	ND	7.93	15.9	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Bromobenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Bromochloromethane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Bromodichloromethane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Bromoform	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Bromomethane	ND	793	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
2-Butanone (MEK)	ND	397	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
n-Butylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
sec-Butylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
tert-Butylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Carbon disulfide	ND	397	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Carbon tetrachloride	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Chlorobenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Chloroethane	ND	397	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Chloroform	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Chloromethane	ND	198	397	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
2-Chlorotoluene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
4-Chlorotoluene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Dibromochloromethane	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-30-35 (A6E1273-04)				Matrix: Soil		Batch: 26E0458		
1,2-Dibromo-3-chloropropane	ND	198	397	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Dibromomethane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2-Dichlorobenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,3-Dichlorobenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,4-Dichlorobenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Dichlorodifluoromethane	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1-Dichloroethane	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1-Dichloroethene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
cis-1,2-Dichloroethene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
trans-1,2-Dichloroethene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2-Dichloropropane	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,3-Dichloropropane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
2,2-Dichloropropane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1-Dichloropropene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
cis-1,3-Dichloropropene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
trans-1,3-Dichloropropene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Ethylbenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Hexachlorobutadiene	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
2-Hexanone	ND	397	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Isopropylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
4-Isopropyltoluene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Methylene chloride	ND	793	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	397	793	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Naphthalene	ND	79.3	159	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
n-Propylbenzene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Styrene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Tetrachloroethene (PCE)	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Toluene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	

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Philip Nerenberg, Lab Director

Page 10 of 36



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-30-35 (A6E1273-04)				Matrix: Soil		Batch: 26E0458		
1,2,3-Trichlorobenzene	ND	198	397	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2,4-Trichlorobenzene	ND	198	397	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1,1-Trichloroethane	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,1,2-Trichloroethane	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Trichloroethene (TCE)	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Trichlorofluoromethane	ND	198	397	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2,3-Trichloropropane	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,2,4-Trimethylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
1,3,5-Trimethylbenzene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Vinyl chloride	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
m,p-Xylene	ND	39.7	79.3	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
o-Xylene	ND	19.8	39.7	ug/kg dry	50	05/14/26 18:12	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %	1	05/14/26 18:12	5035A/8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	05/14/26 18:12	5035A/8260D	
4-Bromofluorobenzene (Surr)		99 %		79-120 %	1	05/14/26 18:12	5035A/8260D	
B1-COMP-SO-35-40 (A6E1273-05)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	657	1310	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Acrylonitrile	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Benzene	ND	6.57	13.1	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Bromobenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Bromochloromethane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Bromodichloromethane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Bromoform	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Bromomethane	ND	657	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
2-Butanone (MEK)	ND	328	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
n-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
sec-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
tert-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Carbon disulfide	ND	328	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Carbon tetrachloride	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Chlorobenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Chloroethane	ND	328	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Chloroform	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-35-40 (A6E1273-05)				Matrix: Soil		Batch: 26E0458		
Chloromethane	ND	164	328	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
2-Chlorotoluene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
4-Chlorotoluene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Dibromochloromethane	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	164	328	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Dibromomethane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,3-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,4-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Dichlorodifluoromethane	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1-Dichloroethane	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
cis-1,2-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
trans-1,2-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2-Dichloropropane	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,3-Dichloropropane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
2,2-Dichloropropane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
cis-1,3-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
trans-1,3-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Ethylbenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Hexachlorobutadiene	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
2-Hexanone	ND	328	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Isopropylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
4-Isopropyltoluene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Methylene chloride	ND	657	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	328	657	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Naphthalene	ND	65.7	131	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
n-Propylbenzene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Styrene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-35-40 (A6E1273-05)				Matrix: Soil		Batch: 26E0458		
1,1,1,2-Tetrachloroethane	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Tetrachloroethene (PCE)	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Toluene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2,3-Trichlorobenzene	ND	164	328	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2,4-Trichlorobenzene	ND	164	328	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1,1-Trichloroethane	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,1,2-Trichloroethane	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Trichloroethene (TCE)	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Trichlorofluoromethane	ND	164	328	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2,3-Trichloropropane	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,2,4-Trimethylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
1,3,5-Trimethylbenzene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Vinyl chloride	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
m,p-Xylene	ND	32.8	65.7	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
o-Xylene	ND	16.4	32.8	ug/kg dry	50	05/14/26 18:40	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %	1	05/14/26 18:40	5035A/8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	05/14/26 18:40	5035A/8260D	
4-Bromofluorobenzene (Surr)		98 %		79-120 %	1	05/14/26 18:40	5035A/8260D	
B1-COMP-SO-40-45 (A6E1273-06)				Matrix: Soil		Batch: 26E0458		
Acetone	ND	614	1230	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Acrylonitrile	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Benzene	ND	6.14	12.3	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Bromobenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Bromochloromethane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Bromodichloromethane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Bromoform	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Bromomethane	ND	614	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
2-Butanone (MEK)	ND	307	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
n-Butylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
sec-Butylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
tert-Butylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Carbon disulfide	ND	307	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-40-45 (A6E1273-06)				Matrix: Soil		Batch: 26E0458		
Carbon tetrachloride	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Chlorobenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Chloroethane	ND	307	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Chloroform	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Chloromethane	ND	154	307	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
2-Chlorotoluene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
4-Chlorotoluene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Dibromochloromethane	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	154	307	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Dibromomethane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2-Dichlorobenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,3-Dichlorobenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,4-Dichlorobenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Dichlorodifluoromethane	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1-Dichloroethane	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1-Dichloroethene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
cis-1,2-Dichloroethene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
trans-1,2-Dichloroethene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2-Dichloropropane	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,3-Dichloropropane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
2,2-Dichloropropane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1-Dichloropropene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
cis-1,3-Dichloropropene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
trans-1,3-Dichloropropene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Ethylbenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Hexachlorobutadiene	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
2-Hexanone	ND	307	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Isopropylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
4-Isopropyltoluene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Methylene chloride	ND	614	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	307	614	ug/kg dry	50	05/14/26 19:35	5035A/8260D	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-40-45 (A6E1273-06)		Matrix: Soil			Batch: 26E0458			
Methyl tert-butyl ether (MTBE)	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Naphthalene	ND	61.4	123	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
n-Propylbenzene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Styrene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Tetrachloroethene (PCE)	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Toluene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2,3-Trichlorobenzene	ND	154	307	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2,4-Trichlorobenzene	ND	154	307	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1,1-Trichloroethane	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,1,2-Trichloroethane	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Trichloroethene (TCE)	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Trichlorofluoromethane	ND	154	307	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2,3-Trichloropropane	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,2,4-Trimethylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
1,3,5-Trimethylbenzene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
Vinyl chloride	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
m,p-Xylene	ND	30.7	61.4	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
o-Xylene	ND	15.4	30.7	ug/kg dry	50	05/14/26 19:35	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	107 %	<i>Limits:</i>	80-120 %	1	05/14/26 19:35	5035A/8260D
<i>Toluene-d8 (Surr)</i>			95 %		80-120 %	1	05/14/26 19:35	5035A/8260D
<i>4-Bromofluorobenzene (Surr)</i>			99 %		79-120 %	1	05/14/26 19:35	5035A/8260D

