



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Initial (Twenty Day) Report Form for UST Cleanup Projects

This report is due twenty (20) days from the date of the release.

DEQ USTC File No. _____

DEQ Facility ID No. _____

Site Name: _____

Site Address: _____

INITIAL CLEANUP INFORMATION

(1) Type of contamination (check ☒ all that apply):

☐ Gasoline ☐ Diesel ☐ Waste Oil ☐ Heating Oil
☐ Other (specify) _____

(2) Estimate quantity of release (based on information known to date – ● select only one):

☐ <100 gal. ☐ 100-499 gal. ☐ 500-999 gal. ☐ 1,000-5,000 gal. ☐ >5,000 gal.

SITE INFORMATION (check ☒ yes or ☒ no)

(3) ☐ Y ☐ N Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface: _____

(4) ☐ Y ☐ N Was a sheen or odor observed on any water in the excavation?

Note: If groundwater is encountered, soil samples from the soil/water interface must be collected and analyzed for BTEX and by the appropriate TPH method.

At sites where diesel or other non-gasoline products have been released, the water may also have to be screened or tested for polynuclear aromatic hydrocarbons (PAHs). *Please refer to OAR 340-122-0218.*

(5) ☐ Y ☐ N Was water pumped from the excavation?

☐ Y ☐ N If yes, did groundwater recharge within 24 hours after pumping?

Please describe the pumping procedure and disposal option selected for the purged excavation water:

(6) ☐ Y ☐ N Were any water samples collected from the excavation? If yes, please describe:

(7) ☐ Y ☐ N Have any soil and/or water sample results been received at this time?

If so, please attach any lab reports.

IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW.

IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8) What are the known uses of groundwater within a 500-foot radius of the release site (check ☒ all that apply)?

☐ non-use ☐ industrial ☐ agricultural ☐ drinking supply

(9) If groundwater in this area is being used as a drinking water supply, please check ☒ the type and size of population served by the supply:

☐ Community (community well used for drinking water year round – • select only one)

size: <1,000 people 1,000 - 5,000 people >5,000 people

☐ Intermittent use (public water used for drinking water only on a part-time basis – • select only one)

size: <50 people 50 - 300 people > 300 people

☐ Private wells (individual private well or wells used for drinking water – • select only one)

size: <10 people 10 - 25 people >25 people

(10) ☐ Y ☐ N Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:

☐ bottled water is the only alternative

☐ on-site water treatment; bulk water delivery; new wells are available

☐ able to connect to existing water supply

☐ do not know what alternatives would be available

(11) ☐ Y ☐ N Are/were vapors present in on-site or nearby buildings? If yes:

A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain: _____

B. Estimate the number of people potentially affected by vapors – • select only one:

1-2 people 3-10 people >10 people

(12) ☐ Y ☐ N Are vapors or is petroleum contamination present in the utility corridors?

If yes, please explain: _____

(13) ☐ Y ☐ N Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, etc.) and proximity: _____

(14) ☐ Y ☐ N If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA/SITE CONDITIONS:

- (15) Mean annual rainfall: <20 inches 20-45 inches >45 inches
- (16) Soil type(s) of the naturally occurring soils, not the backfill around the tank – • select only one:
- clays, compact tills, shales, and unfractured metamorphic and igneous rocks
- sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock
- fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites

SOIL MANAGEMENT

- (17) If soil sample results have been received:
 ___ Y ___ N Will the level of contamination detected require removal of contaminated soil for treatment or disposal?
- (18) All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. If you haven't done this, please explain why:
- _____
- _____
- _____
- _____

Note: It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days without a DEQ Solid Waste Letter Authorization (SWLA) Permit.

- (19) If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin: _____
- (20) Estimated volume of contaminated soil (specify tons or cubic yards): _____
- (21) Intended disposition of soils (please • select only one):

On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.

Thermal treatment off-site at an authorized facility.

Facility name: _____

Landfill disposal.

Name of Landfill: _____

Note: Please attach additional information as necessary to explain any unusual circumstances associated with this project.

