



July 17, 2026

Project No. M0022.01.052

Nancy Sawka

Oregon Department of Environmental Quality

4026 Fairview Industrial Dr. SE

Salem, OR, 97302

Re: Hydrant Repair SMP Completion Report

Dear Nancy Sawka:

On behalf of Stella-Jones Corporation (Stella-Jones), Maul Foster & Alongi (MFA) has prepared this soil management plan (SMP) completion letter for the facility located at 22125 SW Rock Creek Road in Sheridan, Oregon (the Site). This letter describes the results of soil characterization process and disposal pathway of excavated soil as part of the Hydrant Repair SMP provided to the Oregon Department of Environmental Quality (DEQ) on August 4, 2025 (Attachment A) This information is being provided to DEQ under the May 2014 Soil Management Plan Procedures (SMPP) for the Site.

Project Description

In accordance with the SMP, Stella-Jones repaired the previously decommissioned hydrant located west of the main office along the southern portion of the Site. The repair involved the excavation of the area around the hydrant to cut and cap the downstream end of the water supply line and allowed Stella-Jones to resume water supply to the hydrant.

The excavated soil was used as backfill material as much as feasible and the excavation area was capped with gravel. After the repair was complete, approximately 20 cubic yards of soil remained and was containerized in a lined and covered roll-off bin pending transfer off site for disposal.

The containerized soil was sampled by collecting five random discrete samples that were then field composited into a single sample. Sample increments were collected using clean stainless-steel sampling equipment.

The sample was combined into laboratory-provided sample containers and placed on ice. The sample was submitted under chain-of-custody protocols to Apex Laboratories, LLC for sample processing and chemical analysis.

Data Summary

In accordance with the SMPP for the Site, the sample was analyzed for three chemicals of potential concern (COPC): total arsenic by EPA Method 6020B, dioxins/furans by EPA Method 1613B, and pentachlorophenol (penta) by EPA Method 8270E.

The attached Table and laboratory report (Attachment B) presents the results of the soil samples collected for characterization and are summarized below.

- Total arsenic was detected at 6.88 milligrams per kilogram (mg/kg)
- Penta was detected at 0.137 mg/kg

- Dioxins/furans toxicity equivalency (TEQ) was calculated at 138 picograms per gram.

Soil Characterization

MFA used the waste determination process outlined in Section 4 of the SMPP and the soil profile decision tree (Figure 1 of the SMPP, Attachment C) to characterize the soil and identify the soil disposal pathway. The determination for each step of the decision tree is presented below.

Listed Waste

The soil from the excavation area is not from an area of the Site known to have come into direct contact with process residuals or hazardous waste. Therefore, the soil does not need to be managed as a listed waste.

Characteristic Waste

MFA evaluated soil sample results using the Environmental Protection Agency (EPA) Hazardous Waste Rule of 20¹, based on EPA toxicity characteristic regulatory limits from Table 1 of U.S. 40 Code of Federal Regulations part 261.24.

The arsenic concentration of 6.88 mg/kg and the penta concentration of 0.137 mg/kg are below their respective EPA rule of 20 screening values of 100 mg/kg and 2,000 mg/kg.

Therefore, the soil does not have to be managed as characteristic waste.

Contaminated Media

MFA evaluated soil sample results against DEQ risk-based concentrations (RBCs) for soil ingestion, dermal contact, and inhalation pathway for both excavation and occupational worker receptors. Concentrations for each COPC are below their respective excavation worker RBC.

For occupational RBCs, arsenic and dioxins/furans TEQ exceeded their respective screening value; penta did not exceed.

As there are RBC exceedances, the remaining excavated soil from the hydrant repair was managed and disposed of as contaminated media.

Conclusion

Based on the soil profile decision tree evaluation, containerized soil from the hydrant repair was disposed of as contaminated media. Stella-Jones managed the soil as contaminated media and coordinated with a waste hauler and appropriate disposal facility to properly dispose of the material.

Sincerely,

Maul Foster & Alongi, Inc.



Cody Schweitzer, RG
Project Geologist



Jessica Glenn
Principal Environmental Scientist

¹ The EPA toxicity characteristic regulatory limit from Table 1 of U.S. 40 Code of Federal Regulations part 261.24 is multiplied by 20 in order to screen against total constituents.

Attachment

Limitations

Table

A—Hydrant Repair SMP

B—Laboratory Report

C—SMPP Figure 1: Soil Profile Decision Tree

cc:

Alex Clark

Heather Gawne

Anthony Ellison

Brian Bartlett

Steve Taylor

Limitations

The services undertaken in completing this report 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 report 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 report 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 report.



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Table



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Table
Fire Hydrant Repair Stockpile Results
Stella-Jones Sheridan