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-15-20 (A6E1273-01) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.239	mg/kg dry	10	05/14/26 23:04	EPA 6020B	
Chromium	13.7	---	1.19	mg/kg dry	10	05/14/26 23:04	EPA 6020B	
Lead	5.09	---	0.239	mg/kg dry	10	05/14/26 23:04	EPA 6020B	
B1-COMP-SO-20-25 (A6E1273-02) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.237	mg/kg dry	10	05/14/26 23:21	EPA 6020B	
Chromium	12.0	---	1.19	mg/kg dry	10	05/14/26 23:21	EPA 6020B	
Lead	4.68	---	0.237	mg/kg dry	10	05/14/26 23:21	EPA 6020B	
B1-COMP-SO-25-30 (A6E1273-03) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.229	mg/kg dry	10	05/14/26 23:27	EPA 6020B	
Chromium	16.1	---	1.15	mg/kg dry	10	05/14/26 23:27	EPA 6020B	
Lead	4.31	---	0.229	mg/kg dry	10	05/14/26 23:27	EPA 6020B	
B1-COMP-SO-30-35 (A6E1273-04) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.266	mg/kg dry	10	05/14/26 23:32	EPA 6020B	
Chromium	20.7	---	1.33	mg/kg dry	10	05/14/26 23:32	EPA 6020B	
Lead	5.34	---	0.266	mg/kg dry	10	05/14/26 23:32	EPA 6020B	
B1-COMP-SO-35-40 (A6E1273-05) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.248	mg/kg dry	10	05/14/26 23:49	EPA 6020B	
Chromium	19.9	---	1.24	mg/kg dry	10	05/14/26 23:49	EPA 6020B	
Lead	3.55	---	0.248	mg/kg dry	10	05/14/26 23:49	EPA 6020B	
B1-COMP-SO-40-45 (A6E1273-06) Matrix: Soil								
Batch: 26E0491								
Cadmium	ND	---	0.224	mg/kg dry	10	05/14/26 23:55	EPA 6020B	
Chromium	13.9	---	1.12	mg/kg dry	10	05/14/26 23:55	EPA 6020B	
Lead	4.07	---	0.224	mg/kg dry	10	05/14/26 23:55	EPA 6020B	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
B1-COMP-SO-15-20 (A6E1273-01)				Matrix: Soil		Batch: 26E0456		
% Solids	83.1	---	1.00	%	1	05/15/26 10:38	EPA 8000D	
B1-COMP-SO-20-25 (A6E1273-02)				Matrix: Soil		Batch: 26E0456		
% Solids	83.9	---	1.00	%	1	05/15/26 10:38	EPA 8000D	
B1-COMP-SO-25-30 (A6E1273-03)				Matrix: Soil		Batch: 26E0456		
% Solids	90.1	---	1.00	%	1	05/15/26 10:38	EPA 8000D	
B1-COMP-SO-30-35 (A6E1273-04)				Matrix: Soil		Batch: 26E0456		
% Solids	77.3	---	1.00	%	1	05/15/26 10:38	EPA 8000D	
B1-COMP-SO-35-40 (A6E1273-05)				Matrix: Soil		Batch: 26E0456		
% Solids	83.0	---	1.00	%	1	05/15/26 10:38	EPA 8000D	
B1-COMP-SO-40-45 (A6E1273-06)				Matrix: Soil		Batch: 26E0456		
% Solids	86.8	---	1.00	%	1	05/15/26 10:38	EPA 8000D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Blank (26E0458-BLK1)			Prepared: 05/14/26 14:00		Analyzed: 05/14/26 16:23							
5035A/8260D												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Blank (26E0458-BLK1)						Prepared: 05/14/26 14:00 Analyzed: 05/14/26 16:23						
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	378	250	500	ug/kg wet	50	---	---	---	---	---	---	B-02, J
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Blank (26E0458-BLK1)			Prepared: 05/14/26 14:00		Analyzed: 05/14/26 16:23							
Surr: Toluene-d8 (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		79-120 %		"						
LCS (26E0458-BS1)			Prepared: 05/14/26 14:00		Analyzed: 05/14/26 15:01							
5035A/8260D												
Acetone	2060	500	1000	ug/kg wet	50	2000	---	103	80-120%	---	---	Q-56
Acrylonitrile	1060	50.0	100	ug/kg wet	50	1000	---	106	80-120%	---	---	
Benzene	1050	5.00	10.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromobenzene	941	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Bromochloromethane	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Bromodichloromethane	1140	25.0	50.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
Bromoform	1180	50.0	100	ug/kg wet	50	1000	---	118	80-120%	---	---	
Bromomethane	1350	500	500	ug/kg wet	50	1000	---	135	80-120%	---	---	
2-Butanone (MEK)	1940	250	500	ug/kg wet	50	2000	---	97	80-120%	---	---	
n-Butylbenzene	864	25.0	50.0	ug/kg wet	50	1000	---	86	80-120%	---	---	
sec-Butylbenzene	920	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
tert-Butylbenzene	832	25.0	50.0	ug/kg wet	50	1000	---	83	80-120%	---	---	
Carbon disulfide	1070	250	500	ug/kg wet	50	1000	---	107	80-120%	---	---	
Carbon tetrachloride	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	1350	250	500	ug/kg wet	50	1000	---	135	80-120%	---	---	
Chloroform	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Chloromethane	1130	125	250	ug/kg wet	50	1000	---	113	80-120%	---	---	
2-Chlorotoluene	898	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
4-Chlorotoluene	905	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Dibromochloromethane	1120	50.0	100	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dibromo-3-chloropropane	972	125	250	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dibromoethane (EDB)	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Dibromomethane	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2-Dichlorobenzene	948	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
1,3-Dichlorobenzene	964	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,4-Dichlorobenzene	946	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dichlorodifluoromethane	1200	50.0	100	ug/kg wet	50	1000	---	120	80-120%	---	---	
1,1-Dichloroethane	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Q-56												