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

- 1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.
- 2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

THIS REPORT WAS PREPARED BY:

Individual: _____ Date: _____
Company: _____ Phone: _____
Address: _____

City: _____ State _____ Zip _____

**1. Please return this form to the regional office in which the site is located.
If you have questions, call the contact person in your regional office.**

**2. For all tanks, except heating oil tanks, you must submit an *UST Decommissioning Checklist and Site Assessment Report* to the appropriate regional office
within 30 days of the UST decommissioning.**

**Failure to do so can result in delays to your project and
may result in continued billing for the annual tank permit fees.**

**3. Addresses and phone numbers for the regional offices can be found in the
UST Cleanup Manual or viewed and downloaded from this DEQ Webpage:
<http://www.deq.state.or.us/about/locations.htm>**

**4. Copies of the *UST Cleanup Manual* and other UST program forms and checklists
can be viewed and downloaded from DEQ's Website:
<http://www.deq.state.or.us/lq/tanks/ust/index.htm>**

or in the Portland area by calling Steve Paiko at 503-229-6652

**or outside the Portland area leaving a message on the
UST Help Line (toll-free in Oregon) at 1-800-742-7878**

KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Monday, September 18, 2023

Chris Sheridan
HydroCon LLC
3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

RE: A3I1065 - Hillsboro Airport - 10024-017.00

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 A3I1065, which was received by the laboratory on 9/13/2023 at 4:24:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@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	9.7	degC

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

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.

Cameron O'Brien, Project Manager

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

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T1-SW-13.5	A3I1065-01	Soil	09/13/23 14:15	09/13/23 16:24
T1-NW-13.5	A3I1065-02	Soil	09/13/23 14:20	09/13/23 16:24
T2-SE-13.5	A3I1065-03	Soil	09/13/23 14:50	09/13/23 16:24
T2-NE-13.5	A3I1065-04	Soil	09/13/23 14:55	09/13/23 16:24
Piping-1	A3I1065-05	Soil	09/13/23 14:25	09/13/23 16:24
Disp-1	A3I1065-06	Soil	09/13/23 14:30	09/13/23 16:24
Disp-2-2.5	A3I1065-07	Soil	09/13/23 14:35	09/13/23 16:24
Disp-3-2.5	A3I1065-08	Soil	09/13/23 14:40	09/13/23 16:24

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Project Manager: Chris Sheridan

Report ID:

A3I1065 - 09 18 23 1521

ANALYTICAL CASE NARRATIVE

Work Order: A3I1065

Amended Report Revision 1

This report supersedes all previous reports.

The Final Report has been amended to include 8270 SIM PAH results for sample Disp-3-2.5 (Apex Lab WO A3I1065-08).

Cameron O'Brien

Project Manager

9/15/23

Apex Laboratories

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Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-SW-13.5 (A3I1065-01)				Matrix: Soil		Batch: 23I0407		
Diesel	ND	---	26.8	mg/kg dry	1	09/15/23 02:10	NWTPH-Dx	
Oil	ND	---	53.5	mg/kg dry	1	09/15/23 02:10	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %	1	09/15/23 02:10	NWTPH-Dx	
T1-NW-13.5 (A3I1065-02)				Matrix: Soil		Batch: 23I0407		
Diesel	ND	---	26.5	mg/kg dry	1	09/15/23 02:30	NWTPH-Dx	
Oil	ND	---	52.9	mg/kg dry	1	09/15/23 02:30	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %	1	09/15/23 02:30	NWTPH-Dx	
T2-SE-13.5 (A3I1065-03)				Matrix: Soil		Batch: 23I0407		
Diesel	ND	---	20.3	mg/kg dry	1	09/15/23 02:51	NWTPH-Dx	
Oil	ND	---	40.5	mg/kg dry	1	09/15/23 02:51	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %	1	09/15/23 02:51	NWTPH-Dx	
T2-NE-13.5 (A3I1065-04)				Matrix: Soil		Batch: 23I0407		
Diesel	ND	---	25.9	mg/kg dry	1	09/15/23 03:12	NWTPH-Dx	
Oil	ND	---	51.8	mg/kg dry	1	09/15/23 03:12	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %	1	09/15/23 03:12	NWTPH-Dx	
Piping-1 (A3I1065-05)				Matrix: Soil		Batch: 23I0407		
Diesel	ND	---	25.4	mg/kg dry	1	09/15/23 03:33	NWTPH-Dx	
Oil	ND	---	50.7	mg/kg dry	1	09/15/23 03:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %	1	09/15/23 03:33	NWTPH-Dx	
Disp-1 (A3I1065-06RE1)				Matrix: Soil		Batch: 23I0397		
Diesel	90.7	---	20.5	mg/kg dry	1	09/14/23 10:11	NWTPH-Dx	F-13
Oil	41.1	---	41.0	mg/kg dry	1	09/14/23 10:11	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 69 %		Limits: 50-150 %	1	09/14/23 10:11	NWTPH-Dx	
Disp-2-2.5 (A3I1065-07)				Matrix: Soil		Batch: 23I0397		
Diesel	ND	---	25.8	mg/kg dry	1	09/14/23 00:10	NWTPH-Dx	
Oil	ND	---	51.6	mg/kg dry	1	09/14/23 00:10	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 52 %		Limits: 50-150 %	1	09/14/23 00:10	NWTPH-Dx	
Disp-3-2.5 (A3I1065-08)				Matrix: Soil		Batch: 23I0397		