Location:	RBC, Soil Ingestion, Dermal Contact, and Inhalation ⁽¹⁾		EPA Hazardous Waste, Rule of 20 ^(a)	STOCKPILE
Sample Name:	Occupational	Excavation Worker		Hydrant Repair-SP
Collection Date:				10/22/2025
Total Metals (mg/kg)				
Arsenic	1.9	420	100	6.88
SVOCs (mg/kg)				
Pentachlorophenol	4.0	960	2,000	0.137 J
Dioxins/Furans (pg/g)				
1,2,3,4,6,7,8-HpCDD	NV	NV	NV	4,710
1,2,3,4,6,7,8-HpCDF	NV	NV	NV	780
1,2,3,4,7,8,9-HpCDF	NV	NV	NV	54.7
1,2,3,4,7,8-HxCDD	NV	NV	NV	38.5 J
1,2,3,4,7,8-HxCDF	NV	NV	NV	36.5 J
1,2,3,6,7,8-HxCDD	NV	NV	NV	166
1,2,3,6,7,8-HxCDF	NV	NV	NV	20.8 J
1,2,3,7,8,9-HxCDD	NV	NV	NV	90.9
1,2,3,7,8,9-HxCDF	NV	NV	NV	13.3 J
1,2,3,7,8-PeCDD	NV	NV	NV	19.4 J
1,2,3,7,8-PeCDF	NV	NV	NV	6.75 J
2,3,4,6,7,8-HxCDF	NV	NV	NV	33.7 J
2,3,4,7,8-PeCDF	NV	NV	NV	16.2 J
2,3,7,8-TCDD	16	4,800	NV	1.79 JK
2,3,7,8-TCDF	NV	NV	NV	1.56 JK
OCDD	NV	NV	NV	52,000 J
OCDF	NV	NV	NV	2,420
Total HpCDDs	NV	NV	NV	8,880
Total HpCDFs	NV	NV	NV	2,760 JK
Total HxCDDs	NV	NV	NV	908 J
Total HxCDFs	NV	NV	NV	928 JK
Total PeCDDs	NV	NV	NV	85.7 JK
Total PeCDFs	NV	NV	NV	199 JK
Total TCDDs	NV	NV	NV	5.53 JK
Total TCDF	NV	NV	NV	12.9 JK
Dioxin/Furan TEQ ^{(b)(2)}	16	4,800	NV	138 JT

Table
Fire Hydrant Repair Stockpile Results
Stella-Jones Sheridan



Notes

Analytical results over the calibration range of the instrument were qualified with J as estimated.

Shading (color key below) indicates detected values that exceed screening criteria.

RBC, Soil Ingestion, Dermal Contact, and Inhalation, Occupational

EPA = U.S. Environmental Protection Agency.

J = result is estimated.

JK = result is estimated and an estimated maximum potential concentration.

mg/kg = milligrams per kilogram.

NV = no value.

pg/g = picograms per gram.

RBC = risk-based concentration.

SVOC = semivolatile organic compound.

T = result is calculated.

TEQ = toxicity equivalency.

^(a)The EPA toxicity characteristic regulatory limit from Table 1 of U.S. 40 Code of Federal Regulations part 261.24 is multiplied by 20 in order to screen against total constituents.

^(b)Dioxin/furan TEQ calculated as the sum of each congener concentration multiplied by the corresponding mammalian toxic equivalent factor.

References

⁽¹⁾DEQ. 2023. Table: *Risk-Based Concentrations for Individual Chemicals*. Oregon Department of Environmental Quality, Environmental Cleanup Program. August.

⁽²⁾Van den Berg, M. et al. 2006. "The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds." *Toxicological Sciences*, 93(2): 223–241. [doi:10.1093/toxsci/kfl055]

Attachment A

Hydrant Repair SMP



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Memorandum

To: Nancy Sawka, Oregon Department of Environmental Quality Date: August 4, 2025
From: Cody Schweitzer, RG, Maul Foster & Alongi, Inc. Project No.: M0022.01.052
Re: Soil Management Plan: Fire Hydrant Repair

On behalf of Stella-Jones Corporation (Stella-Jones), Maul Foster & Alongi (MFA) has prepared this soil management plan (SMP) for the facility located at 22125 SW Rock Creek Road in Sheridan, Oregon (the Site). This document describes how soils will be managed as part of the fire hydrant repair activities. This information is being provided to the Oregon Department of Environmental Quality (DEQ) as required under the May 2014 Soil Management Plan Procedures (SMPP) for the Site.

Stella-Jones and MFA understand that DEQ approval is required prior to any excavation activities on Site. To obtain DEQ approval, this memorandum includes the following information, as required by the SMPP:

- Description of proposed excavation activities
- Field activities (sampling locations, sample methodology, chemical analysis)
- Soil characterization process

This information is primarily detailed in the SMPP but is summarized in this memorandum as it applies to the proposed Site activities.

Proposed Excavation Activities

Stella-Jones plans to repair a decommissioned fire hydrant west of the main office along the southern portion of the Site (Figure). The water supply to the fire hydrant is currently off, as there is a leak in the pipe downstream of the fire hydrant. The repair will involve the excavation of the area around the hydrant to cut and cap the downstream end of the water supply line. This repair will allow Stella-Jones to resume water supply to the hydrant. The anticipated excavation to complete this repair is approximately 6-foot in diameter and 3-feet deep.

Soil excavated during the repair will be used as backfill as much as feasible. It is anticipated that a minimal amount of material, less than approximately 10 cubic yards, will require characterization and on-site management prior to removal from the Site.



Figure: Site Features showing drip pad location.



Image 1 – Fire Hydrant Repair Area

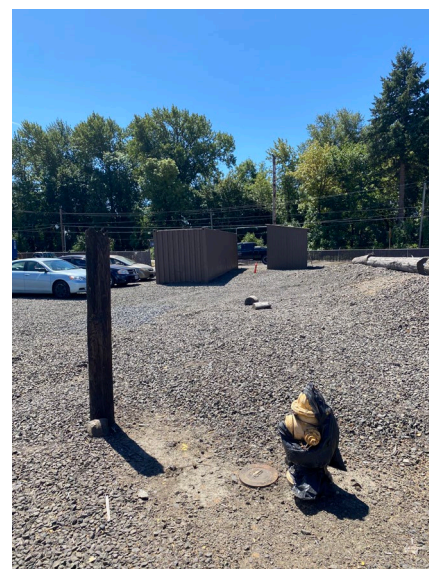


Image 2 – Decommissioned Hydrant

Field Activities

Soil from excavation activities will be stockpiled nearby for use as backfill material. After the repair is complete, the remaining soil will be stockpiled pending characterization for off-site disposal. Soil will be stockpiled under a rolling stock shed on 6-millimeter (mm) plastic sheeting, covered with 6 mm

plastic sheeting, and weighted down with sandbags (or other equivalent method) to prevent any potential erosion and dust generation.