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
LCS (26E0458-BS1)						Prepared: 05/14/26 14:00 Analyzed: 05/14/26 15:01						
1,2-Dichloroethane (EDC)	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,1-Dichloroethene	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
cis-1,2-Dichloroethene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
trans-1,2-Dichloroethene	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,2-Dichloropropane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,3-Dichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
2,2-Dichloropropane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	956	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
trans-1,3-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Ethylbenzene	918	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Hexachlorobutadiene	920	50.0	100	ug/kg wet	50	1000	---	92	80-120%	---	---	
2-Hexanone	1720	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
Isopropylbenzene	900	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
4-Isopropyltoluene	832	25.0	50.0	ug/kg wet	50	1000	---	83	80-120%	---	---	
Methylene chloride	1430	250	500	ug/kg wet	50	1000	---	143	80-120%	---	---	B-02, Q-56
4-Methyl-2-pentanone (MiBK)	1780	250	500	ug/kg wet	50	2000	---	89	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	968	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	868	50.0	100	ug/kg wet	50	1000	---	87	80-120%	---	---	
n-Propylbenzene	900	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Styrene	918	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Toluene	975	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2,3-Trichlorobenzene	892	125	250	ug/kg wet	50	1000	---	89	80-120%	---	---	
1,2,4-Trichlorobenzene	883	125	250	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,1,1-Trichloroethane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,2-Trichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Trichloroethene (TCE)	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Trichlorofluoromethane	961	125	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,3-Trichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	890	25.0	50.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
1,3,5-Trimethylbenzene	892	25.0	50.0	ug/kg wet	50	1000	---	89	80-120%	---	---	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
LCS (26E0458-BS1)						Prepared: 05/14/26 14:00 Analyzed: 05/14/26 15:01						
Vinyl chloride	1250	12.5	25.0	ug/kg wet	50	1000	---	125	80-120%	---	---	Q-56
m,p-Xylene	1900	25.0	50.0	ug/kg wet	50	2000	---	95	80-120%	---	---	
o-Xylene	880	12.5	25.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		79-120 %		"						