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Cameron O'Brien, Project Manager



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3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Disp-3-2.5 (A3I1065-08)				Matrix: Soil		Batch: 23I0397		
Diesel	1730	---	25.1	mg/kg dry	1	09/14/23 00:31	NWTPH-Dx	F-13
Oil	ND	---	50.2	mg/kg dry	1	09/14/23 00:31	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 69 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>09/14/23 00:31</i>	<i>NWTPH-Dx</i>	

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-SW-13.5 (A3I1065-01)		Matrix: Soil		Batch: 23I0427				
Benzene	ND	---	0.0157	mg/kg dry	50	09/14/23 16:32	5035A/8260D	
Toluene	ND	---	0.0783	mg/kg dry	50	09/14/23 16:32	5035A/8260D	
Ethylbenzene	ND	---	0.0391	mg/kg dry	50	09/14/23 16:32	5035A/8260D	
Xylenes, total	ND	---	0.117	mg/kg dry	50	09/14/23 16:32	5035A/8260D	
Naphthalene	ND	---	0.157	mg/kg dry	50	09/14/23 16:32	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	99 %	<i>Limits:</i>	80-120 %	1	09/14/23 16:32	5035A/8260D
<i>Toluene-d8 (Surr)</i>			99 %		80-120 %	1	09/14/23 16:32	5035A/8260D
<i>4-Bromofluorobenzene (Surr)</i>			100 %		79-120 %	1	09/14/23 16:32	5035A/8260D
T1-NW-13.5 (A3I1065-02)		Matrix: Soil		Batch: 23I0427				
Benzene	ND	---	0.0124	mg/kg dry	50	09/14/23 17:24	5035A/8260D	
Toluene	ND	---	0.0620	mg/kg dry	50	09/14/23 17:24	5035A/8260D	
Ethylbenzene	ND	---	0.0310	mg/kg dry	50	09/14/23 17:24	5035A/8260D	
Xylenes, total	ND	---	0.0930	mg/kg dry	50	09/14/23 17:24	5035A/8260D	
Naphthalene	ND	---	0.124	mg/kg dry	50	09/14/23 17:24	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	99 %	<i>Limits:</i>	80-120 %	1	09/14/23 17:24	5035A/8260D
<i>Toluene-d8 (Surr)</i>			99 %		80-120 %	1	09/14/23 17:24	5035A/8260D
<i>4-Bromofluorobenzene (Surr)</i>			100 %		79-120 %	1	09/14/23 17:24	5035A/8260D
T2-SE-13.5 (A3I1065-03)		Matrix: Soil		Batch: 23I0427				
Benzene	ND	---	0.0120	mg/kg dry	50	09/14/23 17:50	5035A/8260D	
Toluene	ND	---	0.0600	mg/kg dry	50	09/14/23 17:50	5035A/8260D	
Ethylbenzene	ND	---	0.0300	mg/kg dry	50	09/14/23 17:50	5035A/8260D	
Xylenes, total	ND	---	0.0900	mg/kg dry	50	09/14/23 17:50	5035A/8260D	
Naphthalene	ND	---	0.120	mg/kg dry	50	09/14/23 17:50	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	99 %	<i>Limits:</i>	80-120 %	1	09/14/23 17:50	5035A/8260D
<i>Toluene-d8 (Surr)</i>			100 %		80-120 %	1	09/14/23 17:50	5035A/8260D
<i>4-Bromofluorobenzene (Surr)</i>			98 %		79-120 %	1	09/14/23 17:50	5035A/8260D
T2-NE-13.5 (A3I1065-04)		Matrix: Soil		Batch: 23I0427				
Benzene	ND	---	0.0121	mg/kg dry	50	09/14/23 18:16	5035A/8260D	
Toluene	ND	---	0.0603	mg/kg dry	50	09/14/23 18:16	5035A/8260D	
Ethylbenzene	ND	---	0.0301	mg/kg dry	50	09/14/23 18:16	5035A/8260D	
Xylenes, total	ND	---	0.0904	mg/kg dry	50	09/14/23 18:16	5035A/8260D	
Naphthalene	ND	---	0.121	mg/kg dry	50	09/14/23 18:16	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	100 %	<i>Limits:</i>	80-120 %	1	09/14/23 18:16	5035A/8260D