The stockpiled soil will be sampled by collecting five random discrete samples that are then field composited into a single composite sample. Sample increments will be collected using a clean stainless-steel measuring cup to ensure a consistent volume of material is collected for each increment.

The samples will be combined into laboratory-provided sample containers and placed on ice. The sample will be submitted under chain-of-custody protocols to Apex Laboratories, LLC for chemical analysis.

Soil Characterization Process

In accordance with the SMPP for the Site, the ISM sample will be analyzed for total arsenic by EPA Method 6020B, dioxins/furans by EPA Method 1613B, and pentachlorophenol by EPA Method 8270E. The results will be compared to the DEQ risk-based concentrations for the occupational and excavation worker soil ingestion, dermal contact, and inhalation exposure pathways. Based on the analytical results, MFA will follow the soil profile decision tree (Figure 1 of the SMPP) to identify a soil disposal pathway for DEQ approval.

Attachment B

Laboratory Report



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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Saturday, November 15, 2025

Cody Schweitzer
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A5J1747 - Stella-Jones Sheridan - 2025 On-Call. - M0022.01.052

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 A5J1747, which was received by the laboratory on 10/22/2025 at 5:17:00PM.

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>4.6 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

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: Stella-Jones Sheridan - 2025 On-Call.

Project Number: M0022.01.052

Project Manager: Cody Schweitzer

Report ID:

A5J1747 - 11 15 25 1505

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Hydrant Repair-SP	A5J1747-01	Soil	10/22/25 13:30	10/22/25 17:17

Apex Laboratories

Philip Nerenberg, Lab Director

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Portland, OR 97232Project: Stella-Jones Sheridan - 2025 On-Call.

Project Number: M0022.01.052

Project Manager: Cody Schweitzer

Report ID:

A5J1747 - 11 15 25 1505

ANALYTICAL SAMPLE RESULTS

Pentachlorophenol by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Hydrant Repair-SP (A5J1747-01RE1)				Matrix: Soil		Batch: 25J0828		R-04
Pentachlorophenol (PCP)	137	76.5	154	ug/kg dry	4	10/25/25 00:47	EPA 8270E	J
Surrogate: 2,4,6-Tribromophenol (Surr)		Recovery: 92 %		Limits: 39-132 %	4	10/25/25 00:47	EPA 8270E	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Hydrant Repair-SP (A5J1747-01)				Matrix: Soil				
<u>Batch: 25J1059</u>								
Arsenic	6.88	---	1.47	mg/kg dry	10	10/30/25 18:47	EPA 6020B	

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Philip Nerenberg, Lab Director

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A5J1747 - 11 15 25 1505

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Hydrant Repair-SP (A5J1747-01)				Matrix: Soil		Batch: 25J0822		
% Solids	67.0	---	1.00	%	1	10/24/25 08:38	EPA 8000D	

Apex Laboratories

Philip Nerenberg, Lab Director

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A5J1747 - 11 15 25 1505

QUALITY CONTROL (QC) SAMPLE RESULTS

Pentachlorophenol by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25J0828 - EPA 3546						Soil						
Blank (25J0828-BLK2)			Prepared: 10/23/25 11:59 Analyzed: 10/23/25 20:27									
<u>EPA 8270E</u>												
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 81 %		Limits: 39-132 %		Dilution: 1x						
LCS (25J0828-BS2)			Prepared: 10/23/25 11:59 Analyzed: 10/23/25 21:02									
<u>EPA 8270E</u>												
Pentachlorophenol (PCP)	449	53.2	107	ug/kg wet	4	533	---	84	25-133%	---	---	
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 100 %		Limits: 39-132 %		Dilution: 4x						
Duplicate (25J0828-DUP2)			Prepared: 10/23/25 11:59 Analyzed: 10/23/25 22:12									
<u>QC Source Sample: Non-SDG (A5J1670-01)</u>												
Pentachlorophenol (PCP)	ND	15.1	30.3	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 99 %		Limits: 39-132 %		Dilution: 1x						
Matrix Spike (25J0828-MS2)			Prepared: 10/23/25 11:59 Analyzed: 10/23/25 22:46									
<u>QC Source Sample: Non-SDG (A5J1670-01)</u>												
<u>EPA 8270E</u>												
Pentachlorophenol (PCP)	560	60.6	122	ug/kg dry	4	608	ND	92	25-133%	---	---	
Surr: 2,4,6-Tribromophenol (Surr)		Recovery: 96 %		Limits: 39-132 %		Dilution: 4x						

Apex Laboratories

Philip Nerenberg, Lab Director

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Portland, OR 97232Project: Stella-Jones Sheridan - 2025 On-Call.