Duplicate (26E0458-DUP1)

Prepared: 05/14/26 12:15 Analyzed: 05/14/26 19:07

QC Source Sample: B1-COMP-SQ-35-40 (A6E1273-05)**5035A/8260D**

Acetone	ND	657	1310	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	6.57	13.1	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	657	657	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	328	657	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	328	657	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	328	657	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	164	328	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	164	328	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Duplicate (26E0458-DUP1)			Prepared: 05/14/26 12:15 Analyzed: 05/14/26 19:07									
QC Source Sample: B1-COMP-SO-35-40 (A6E1273-05)												
1,2-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	328	657	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	657	657	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	328	657	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	65.7	131	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	164	328	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	164	328	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Duplicate (26E0458-DUP1)			Prepared: 05/14/26 12:15 Analyzed: 05/14/26 19:07									
QC Source Sample: B1-COMP-SO-35-40 (A6E1273-05)												
1,1,2-Trichloroethane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	32.8	65.7	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	16.4	32.8	ug/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		79-120 %		"						

Matrix Spike (26E0458-MS1)

Prepared: 05/14/26 12:55 Analyzed: 05/14/26 20:02

QC Source Sample: B1-COMP-SO-40-45 (A6E1273-06)

5035A/8260D

Acetone	2310	614	1230	ug/kg dry	50	2460	ND	94	36-164%	---	---	
Acrylonitrile	1280	61.4	123	ug/kg dry	50	1230	ND	104	65-134%	---	---	
Benzene	1400	6.14	12.3	ug/kg dry	50	1230	ND	114	77-121%	---	---	
Bromobenzene	1260	15.4	30.7	ug/kg dry	50	1230	ND	102	78-121%	---	---	
Bromochloromethane	1430	30.7	61.4	ug/kg dry	50	1230	ND	117	78-125%	---	---	
Bromodichloromethane	1510	30.7	61.4	ug/kg dry	50	1230	ND	123	75-127%	---	---	
Bromoform	1560	61.4	123	ug/kg dry	50	1230	ND	127	67-132%	---	---	
Bromomethane	1640	61.4	61.4	ug/kg dry	50	1230	ND	133	53-143%	---	---	Q-54
2-Butanone (MEK)	2320	307	61.4	ug/kg dry	50	2460	ND	94	51-148%	---	---	
n-Butylbenzene	1140	30.7	61.4	ug/kg dry	50	1230	ND	93	70-128%	---	---	
sec-Butylbenzene	1250	30.7	61.4	ug/kg dry	50	1230	ND	101	73-126%	---	---	
tert-Butylbenzene	1110	30.7	61.4	ug/kg dry	50	1230	ND	90	73-125%	---	---	
Carbon disulfide	1520	307	61.4	ug/kg dry	50	1230	ND	124	63-132%	---	---	
Carbon tetrachloride	1410	30.7	61.4	ug/kg dry	50	1230	ND	115	70-135%	---	---	
Chlorobenzene	1290	15.4	30.7	ug/kg dry	50	1230	ND	105	79-120%	---	---	
Chloroethane	1680	307	61.4	ug/kg dry	50	1230	ND	137	59-139%	---	---	Q-54
Chloroform	1340	30.7	61.4	ug/kg dry	50	1230	ND	109	78-123%	---	---	

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Philip Nerenberg, Lab Director