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

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503-718-2323

ORELAP ID: OR100062

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3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T2-NE-13.5 (A3I1065-04)				Matrix: Soil		Batch: 2310427		
Surrogate: Toluene-d8 (Surr)			Recovery: 99 %	Limits: 80-120 %	1	09/14/23 18:16	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/14/23 18:16	5035A/8260D	
Piping-1 (A3I1065-05)				Matrix: Soil		Batch: 2310427		
Benzene	ND	---	0.0128	mg/kg dry	50	09/14/23 18:41	5035A/8260D	
Toluene	ND	---	0.0641	mg/kg dry	50	09/14/23 18:41	5035A/8260D	
Ethylbenzene	ND	---	0.0320	mg/kg dry	50	09/14/23 18:41	5035A/8260D	
Xylenes, total	ND	---	0.0961	mg/kg dry	50	09/14/23 18:41	5035A/8260D	
Naphthalene	ND	---	0.128	mg/kg dry	50	09/14/23 18:41	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			Recovery: 99 %	Limits: 80-120 %	1	09/14/23 18:41	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/14/23 18:41	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/14/23 18:41	5035A/8260D	
Disp-1 (A3I1065-06)				Matrix: Soil		Batch: 2310427		
Benzene	ND	---	0.00766	mg/kg dry	50	09/14/23 19:07	5035A/8260D	
Toluene	ND	---	0.0383	mg/kg dry	50	09/14/23 19:07	5035A/8260D	
Ethylbenzene	ND	---	0.0191	mg/kg dry	50	09/14/23 19:07	5035A/8260D	
Xylenes, total	0.0831	---	0.0574	mg/kg dry	50	09/14/23 19:07	5035A/8260D	
Naphthalene	0.0969	---	0.0766	mg/kg dry	50	09/14/23 19:07	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			Recovery: 99 %	Limits: 80-120 %	1	09/14/23 19:07	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/14/23 19:07	5035A/8260D	
4-Bromofluorobenzene (Surr)			98 %	79-120 %	1	09/14/23 19:07	5035A/8260D	
Disp-2-2.5 (A3I1065-07)				Matrix: Soil		Batch: 2310427		
Benzene	ND	---	0.0154	mg/kg dry	50	09/14/23 19:33	5035A/8260D	
Toluene	ND	---	0.0768	mg/kg dry	50	09/14/23 19:33	5035A/8260D	
Ethylbenzene	0.0561	---	0.0384	mg/kg dry	50	09/14/23 19:33	5035A/8260D	
Xylenes, total	0.429	---	0.115	mg/kg dry	50	09/14/23 19:33	5035A/8260D	
Naphthalene	ND	---	0.154	mg/kg dry	50	09/14/23 19:33	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			Recovery: 99 %	Limits: 80-120 %	1	09/14/23 19:33	5035A/8260D	
Toluene-d8 (Surr)			98 %	80-120 %	1	09/14/23 19:33	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	09/14/23 19:33	5035A/8260D	
Disp-3-2.5 (A3I1065-08)				Matrix: Soil		Batch: 2310427		
Benzene	0.176	---	0.136	mg/kg dry	500	09/14/23 19:59	5035A/8260D	
Toluene	3.49	---	0.679	mg/kg dry	500	09/14/23 19:59	5035A/8260D	
Ethylbenzene	3.14	---	0.339	mg/kg dry	500	09/14/23 19:59	5035A/8260D	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Disp-3-2.5 (A3I1065-08)				Matrix: Soil		Batch: 23I0427		
Xylenes, total	20.8	---	1.02	mg/kg dry	500	09/14/23 19:59	5035A/8260D	
Naphthalene	4.33	---	1.36	mg/kg dry	500	09/14/23 19:59	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 99 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/14/23 19:59</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>09/14/23 19:59</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>79-120 %</i>	<i>1</i>	<i>09/14/23 19:59</i>	<i>5035A/8260D</i>	