Project Number: M0022.01.052

Project Manager: Cody Schweitzer

Report ID:

A5J1747 - 11 15 25 1505

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 25J1059 - EPA 3051A						Soil						
Blank (25J1059-BLK1)			Prepared: 10/30/25 08:49 Analyzed: 10/30/25 17:47									
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
LCS (25J1059-BS1)			Prepared: 10/30/25 08:49 Analyzed: 10/30/25 17:58									
EPA 6020B												
Arsenic	49.1	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Duplicate (25J1059-DUP1)			Prepared: 10/30/25 08:49 Analyzed: 10/30/25 18:09									
QC Source Sample: Non-SDG (A5J1711-06)												
Arsenic	2.05	---	1.24	mg/kg dry	10	---	2.35	---	---	13	20%	
Matrix Spike (25J1059-MS1)			Prepared: 10/30/25 08:49 Analyzed: 10/30/25 18:14									
QC Source Sample: Non-SDG (A5J1711-06)												
EPA 6020B												
Arsenic	60.0	---	1.14	mg/kg dry	10	57.1	2.35	101	75-125%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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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 25J0822 - Dry Weight Prep (EPA 8000D)						Soil						
Duplicate (25J0822-DUP1)			Prepared: 10/23/25 10:44 Analyzed: 10/24/25 08:38						CONT			
<u>QC Source Sample: Non-SDG (A5J1726-01)</u>												
% Solids	86.5	---	1.00	%	1	---	91.7	---	---	6	10%	
Duplicate (25J0822-DUP2)			Prepared: 10/23/25 10:44 Analyzed: 10/24/25 08:38						CONT			
<u>QC Source Sample: Non-SDG (A5J1727-01)</u>												
% Solids	79.0	---	1.00	%	1	---	79.6	---	---	0.8	10%	
Duplicate (25J0822-DUP3)			Prepared: 10/23/25 10:44 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1743-01)</u>												
% Solids	89.8	---	1.00	%	1	---	93.0	---	---	3	10%	
Duplicate (25J0822-DUP4)			Prepared: 10/23/25 10:44 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1749-01)</u>												
% Solids	89.6	---	1.00	%	1	---	92.5	---	---	3	10%	
Duplicate (25J0822-DUP5)			Prepared: 10/23/25 13:06 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1686-01)</u>												
% Solids	92.6	---	1.00	%	1	---	92.6	---	---	0.02	10%	
Duplicate (25J0822-DUP6)			Prepared: 10/23/25 13:06 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1770-01)</u>												
% Solids	91.0	---	1.00	%	1	---	91.0	---	---	0.05	10%	
Duplicate (25J0822-DUP7)			Prepared: 10/23/25 18:17 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1787-01)</u>												
% Solids	88.5	---	1.00	%	1	---	89.3	---	---	0.9	10%	
Duplicate (25J0822-DUP8)			Prepared: 10/23/25 18:34 Analyzed: 10/24/25 08:38									
<u>QC Source Sample: Non-SDG (A5J1796-02)</u>												
% Solids	81.3	---	1.00	%	1	---	80.6	---	---	0.9	10%	

Apex Laboratories

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

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3140 NE Broadway Street
Portland, OR 97232

Project: Stella-Jones Sheridan - 2025 On-Call.

Project Number: M0022.01.052

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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
---------	--------	--------------------	--------------------	-------	----------	-----------------	------------------	-------	-----------------	-----	--------------	-------

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: Stella-Jones Sheridan - 2025 On-Call.

Project Number: M0022.01.052

Project Manager: Cody Schweitzer

Report ID:

A5J1747 - 11 15 25 1505

SAMPLE PREPARATION INFORMATION

Pentachlorophenol by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 25J0828</u>							
A5J1747-01RE1	Soil	EPA 8270E	10/22/25 13:30	10/23/25 12:49	15.58g/2mL	15g/2mL	0.96

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: 25J1059</u>							
A5J1747-01	Soil	EPA 6020B	10/22/25 13:30	10/30/25 08:49	0.509g/50mL	0.5g/50mL	0.98

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: 25J0822</u>							
A5J1747-01	Soil	EPA 8000D	10/22/25 13:30	10/23/25 10:44	1g	1g	1.00

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- 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.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

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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).

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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 ½ 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.

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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.

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A5J1747 - 11 15 25 1505

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
--------	----------	--------	---------	--------	---------------

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

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Project: **Stella-Jones Sheridan - 2025 On-Call.**Project Number: **M0022.01.052**Project Manager: **Cody Schweitzer****Report ID:****A5J1747 - 11 15 25 1505****APEX LABS COOLER RECEIPT FORM**Client: Maul Foster & Alongi Element WO#: A5 J1747Project/Project #: Stella-Jones Sheridan | M0022.01.052**Delivery Info:**Date/time received: 10/22/25 @ 1717 By: KNDelivered by: Apex ☐ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 10/22/25 @ 1717 By: KNChain 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)	<u>4.6</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>IN</u>						

Cooler out of temp? (Y/☒) Possible reason why: _____Green dots applied to out of temperature samples? Yes/☒ NoOut of temperature samples form initiated? Yes/☒ No**Sample Inspection:** Date/time inspected: 10/22/25 @ 1737 By: JAAll 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: _____

Labeled by: JAWitness: KNCooler Inspected by: JA

Form Y-003 R-02 -

Apex Laboratories

Philip Nerenberg, Lab Director

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November 12, 2025

Mr. Philip Nerenberg
Apex Laboratories
6700 SW Sandburg Street
Tigard, Oregon 97223

Re: IDIQ DXN & PCB
Work Order: 24592
SDG: A5J1747

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 29, 2025. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,



Cynde Larkins
Project Manager

Enclosures

SUBCONTRACT ORDER

EST

Apex Laboratories

10/13/25

A5J1747

CFA WO # 24592

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Cape Fear Analytical, LLC
3306 Kitty Hawk Rd Suite 120
Wilmington, NC 28405
Phone : (910) 795-0421
Fax: -