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3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Matrix Spike (26E0458-MS1)				Prepared: 05/14/26 12:55 Analyzed: 05/14/26 20:02								
QC Source Sample: B1-COMP-SO-40-45 (A6E1273-06)												
Chloromethane	1450	154	307	ug/kg dry	50	1230	ND	118	50-136%	---	---	
2-Chlorotoluene	1230	30.7	61.4	ug/kg dry	50	1230	ND	100	75-122%	---	---	
4-Chlorotoluene	1180	30.7	61.4	ug/kg dry	50	1230	ND	96	72-124%	---	---	
Dibromochloromethane	1400	61.4	123	ug/kg dry	50	1230	ND	114	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1070	154	307	ug/kg dry	50	1230	ND	87	61-132%	---	---	
1,2-Dibromoethane (EDB)	1280	30.7	61.4	ug/kg dry	50	1230	ND	104	78-122%	---	---	
Dibromomethane	1460	30.7	61.4	ug/kg dry	50	1230	ND	119	78-125%	---	---	
1,2-Dichlorobenzene	1170	15.4	30.7	ug/kg dry	50	1230	ND	95	78-121%	---	---	
1,3-Dichlorobenzene	1240	15.4	30.7	ug/kg dry	50	1230	ND	101	77-121%	---	---	
1,4-Dichlorobenzene	1200	15.4	30.7	ug/kg dry	50	1230	ND	98	75-120%	---	---	
Dichlorodifluoromethane	1700	61.4	123	ug/kg dry	50	1230	ND	138	29-149%	---	---	
1,1-Dichloroethane	1420	15.4	30.7	ug/kg dry	50	1230	ND	116	76-125%	---	---	
1,2-Dichloroethane (EDC)	1340	15.4	30.7	ug/kg dry	50	1230	ND	109	73-128%	---	---	
1,1-Dichloroethene	1580	15.4	30.7	ug/kg dry	50	1230	ND	128	70-131%	---	---	
cis-1,2-Dichloroethene	1380	15.4	30.7	ug/kg dry	50	1230	ND	113	77-123%	---	---	
trans-1,2-Dichloroethene	1460	15.4	30.7	ug/kg dry	50	1230	ND	119	74-125%	---	---	
1,2-Dichloropropane	1400	15.4	30.7	ug/kg dry	50	1230	ND	114	76-123%	---	---	
1,3-Dichloropropane	1230	30.7	61.4	ug/kg dry	50	1230	ND	100	77-121%	---	---	
2,2-Dichloropropane	1390	30.7	61.4	ug/kg dry	50	1230	ND	113	67-133%	---	---	
1,1-Dichloropropene	1360	30.7	61.4	ug/kg dry	50	1230	ND	111	76-125%	---	---	
cis-1,3-Dichloropropene	1100	30.7	61.4	ug/kg dry	50	1230	ND	90	74-126%	---	---	
trans-1,3-Dichloropropene	1230	30.7	61.4	ug/kg dry	50	1230	ND	100	71-130%	---	---	
Ethylbenzene	1180	15.4	30.7	ug/kg dry	50	1230	ND	96	76-122%	---	---	
Hexachlorobutadiene	1220	61.4	123	ug/kg dry	50	1230	ND	99	61-135%	---	---	
2-Hexanone	1970	307	614	ug/kg dry	50	2460	ND	80	53-145%	---	---	
Isopropylbenzene	1210	30.7	61.4	ug/kg dry	50	1230	ND	98	68-134%	---	---	
4-Isopropyltoluene	1110	30.7	61.4	ug/kg dry	50	1230	ND	91	73-127%	---	---	
Methylene chloride	1740	307	614	ug/kg dry	50	1230	ND	114	70-128%	---	---	B-02, Q-54a
4-Methyl-2-pentanone (MiBK)	2150	307	614	ug/kg dry	50	2460	ND	87	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1240	30.7	61.4	ug/kg dry	50	1230	ND	101	73-125%	---	---	
Naphthalene	921	61.4	123	ug/kg dry	50	1230	ND	75	62-129%	---	---	
n-Propylbenzene	1250	15.4	30.7	ug/kg dry	50	1230	ND	102	73-125%	---	---	
Styrene	1220	30.7	61.4	ug/kg dry	50	1230	ND	99	76-124%	---	---	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0458 - EPA 5035A						Soil						
Matrix Spike (26E0458-MS1)				Prepared: 05/14/26 12:55		Analyzed: 05/14/26 20:02						
QC Source Sample: B1-COMP-SO-40-45 (A6E1273-06)												
1,1,1,2-Tetrachloroethane	1410	15.4	30.7	ug/kg dry	50	1230	ND	115	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1360	30.7	61.4	ug/kg dry	50	1230	ND	111	70-124%	---	---	
Tetrachloroethene (PCE)	1240	15.4	30.7	ug/kg dry	50	1230	ND	101	73-128%	---	---	
Toluene	1180	30.7	61.4	ug/kg dry	50	1230	ND	96	77-121%	---	---	
1,2,3-Trichlorobenzene	979	154	307	ug/kg dry	50	1230	ND	80	66-130%	---	---	
1,2,4-Trichlorobenzene	997	154	307	ug/kg dry	50	1230	ND	81	67-129%	---	---	
1,1,1-Trichloroethane	1460	15.4	30.7	ug/kg dry	50	1230	ND	119	73-130%	---	---	
1,1,2-Trichloroethane	1280	15.4	30.7	ug/kg dry	50	1230	ND	104	78-121%	---	---	
Trichloroethene (TCE)	1450	15.4	30.7	ug/kg dry	50	1230	ND	118	77-123%	---	---	
Trichlorofluoromethane	3180	154	307	ug/kg dry	50	1230	ND	259	62-140%	---	---	Q-01
1,2,3-Trichloropropane	1290	30.7	61.4	ug/kg dry	50	1230	ND	105	73-125%	---	---	
1,2,4-Trimethylbenzene	1150	30.7	61.4	ug/kg dry	50	1230	ND	94	75-123%	---	---	
1,3,5-Trimethylbenzene	1180	30.7	61.4	ug/kg dry	50	1230	ND	96	73-124%	---	---	
Vinyl chloride	1670	15.4	30.7	ug/kg dry	50	1230	ND	136	56-135%	---	---	Q-54b
m,p-Xylene	2470	30.7	61.4	ug/kg dry	50	2460	ND	101	77-124%	---	---	
o-Xylene	1160	15.4	30.7	ug/kg dry	50	1230	ND	94	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		79-120 %		"						