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Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
Disp-3-2.5 (A3I1065-08)			Matrix: Soil		Batch: 23I0457				
Acenaphthene	ND	---	0.0720	mg/kg dry	10	09/15/23 19:40	EPA 8270E	R-02	
Acenaphthylene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Anthracene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Benz(a)anthracene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Benzo(a)pyrene	ND	---	0.0524	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Benzo(b)fluoranthene	ND	---	0.0524	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Benzo(k)fluoranthene	ND	---	0.0524	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Benzo(g,h,i)perylene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Chrysene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Dibenz(a,h)anthracene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Fluoranthene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Fluorene	0.0908	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Indeno(1,2,3-cd)pyrene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Phenanthrene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Pyrene	ND	---	0.0350	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Carbazole	ND	---	0.0524	mg/kg dry	10	09/15/23 19:40	EPA 8270E		
Dibenzofuran	ND	---	0.0812	mg/kg dry	10	09/15/23 19:40	EPA 8270E	R-02	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery:	292 %	Limits:	37-122 %	10	09/15/23 19:40	EPA 8270E	S-06
2-Fluorobiphenyl (Surr)			67 %		44-120 %	10	09/15/23 19:40	EPA 8270E	
Phenol-d6 (Surr)			73 %		33-122 %	10	09/15/23 19:40	EPA 8270E	
p-Terphenyl-d14 (Surr)			71 %		54-127 %	10	09/15/23 19:40	EPA 8270E	
2-Fluorophenol (Surr)			75 %		35-120 %	10	09/15/23 19:40	EPA 8270E	
2,4,6-Tribromophenol (Surr)			58 %		39-132 %	10	09/15/23 19:40	EPA 8270E	
Disp-3-2.5 (A3I1065-08RE1)			Matrix: Soil		Batch: 23I0457				
1-Methylnaphthalene	3.05	---	0.698	mg/kg dry	100	09/18/23 13:50	EPA 8270E		
2-Methylnaphthalene	4.44	---	0.698	mg/kg dry	100	09/18/23 13:50	EPA 8270E		
Naphthalene	2.21	---	0.698	mg/kg dry	100	09/18/23 13:50	EPA 8270E		

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ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-SW-13.5 (A3I1065-01)				Matrix: Soil		Batch: 23I0426		
% Solids	73.8	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
T1-NW-13.5 (A3I1065-02)				Matrix: Soil		Batch: 23I0426		
% Solids	75.2	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
T2-SE-13.5 (A3I1065-03)				Matrix: Soil		Batch: 23I0426		
% Solids	95.2	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
T2-NE-13.5 (A3I1065-04)				Matrix: Soil		Batch: 23I0426		
% Solids	75.1	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
Piping-1 (A3I1065-05)				Matrix: Soil		Batch: 23I0426		
% Solids	76.2	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
Disp-1 (A3I1065-06)				Matrix: Soil		Batch: 23I0369		
% Solids	94.1	---	1.00	%	1	09/14/23 05:25	EPA 8000D	
Disp-2-2.5 (A3I1065-07)				Matrix: Soil		Batch: 23I0369		
% Solids	71.6	---	1.00	%	1	09/14/23 05:25	EPA 8000D	
Disp-3-2.5 (A3I1065-08)				Matrix: Soil		Batch: 23I0369		
% Solids	74.8	---	1.00	%	1	09/14/23 05:25	EPA 8000D	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0397 - EPA 3546 (Fuels)						Soil						
Blank (23I0397-BLK1)		Prepared: 09/13/23 16:17 Analyzed: 09/13/23 21:07										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
LCS (23I0397-BS1)		Prepared: 09/13/23 16:17 Analyzed: 09/13/23 21:27										
NWTPH-Dx												
Diesel	117	---	20.0	mg/kg wet	1	125	---	93	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						