Sample Name: Hydrant Repair-SP

Soil

Sampled: 10/22/25 13:30

(A5J1747-01)

Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB)	11/04/25 17:00	10/22/26 13:30	
Containers Supplied: (B)8 oz Glass Jar			

- Standard TAT -

Released By  Date 10/28/25
Fed Ex (Shipper)
Received By Cyndie Larkins Date 29 OCT 25 @ 1223
4.0°C @ CFA

SAMPLE RECEIPT CHECKLIST
Cape Fear Analytical

Client: APEX	Work Order: 24592
Shipping Company: FedEx	Date/Time Received: 29 OCT 25 1223

Suspected Hazard Information	Yes	NA	No	IR Gun used:	DOE Site Sample Packages	Yes	NA	No*
Shipped as DOT Hazardous?			☒	☒ 34290478WS	Screened <0.5 mR/hr?		☒	
Samples identified as Foreign Soil?			☒	☐ 58892402MV	Samples < 2x background?		☒	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			☒

Air Witness: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other(describe)
2 Custody seal/s present on cooler?			☒	Seal intact? Yes No
3 Chain of Custody documents included with shipment?	☒			
4 Samples requiring cold preservation within 0-6°C?	☒			Preservation Method: Temperature Blank present: ☒ Yes No ice bags loose ice blue ice dry ice none other (describe) 4.1° - 0.1 = 4.0°C
5 Aqueous samples found to have visible solids?		☒		Sample IDs, containers affected:
5 Samples requiring chemical preservation at proper pH?		☒		Sample IDs, containers affected and pH observed:
7 Samples requiring preservation have no residual chlorine?		☒		If preservative added, Lot#: Sample IDs, containers affected:
8 Samples received within holding time?	☒			If preservative added, Lot#: Sample IDs, tests affected:
9 Sample IDs on COC match IDs on containers?	☒			Sample IDs, containers affected:
10 Date & time of COC match date & time on containers?	☒			Sample IDs, containers affected:
11 Number of containers received match number indicated on COC?	☒			List type and number of containers / Sample IDs, containers affected: 1-8oz clear glass soil jar
12 COC form is properly signed in relinquished/received sections?	☒			

Comments:

Checklist performed by: Initials: **CJ**

Date: **29 OCT 25**

CF-UD-F-7

High Resolution Dioxins and Furans Analysis

Case Narrative

**HDOX Case Narrative
Apex Laboratories (APEX)
SDG A5J1747
Work Order 24592**

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Solids
Analytical Method: EPA Method 1613B
Extraction Method: SW846 3540C
Analytical Batch Number: 63671
Clean Up Batch Number: 63670
Extraction Batch Number: 63669

Sample Analysis

Sample 24592001 was received within temperature requirements at 4.0 °C.
The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12041028	Method Blank (MB)
12041029	Laboratory Control Sample (LCS)
12041030	Laboratory Control Sample Duplicate (LCSD)
24592001	Hydrant Repair-SP

The sample in this SDG was analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 22 and CF-OA-E-020 REV# 8.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information**Certification Statement**

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A sample of similar matrix, not associated with this SDG, was selected for analysis as the matrix spike and matrix spike duplicate.

Technical Information**Holding Time Specifications**

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Sample 24592001 (Hydrant Repair-SP)- Batch 63671 was diluted due to the presence of overrange target analytes.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

Sample Preparation

No difficulties were encountered during sample preparation.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP601_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A5J1747 CFA Work Order: 24592

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the specified detection limit.
- J Value is estimated
- E Value is estimated - Concentration of the target analyte exceeds the instrument calibration range
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- K Estimated Maximum Possible Concentration
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature:



Name: Erin Suhrie

Date: 12 NOV 2025

Title: Data Validator

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 1 of 2

SDG Number: A5J1747
Lab Sample ID:24592001
Client Sample: 1613B Soil
Client ID: Hydrant Repair-SP
Batch ID: 63671
Run Date: 11/07/2025 23:09
Data File: g07nov25d-9
Prep Batch: 63669
Prep Date: 03-NOV-25