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**

Project Number: **M3436.01.001**

Project Manager: **Merideth D'Andrea**

Report ID:

A6E1273 - 05 15 26 1635

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0491 - EPA 3051A												
Soil												
Blank (26E0491-BLK1)												
Prepared: 05/14/26 16:43 Analyzed: 05/14/26 22:53												
EPA 6020B												
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (26E0491-BS1)												
Prepared: 05/14/26 16:43 Analyzed: 05/14/26 22:59												
EPA 6020B												
Cadmium	50.2	---	0.200	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Chromium	48.0	---	1.00	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Lead	49.5	---	0.200	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Duplicate (26E0491-DUP1)												
Prepared: 05/14/26 16:43 Analyzed: 05/14/26 23:10												
QC Source Sample: B1-COMP-SO-15-20 (A6E1273-01)												
EPA 6020B												
Cadmium	ND	---	0.235	mg/kg dry	10	---	0.155	---	---	***	20%	
Chromium	15.9	---	1.18	mg/kg dry	10	---	13.7	---	---	15	20%	
Lead	5.18	---	0.235	mg/kg dry	10	---	5.09	---	---	2	20%	
Matrix Spike (26E0491-MS1)												
Prepared: 05/14/26 16:43 Analyzed: 05/14/26 23:16												
QC Source Sample: B1-COMP-SO-15-20 (A6E1273-01)												
EPA 6020B												
Cadmium	58.1	---	0.241	mg/kg dry	10	60.1	0.155	96	75-125%	---	---	
Chromium	72.2	---	1.20	mg/kg dry	10	60.1	13.7	97	75-125%	---	---	
Lead	61.1	---	0.241	mg/kg dry	10	60.1	5.09	93	75-125%	---	---	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: North Mississippi - Dry Well Permitting

Project Number: M3436.01.001

Project Manager: Merideth D'Andrea

Report ID:

A6E1273 - 05 15 26 1635

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 26E0456 - Dry Weight Prep (EPA 8000D)							Soil					
Duplicate (26E0456-DUP1)			Prepared: 05/14/26 08:48 Analyzed: 05/15/26 10:38						CONT			
<u>QC Source Sample: Non-SDG (A6D1984-01)</u>												
% Solids	68.4	---	1.00	%	1	---	68.9	---	---	0.7	10%	
Duplicate (26E0456-DUP2)			Prepared: 05/14/26 08:48 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1161-01)</u>												
% Solids	75.7	---	1.00	%	1	---	76.0	---	---	0.4	10%	
Duplicate (26E0456-DUP3)			Prepared: 05/14/26 08:48 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1170-01)</u>												
% Solids	65.0	---	1.00	%	1	---	62.6	---	---	4	10%	
Duplicate (26E0456-DUP4)			Prepared: 05/14/26 08:48 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1175-01)</u>												
% Solids	81.7	---	1.00	%	1	---	84.2	---	---	3	10%	
Duplicate (26E0456-DUP5)			Prepared: 05/14/26 08:48 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1192-01)</u>												
% Solids	90.3	---	1.00	%	1	---	90.3	---	---	0.08	10%	
Duplicate (26E0456-DUP6)			Prepared: 05/14/26 17:49 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1236-01)</u>												
% Solids	84.3	---	1.00	%	1	---	86.2	---	---	2	10%	
Duplicate (26E0456-DUP7)			Prepared: 05/14/26 17:49 Analyzed: 05/15/26 10:38									
<u>QC Source Sample: Non-SDG (A6E1285-02)</u>												
% Solids	77.1	---	1.00	%	1	---	77.4	---	---	0.3	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**Project Number: **M3436.01.001**Project Manager: **Merideth D'Andrea****Report ID:****A6E1273 - 05 15 26 1635****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 8260D****Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 26E0458</u>							
A6E1273-01	Soil	5035A/8260D	05/14/26 10:00	05/14/26 10:00	26.16g/25mL	5g/5mL	0.96
A6E1273-02	Soil	5035A/8260D	05/14/26 10:35	05/14/26 10:35	25.84g/25mL	5g/5mL	0.97
A6E1273-03	Soil	5035A/8260D	05/14/26 11:00	05/14/26 11:00	24.02g/25mL	5g/5mL	1.04
A6E1273-04	Soil	5035A/8260D	05/14/26 11:45	05/14/26 11:45	25.01g/25mL	5g/5mL	1.00
A6E1273-05	Soil	5035A/8260D	05/14/26 12:15	05/14/26 12:15	27.19g/25mL	5g/5mL	0.92
A6E1273-06	Soil	5035A/8260D	05/14/26 12:55	05/14/26 12:55	26.78g/25mL	5g/5mL	0.93