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

Batch 23I0407 - EPA 3546 (Fuels)						Soil					
Blank (23I0407-BLK1)			Prepared: 09/14/23 07:06 Analyzed: 09/14/23 22:01								
NWTPH-Dx											
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---
Surr: o-Terphenyl (Surr)			Recovery: 96 %			Limits: 50-150 %			Dilution: 1x		
LCS (23I0407-BS1)			Prepared: 09/14/23 07:06 Analyzed: 09/14/23 22:21								
NWTPH-Dx											
Diesel	110	---	20.0	mg/kg wet	1	125	---	88	38 - 132%	---	---
Surr: o-Terphenyl (Surr)			Recovery: 100 %			Limits: 50-150 %			Dilution: 1x		

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

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3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A311065 - 09 18 23 1521**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310427 - EPA 5035A												
Soil												
Blank (2310427-BLK1)												
Prepared: 09/14/23 11:48 Analyzed: 09/14/23 13:06												
<u>5035A/8260D</u>												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 99 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 79-120 % "</i>												
LCS (2310427-BS1)												
Prepared: 09/14/23 11:48 Analyzed: 09/14/23 12:10												
<u>5035A/8260D</u>												
Benzene	1.01	---	0.0100	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
Toluene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Ethylbenzene	0.990	---	0.0250	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
Xylenes, total	2.98	---	0.0750	mg/kg wet	50	3.00	---	100	80 - 120%	---	---	
Naphthalene	0.923	---	0.100	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 99 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>104 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>95 % 79-120 % "</i>												
Duplicate (2310427-DUP1)												
Prepared: 09/13/23 14:15 Analyzed: 09/14/23 16:58												
<u>QC Source Sample: T1-SW-13.5 (A311065-01)</u>												
<u>5035A/8260D</u>												
Benzene	ND	---	0.0157	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0783	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0391	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	0.117	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.157	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 99 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>99 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>101 % 79-120 % "</i>												

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Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0457 - EPA 3546						Soil						
Blank (23I0457-BLK1)		Prepared: 09/15/23 06:44 Analyzed: 09/15/23 13:20										
EPA 8270E												
Acenaphthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00533	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	---	0.00400	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		Recovery:		82 %	Limits:		37-122 %	Dilution:		1x		
2-Fluorobiphenyl (Surr)				83 %			44-120 %			"		
Phenol-d6 (Surr)				81 %			33-122 %			"		
p-Terphenyl-d14 (Surr)				89 %			54-127 %			"		
2-Fluorophenol (Surr)				84 %			35-120 %			"		
2,4,6-Tribromophenol (Surr)				88 %			39-132 %			"		

LCS (23I0457-BS1)