Client: APEX001
Date Collected: 10/22/2025 13:30
Date Received: 10/29/2025 12:23

Method: EPA Method 1613B
Analyst: GM1

Prep Method: SW846 3540C
Prep Aliquot: 11.78 g

Project: APEX00122
Matrix: SOIL
%Moisture: 14.8

Prep Basis: Dry Weight

Instrument: HRP601
Dilution: 10

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	JK	1.79	pg/g	0.763	9.97
40321-76-4	1,2,3,7,8-PeCDD	J	19.4	pg/g	1.31	49.8
39227-28-6	1,2,3,4,7,8-HxCDD	J	38.5	pg/g	3.47	49.8
57653-85-7	1,2,3,6,7,8-HxCDD		166	pg/g	3.27	49.8
19408-74-3	1,2,3,7,8,9-HxCDD		90.9	pg/g	3.45	49.8
35822-46-9	1,2,3,4,6,7,8-HpCDD		4710	pg/g	20.1	49.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD	E	52000	pg/g	15.7	99.7
51207-31-9	2,3,7,8-TCDF	JK	1.56	pg/g	1.36	9.97
57117-41-6	1,2,3,7,8-PeCDF	J	6.75	pg/g	1.17	49.8
57117-31-4	2,3,4,7,8-PeCDF	J	16.2	pg/g	1.04	49.8
70648-26-9	1,2,3,4,7,8-HxCDF	J	36.5	pg/g	2.97	49.8
57117-44-9	1,2,3,6,7,8-HxCDF	J	20.8	pg/g	2.65	49.8
60851-34-5	2,3,4,6,7,8-HxCDF	J	33.7	pg/g	2.95	49.8
72918-21-9	1,2,3,7,8,9-HxCDF	J	13.3	pg/g	3.95	49.8
67562-39-4	1,2,3,4,6,7,8-HpCDF		780	pg/g	4.66	49.8
55673-89-7	1,2,3,4,7,8,9-HpCDF		54.7	pg/g	6.10	49.8
39001-02-0	1,2,3,4,6,7,8-OCDF		2420	pg/g	5.10	99.7
41903-57-5	Total TeCDD	JK	5.53	pg/g	0.763	
36088-22-9	Total PeCDD	JK	85.7	pg/g	1.31	
34465-46-8	Total HxCDD	J	908	pg/g	3.27	
37871-00-4	Total HpCDD		8880	pg/g	20.1	
30402-14-3	Total TeCDF	JK	12.9	pg/g	1.36	
30402-15-4	Total PeCDF	JK	199	pg/g	0.333	
55684-94-1	Total HxCDF	JK	928	pg/g	2.65	
38998-75-3	Total HpCDF	JK	2760	pg/g	4.66	
TEQ_D/F_0_M/TEQ WHO2005 ND=0 with EMPCs			138	pg/g		
TEQ_D/F_5_M/TEQ WHO2005 ND=0.5 with EMPCs			138	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		180	199	pg/g	90.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		205	199	pg/g	103	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		166	199	pg/g	83.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		165	199	pg/g	83.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		192	199	pg/g	96.2	(23%-140%)
13C-OCDD		433	399	pg/g	109	(17%-157%)
13C-2,3,7,8-TCDF		143	199	pg/g	71.5	(24%-169%)
13C-1,2,3,7,8-PeCDF		185	199	pg/g	92.7	(24%-185%)
13C-2,3,4,7,8-PeCDF		187	199	pg/g	93.8	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		139	199	pg/g	69.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		139	199	pg/g	69.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		146	199	pg/g	73.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		145	199	pg/g	72.8	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 2 of 2

SDG Number: A5J1747
Lab Sample ID: 24592001
Client Sample: 1613B Soil
Client ID: Hydrant Repair-SP
Batch ID: 63671
Run Date: 11/07/2025 23:09
Data File: g07nov25d-9
Prep Batch: 63669
Prep Date: 03-NOV-25

Client: APEX001
Date Collected: 10/22/2025 13:30
Date Received: 10/29/2025 12:23

Method: EPA Method 1613B
Analyst: GM1

Prep Method: SW846 3540C
Prep Aliquot: 11.78 g

Project: APEX00122
Matrix: SOIL
%Moisture: 14.8
Prep Basis: Dry Weight

Instrument: HRP601
Dilution: 10

CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF			139	199	pg/g	69.9	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF			154	199	pg/g	77.4	(26%-138%)
37Cl-2,3,7,8-TCDD			20.8	19.9	pg/g	104	(35%-197%)

Comments:

J Value is estimated
E Value is estimated - Concentration of the target analyte exceeds the instrument calibration range
K Estimated Maximum Possible Concentration

Quality Control Summary

Hi-Res Dioxins/Furans Surrogate Recovery Report

Page 1 of 2

SDG Number: A5J1747

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12041029	LCS for batch 63669	13C-2,3,7,8-TCDD		92.9	(20%-175%)
		13C-1,2,3,7,8-PeCDD		98.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		87.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		74.2	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		83.8	(22%-166%)
		13C-OCDD		83.2	(13%-199%)
		13C-2,3,7,8-TCDF		72.4	(22%-152%)
		13C-1,2,3,7,8-PeCDF		90.3	(21%-192%)
		13C-2,3,4,7,8-PeCDF		91.3	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		71.9	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		65.5	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		69.7	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		72.8	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		66.2	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		73.5	(20%-186%)
		37Cl-2,3,7,8-TCDD		104	(31%-191%)
12041030	LCSD for batch 63669	13C-2,3,7,8-TCDD		93.8	(20%-175%)
		13C-1,2,3,7,8-PeCDD		100	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		84.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		75.1	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		82.8	(22%-166%)
		13C-OCDD		82.9	(13%-199%)
		13C-2,3,7,8-TCDF		73.9	(22%-152%)
		13C-1,2,3,7,8-PeCDF		90.8	(21%-192%)
		13C-2,3,4,7,8-PeCDF		93.6	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		71.5	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		64.6	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		70.5	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		72.5	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		65.3	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		73.6	(20%-186%)
		37Cl-2,3,7,8-TCDD		106	(31%-191%)
12041028	MB for batch 63669	13C-2,3,7,8-TCDD		88.6	(25%-164%)
		13C-1,2,3,7,8-PeCDD		95.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		82.9	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		70.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		80.9	(23%-140%)
		13C-OCDD		81.6	(17%-157%)
		13C-2,3,7,8-TCDF		71.1	(24%-169%)
		13C-1,2,3,7,8-PeCDF		86.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		89.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		69.2	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		60.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		68.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		69.3	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		64.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		70.9	(26%-138%)
		37Cl-2,3,7,8-TCDD		100	(35%-197%)
24592001	Hydrant Repair-SP	13C-2,3,7,8-TCDD		90.5	D (25%-164%)