Total Metals by EPA 6020B (ICPMS)**Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 26E0491</u>							
A6E1273-01	Soil	EPA 6020B	05/14/26 10:00	05/14/26 16:43	0.504g/50mL	0.5g/50mL	0.99
A6E1273-02	Soil	EPA 6020B	05/14/26 10:35	05/14/26 16:43	0.503g/50mL	0.5g/50mL	0.99
A6E1273-03	Soil	EPA 6020B	05/14/26 11:00	05/14/26 16:43	0.484g/50mL	0.5g/50mL	1.03
A6E1273-04	Soil	EPA 6020B	05/14/26 11:45	05/14/26 16:43	0.486g/50mL	0.5g/50mL	1.03
A6E1273-05	Soil	EPA 6020B	05/14/26 12:15	05/14/26 16:43	0.486g/50mL	0.5g/50mL	1.03
A6E1273-06	Soil	EPA 6020B	05/14/26 12:55	05/14/26 16:43	0.514g/50mL	0.5g/50mL	0.97

Percent Dry Weight**Prep: Dry Weight Prep (EPA 8000D)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 26E0456</u>							
A6E1273-01	Soil	EPA 8000D	05/14/26 10:00	05/14/26 17:49	1g	1g	1.00
A6E1273-02	Soil	EPA 8000D	05/14/26 10:35	05/14/26 17:49	1g	1g	1.00
A6E1273-03	Soil	EPA 8000D	05/14/26 11:00	05/14/26 17:49	1g	1g	1.00
A6E1273-04	Soil	EPA 8000D	05/14/26 11:45	05/14/26 17:49	1g	1g	1.00
A6E1273-05	Soil	EPA 8000D	05/14/26 12:15	05/14/26 17:49	1g	1g	1.00
A6E1273-06	Soil	EPA 8000D	05/14/26 12:55	05/14/26 17:49	1g	1g	1.00

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**

Project Number: **M3436.01.001**

Project Manager: **Merideth D'Andrea**

Report ID:

A6E1273 - 05 15 26 1635

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +15%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +23%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in the associated EPA method by +5%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260. Samples that are ND (Non-Detect) are not impacted.

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Project: **North Mississippi - Dry Well Permitting**

Project Number: **M3436.01.001**

Project Manager: **Merideth D'Andrea**

Report ID:

A6E1273 - 05 15 26 1635

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Validated Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

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3140 NE Broadway Street

Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**

Project Number: **M3436.01.001**

Project Manager: **Merideth D'Andrea**

Report ID:

A6E1273 - 05 15 26 1635

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between $\frac{1}{2}$ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: **North Mississippi - Dry Well Permitting**

Project Number: **M3436.01.001**

Project Manager: **Merideth D'Andrea**

Report ID:

A6E1273 - 05 15 26 1635

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight correction as for normal analyses.

In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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Philip Nerenberg, Lab Director



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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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APEX LABS COOLER RECEIPT FORM

Client: MFA Element WO#: A6E1273

Project/Project #: North Mississippi - Dry Well permitting / M3436.01.001

Delivery Info:

Date/time received: 5/14/26 @ 1415 By: KMS

Delivered by: Apex Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐

From USDA Regulated Origin? Yes ☐ No ☒

Cooler Inspection Date/time inspected: 5/14/26 @ 1415 By: KMS

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.4						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why: ☒ No

Green dots applied to out of temperature samples? Yes ☒ No ☐

Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 5/14/26 @ 1442 By: KMS

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☒ No ☐ Comments:

COC/container discrepancies form initiated? Yes ☐ No ☒

Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:

Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒ pH ID:

Comments:

TB# 4051

Labeled by:

KMS

Witness:

KMS

Cooler Inspected by:

KMS

Form Y-003 R-02

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Attachment D

Data Validation Memorandum



MAUL
FOSTER
ALONGI

Data Validation Memorandum

Project No. M3436.01.001 | May 19, 2026 | Self Enhancement, Inc.

Maul Foster & Alongi, Inc. (MFA), conducted an independent Stage 2A review of the quality of analytical results for soil samples collected on May 14, 2026 at 4424/4480 North Mississippi Avenue in Portland, Oregon.

Apex Laboratories, LLC (Apex) performed the analyses. MFA reviewed Apex report number A6E1273. The analyses performed and the samples analyzed are listed in the following tables.

Analysis	Reference
Total metals	EPA 6020B
Total solids	EPA 8000D
Volatile organic compounds	EPA 8260D

Notes

EPA = U.S. Environmental Protection Agency.

Samples Analyzed	
Report A6E1273	
B1-COMP-SO-15-20	B1-COMP-SO-35-40
B1-COMP-SO-20-25	B1-COMP-SO-40-45
B1-COMP-SO-25-30	Trip Blank
B1-COMP-SO-30-35	---

Data Validation Procedures

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) guidelines for data review (EPA 2020a, 2020b) and appropriate laboratory- and method-specific guidelines (Apex 2025, EPA 1986).