**Hi-Res Dioxins/Furans
Surrogate Recovery Report**

Page 2 of 2

SDG Number: A5J1747

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
24592001	Hydrant Repair-SP	13C-1,2,3,7,8-PeCDD		103 D	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		83.5 D	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		83.0 D	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		96.2 D	(23%-140%)
		13C-OCDD		109 D	(17%-157%)
		13C-2,3,7,8-TCDF		71.5 D	(24%-169%)
		13C-1,2,3,7,8-PeCDF		92.7 D	(24%-185%)
		13C-2,3,4,7,8-PeCDF		93.8 D	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		69.9 D	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		69.7 D	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		73.1 D	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.8 D	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		69.9 D	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		77.4 D	(26%-138%)
		37Cl-2,3,7,8-TCDD		104 D	(35%-197%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

Page 1 of 2

SDG Number: A5J1747
Client ID: LCS for batch 63669
Lab Sample ID: 12041029
Instrument: HRP601
Analyst: GM1

Sample Type: Laboratory Control Sample
Matrix: SOIL
Analysis Date: 11/05/2025 17:13
Prep Batch ID: 63669
Dilution: 1
Batch ID: 63671

CAS No.	Parmname	Amount	Spike	Recovery Acceptance	
		Added	Conc.		Limits
		pg/g	pg/g	%	
1746-01-6	LCS 2,3,7,8-TCDD	20.0	16.8	83.9	67-158
40321-76-4	LCS 1,2,3,7,8-PeCDD	100	103	103	70-142
39227-28-6	LCS 1,2,3,4,7,8-HxCDD	100	97.7	97.7	70-164
57653-85-7	LCS 1,2,3,6,7,8-HxCDD	100	97.7	97.7	76-134
19408-74-3	LCS 1,2,3,7,8,9-HxCDD	100	102	102	64-162
35822-46-9	LCS 1,2,3,4,6,7,8-HpCDD	100	105	105	70-140
3268-87-9	LCS 1,2,3,4,6,7,8,9-OCDD	200	202	101	78-144
51207-31-9	LCS 2,3,7,8-TCDF	20.0	21.0	105	75-158
57117-41-6	LCS 1,2,3,7,8-PeCDF	100	107	107	80-134
57117-31-4	LCS 2,3,4,7,8-PeCDF	100	105	105	68-160
70648-26-9	LCS 1,2,3,4,7,8-HxCDF	100	109	109	72-134
57117-44-9	LCS 1,2,3,6,7,8-HxCDF	100	107	107	84-130
60851-34-5	LCS 2,3,4,6,7,8-HxCDF	100	108	108	70-156
72918-21-9	LCS 1,2,3,7,8,9-HxCDF	100	110	110	78-130
67562-39-4	LCS 1,2,3,4,6,7,8-HpCDF	100	115	115	82-122
55673-89-7	LCS 1,2,3,4,7,8,9-HpCDF	100	115	115	78-138
39001-02-0	LCS 1,2,3,4,6,7,8,9-OCDF	200	197	98.3	63-170

Hi-Res Dioxins/Furans
Quality Control Summary
Spike Recovery Report

Page 2 of 2

SDG Number: A5J1747

Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 63669

Matrix: SOIL

Lab Sample ID: 12041030

Instrument: HRP601

Analysis Date: 11/05/2025 18:03

Dilution: 1

Analyst: GM1

Prep Batch ID: 63669

Batch ID: 63671

CAS No.	Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD 2,3,7,8-TCDD	20.0	17.7	88.4	67-158	5.21	0-20
40321-76-4	LCSD 1,2,3,7,8-PeCDD	100	104	104	70-142	1.48	0-20
39227-28-6	LCSD 1,2,3,4,7,8-HxCDD	100	101	101	70-164	3.72	0-20
57653-85-7	LCSD 1,2,3,6,7,8-HxCDD	100	101	101	76-134	3.16	0-20
19408-74-3	LCSD 1,2,3,7,8,9-HxCDD	100	107	107	64-162	4.33	0-20
35822-46-9	LCSD 1,2,3,4,6,7,8-HpCDD	100	109	109	70-140	3.25	0-20
3268-87-9	LCSD 1,2,3,4,6,7,8,9-OCDD	200	203	101	78-144	0.129	0-20
51207-31-9	LCSD 2,3,7,8-TCDF	20.0	20.9	105	75-158	0.286	0-20
57117-41-6	LCSD 1,2,3,7,8-PeCDF	100	108	108	80-134	1.08	0-20
57117-31-4	LCSD 2,3,4,7,8-PeCDF	100	106	106	68-160	1.35	0-20
70648-26-9	LCSD 1,2,3,4,7,8-HxCDF	100	109	109	72-134	0.287	0-20
57117-44-9	LCSD 1,2,3,6,7,8-HxCDF	100	112	112	84-130	4.97	0-20
60851-34-5	LCSD 2,3,4,6,7,8-HxCDF	100	111	111	70-156	2.61	0-20
72918-21-9	LCSD 1,2,3,7,8,9-HxCDF	100	111	111	78-130	1.65	0-20
67562-39-4	LCSD 1,2,3,4,6,7,8-HpCDF	100	116	116	82-122	0.761	0-20
55673-89-7	LCSD 1,2,3,4,7,8,9-HpCDF	100	118	118	78-138	2.80	0-20
39001-02-0	LCSD 1,2,3,4,6,7,8,9-OCDF	200	196	97.8	63-170	0.555	0-20

Method Blank Summary

Page 1 of 1

SDG Number: A5J1747
Client ID: MB for batch 63669
Lab Sample ID: 12041028
Column:

Client: APEX001
Instrument ID: HRP601
Prep Date: 03-NOV-25

Matrix: SOIL
Data File: g05nov25c-4
Analyzed: 11/05/25 18:53

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 63669	12041029	g05nov25c-2	11/05/25	1713
02 LCSD for batch 63669	12041030	g05nov25c-3	11/05/25	1803
03 Hydrant Repair-SP	24592001	g07nov25d-9	11/07/25	2309

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary						
SDG Number: A5J1747 Lab Sample ID:12041028 Client Sample: QC for batch 63669 Client ID: MB for batch 63669 Batch ID: 63671 Run Date: 11/05/2025 18:53 Data File: g05nov25c-4 Prep Batch: 63669 Prep Date: 03-NOV-25			Client: APEX001		Project: APEX00122 Matrix: SOIL Prep Basis: As Received	
			Method: EPA Method 1613B Analyst: GM1		Instrument: HRP601 Dilution: 1	
			Prep Method: SW846 3540C Prep Aliquot: 10 g			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.127	pg/g	0.127	1.00
40321-76-4	1,2,3,7,8-PeCDD	U	0.166	pg/g	0.166	5.00
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.222	pg/g	0.163	5.00
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.222	pg/g	0.161	5.00
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.312	pg/g	0.166	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.408	pg/g	0.200	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD	J	1.12	pg/g	0.260	10.0
51207-31-9	2,3,7,8-TCDF	U	0.252	pg/g	0.252	1.00
57117-41-6	1,2,3,7,8-PeCDF	JK	0.278	pg/g	0.185	5.00
57117-31-4	2,3,4,7,8-PeCDF	J	0.188	pg/g	0.174	5.00
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.200	pg/g	0.200	5.00
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.210	pg/g	0.208	5.00
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.234	pg/g	0.208	5.00
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.302	pg/g	0.268	5.00
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.484	pg/g	0.197	5.00
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.346	pg/g	0.270	5.00
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	1.00	pg/g	0.424	10.0
41903-57-5	Total TeCDD	U	0.127	pg/g	0.127	
36088-22-9	Total PeCDD	U	0.166	pg/g	0.166	
34465-46-8	Total HxCDD	JK	0.756	pg/g	0.161	
37871-00-4	Total HpCDD	J	0.408	pg/g	0.200	
30402-14-3	Total TeCDF	U	0.252	pg/g	0.252	
30402-15-4	Total PeCDF	JK	0.466	pg/g	0.0894	
55684-94-1	Total HxCDF	JK	0.746	pg/g	0.200	
38998-75-3	Total HpCDF	JK	0.830	pg/g	0.197	
TEQ_D/F_0_M/TEQ WHO2005 ND=0 with EMPCs			0.228	pg/g		
TEQ_D/F_5_M/TEQ WHO2005 ND=0.5 with EMPCs			0.397	pg/g		
Surrogate/Tracer recovery						
Qual	Result	Nominal	Units	Recovery%	Acceptable Limits	
	177	200	pg/g	88.6	(25%-164%)	
	191	200	pg/g	95.7	(25%-181%)	
	166	200	pg/g	82.9	(32%-141%)	
	142	200	pg/g	70.9	(28%-130%)	
	162	200	pg/g	80.9	(23%-140%)	
	327	400	pg/g	81.6	(17%-157%)	
	142	200	pg/g	71.1	(24%-169%)	
	174	200	pg/g	86.8	(24%-185%)	
	179	200	pg/g	89.5	(21%-178%)	
	138	200	pg/g	69.2	(26%-152%)	
	122	200	pg/g	60.9	(26%-123%)	
	136	200	pg/g	68.2	(28%-136%)	
	139	200	pg/g	69.3	(29%-147%)	

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

Page 2 of 2

SDG Number: A5J1747
Lab Sample ID:12041028
Client Sample: QC for batch 63669
Client ID: MB for batch 63669
Batch ID: 63671
Run Date: 11/05/2025 18:53
Data File: g05nov25c-4
Prep Batch: 63669
Prep Date: 03-NOV-25

Client: APEX001

Method: EPA Method 1613B
Analyst: GM1

Prep Method: SW846 3540C
Prep Aliquot: 10 g

Project: APEX00122
Matrix: SOIL

Prep Basis: As Received

Instrument: HRP601
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF			128	200	pg/g	64.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF			142	200	pg/g	70.9	(26%-138%)
37Cl-2,3,7,8-TCDD			20.1	20.0	pg/g	100	(35%-197%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

J Value is estimated

K Estimated Maximum Possible Concentration

Attachment C

SMPP Figure 1: Soil Profile Decision Tree



MAUL
FOSTER
ALONGI

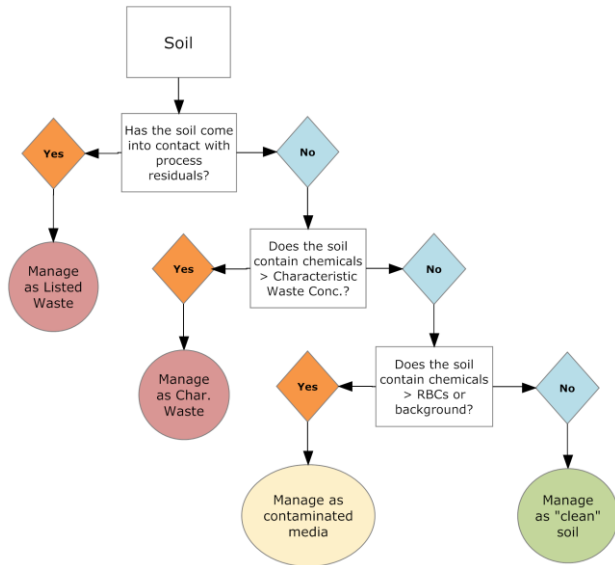


Figure 1: Soil Profile Decision Tree