EPA Method 8000D percent solids results reported by the laboratory for dry-weight correction were reviewed for completeness but were not included in Stage 2A data validation.

Based on the data quality assurance/quality control review described herein, the data, with the appropriate final data qualifiers assigned, are considered acceptable for their intended use. Final data qualifiers represent qualifiers originating from the laboratory and accepted by the reviewer, and data qualifiers assigned by the reviewer during validation.

Final data qualifiers:

- U = result is non-detect at the laboratory detection limit (LDL) or method reporting limit (MRL).

Sample Conditions

Sample Custody

Sample custody was appropriately documented on the chain-of-custody form accompanying the report.

Holding Times

Extractions and analyses were performed within the recommended holding times.

Preservation and Sample Storage

The samples were preserved and stored appropriately. The reviewer confirmed that all project samples were 5-part composites that were composited by MFA at the time of collection. Laboratory-prepared sample containers containing pre-measured methanol for 5-part composite samples were used for EPA Method 8260D analysis.

Reporting Limits

The laboratory evaluated EPA Method 8260D results to LDLs and the EPA Method 6020B and 8000D results to MRLs. Samples that required dilutions because of high analyte concentrations, matrix interferences, and/or dilutions necessary for preparation and/or analysis were reported with raised LDLs and/or MRLs.

The laboratory qualified results between the LDL and the MRL with J, as estimated.

Blank Results

Method Blanks

Laboratory method blanks are used to evaluate whether laboratory contamination was introduced during sample preparation and analysis. Laboratory method blank analyses were performed at the required frequencies, in accordance with laboratory- and method-specific requirements.

The EPA Method 8260D batch 26E0458 laboratory method blank had a detection of methylene chloride between the LDL and MRL, at 378 micrograms per kilogram. All associated samples were non-detect to LDLs; thus, qualification was not required.

All remaining laboratory method blank results were non-detect to LDLs (EPA Method 8260D) or MRLs (EPA Method 6020B).

Equipment Rinsate Blanks

Equipment rinsate blanks are used to evaluate the adequacy of the field equipment decontamination process when decontaminated sampling equipment is used to collect samples.

These blanks were not required for this sampling event, as all samples were collected using dedicated or single-use equipment.

Trip Blanks

Trip blanks are used to evaluate whether volatile organic compound contamination was introduced during shipping and field handling procedures.

A trip blank (sample Trip Blank) was submitted on hold with the sample delivery group A6E1273. All associated samples were non-detect to LDLs; thus, analysis of the trip blank sample was not necessary.

Laboratory Control Sample and Laboratory Control Sample Duplicate Results

Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) results are used to evaluate laboratory precision and accuracy. All LCS were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements. LCSD results were not reported; batch precision was evaluated with laboratory duplicate sample results.

According to report A6E1273, the EPA Method 8260D batch 26E0458 LCS results for bromomethane, chloroethane, methylene chloride, and vinyl chloride were above the upper percent recovery acceptance limit of 120 percent, ranging from 125 percent to 143 percent. All associated sample results were non-detect; thus, qualification was not required.

All remaining LCS results were within acceptance limits for percent recovery.

Laboratory Duplicate Results

Laboratory duplicate results are used to evaluate laboratory precision and sample homogeneity. All laboratory duplicate samples were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements.

All laboratory duplicate results met the acceptance criteria.

Matrix Spike and Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) results are used to evaluate laboratory precision, accuracy, and the effect of the sample matrix on sample preparation and target analyte recovery. All MS samples were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements. MSD results were not reported; batch precision was evaluated with laboratory duplicate sample results.

According to report A6E1273, EPA Method 8260D batch 26E0458 MS exceeded upper percent recovery limits for trichlorofluoromethane (259%; limit 140%) and vinyl chloride (136%; limit 136%). All associated sample results were non-detect; thus, qualification was not required.

All remaining MS results were within acceptance limits for percent recovery.

Surrogate Results

Surrogate results are used to evaluate laboratory performance of target organic compounds for individual samples.

All surrogate results were within percent recovery acceptance limits.

Field Duplicate Results

Field duplicate results are used to evaluate field precision and sample homogeneity.

No field duplicate samples were submitted for analysis.

Data Package

The data package was reviewed for transcription errors, omissions, and anomalies.

None were found.

References

Apex. 2025. *Quality Systems Manual*. Rev. 12. Apex Laboratories, LLC: Tigard, OR. June 20.

EPA. 1986. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. EPA publication SW-846. 3rd ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), VI phase III (2019), VII phase I (2019), and VII phase II (2020).

- EPA. 2020a. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. EPA 542-R-20-006. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.
- EPA. 2020b. *National Functional Guidelines for Organic Superfund Methods Data Review*. EPA 540-R-20-005. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.