Prepared: 09/15/23 06:44 Analyzed: 09/15/23 13:54

EPA 8270E

Acenaphthene	0.481	---	0.0107	mg/kg wet	4	0.533	---	90	40 - 123%	---	---
Acenaphthylene	0.459	---	0.0107	mg/kg wet	4	0.533	---	86	32 - 132%	---	---
Anthracene	0.486	---	0.0107	mg/kg wet	4	0.533	---	91	47 - 123%	---	---
Benz(a)anthracene	0.476	---	0.0107	mg/kg wet	4	0.533	---	89	49 - 126%	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310457 - EPA 3546						Soil						
LCS (2310457-BS1)						Prepared: 09/15/23 06:44 Analyzed: 09/15/23 13:54						
Benzo(a)pyrene	0.535	---	0.0160	mg/kg wet	4	0.533	---	100	45 - 129%	---	---	
Benzo(b)fluoranthene	0.482	---	0.0160	mg/kg wet	4	0.533	---	90	45 - 132%	---	---	
Benzo(k)fluoranthene	0.508	---	0.0160	mg/kg wet	4	0.533	---	95	47 - 132%	---	---	
Benzo(g,h,i)perylene	0.496	---	0.0107	mg/kg wet	4	0.533	---	93	43 - 134%	---	---	
Chrysene	0.473	---	0.0107	mg/kg wet	4	0.533	---	89	50 - 124%	---	---	
Dibenz(a,h)anthracene	0.489	---	0.0107	mg/kg wet	4	0.533	---	92	45 - 134%	---	---	
Fluoranthene	0.516	---	0.0107	mg/kg wet	4	0.533	---	97	50 - 127%	---	---	
Fluorene	0.443	---	0.0107	mg/kg wet	4	0.533	---	83	43 - 125%	---	---	
Indeno(1,2,3-cd)pyrene	0.460	---	0.0107	mg/kg wet	4	0.533	---	86	45 - 133%	---	---	
1-Methylnaphthalene	0.480	---	0.0213	mg/kg wet	4	0.533	---	90	40 - 120%	---	---	
2-Methylnaphthalene	0.498	---	0.0213	mg/kg wet	4	0.533	---	93	38 - 122%	---	---	
Naphthalene	0.464	---	0.0213	mg/kg wet	4	0.533	---	87	35 - 123%	---	---	
Phenanthrene	0.461	---	0.0107	mg/kg wet	4	0.533	---	86	50 - 121%	---	---	
Pyrene	0.501	---	0.0107	mg/kg wet	4	0.533	---	94	47 - 127%	---	---	
Carbazole	0.469	---	0.0160	mg/kg wet	4	0.533	---	88	50 - 123%	---	---	
Dibenzofuran	0.460	---	0.0107	mg/kg wet	4	0.533	---	86	44 - 120%	---	---	
Surr: Nitrobenzene-d5 (Surr)			Recovery: 80 %	Limits: 37-122 %	Dilution: 4x							
2-Fluorobiphenyl (Surr)			88 %	44-120 %	"							
Phenol-d6 (Surr)			83 %	33-122 %	"							
p-Terphenyl-d14 (Surr)			95 %	54-127 %	"							
2-Fluorophenol (Surr)			80 %	35-120 %	"							
2,4,6-Tribromophenol (Surr)			91 %	39-132 %	"							

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

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Cameron O'Brien, Project Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

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 23I0369 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23I0369-DUP6)		Prepared: 09/13/23 19:18 Analyzed: 09/14/23 05:25										
QC Source Sample: Disp-1 (A3I1065-06)												
EPA 8000D												
% Solids	90.7	---	1.00	%	1	---	94.1	---	---	4	10%	

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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 23I0426 - Total Solids (Dry Weight) - 2022**Soil***No Client related Batch QC samples analyzed for this batch. See notes page for more information.*

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0397							
A3I1065-06RE1	Soil	NWTPH-Dx	09/13/23 14:30	09/13/23 18:23	10.36g/5mL	10g/5mL	0.97
A3I1065-07	Soil	NWTPH-Dx	09/13/23 14:35	09/13/23 18:23	10.82g/5mL	10g/5mL	0.92
A3I1065-08	Soil	NWTPH-Dx	09/13/23 14:40	09/13/23 18:23	10.66g/5mL	10g/5mL	0.94
Batch: 23I0407							
A3I1065-01	Soil	NWTPH-Dx	09/13/23 14:15	09/14/23 07:06	10.12g/5mL	10g/5mL	0.99
A3I1065-02	Soil	NWTPH-Dx	09/13/23 14:20	09/14/23 07:06	10.05g/5mL	10g/5mL	1.00
A3I1065-03	Soil	NWTPH-Dx	09/13/23 14:50	09/14/23 07:06	10.37g/5mL	10g/5mL	0.96
A3I1065-04	Soil	NWTPH-Dx	09/13/23 14:55	09/14/23 07:06	10.28g/5mL	10g/5mL	0.97
A3I1065-05	Soil	NWTPH-Dx	09/13/23 14:25	09/14/23 07:06	10.35g/5mL	10g/5mL	0.97

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0427							
A3I1065-01	Soil	5035A/8260D	09/13/23 14:15	09/13/23 14:15	5.59g/5mL	5g/5mL	0.89
A3I1065-02	Soil	5035A/8260D	09/13/23 14:20	09/13/23 14:20	7.31g/5mL	5g/5mL	0.68
A3I1065-03	Soil	5035A/8260D	09/13/23 14:50	09/13/23 14:50	4.57g/5mL	5g/5mL	1.09
A3I1065-04	Soil	5035A/8260D	09/13/23 14:55	09/13/23 14:55	7.63g/5mL	5g/5mL	0.66
A3I1065-05	Soil	5035A/8260D	09/13/23 14:25	09/13/23 14:25	6.77g/5mL	5g/5mL	0.74
A3I1065-06	Soil	5035A/8260D	09/13/23 14:30	09/13/23 14:30	7.55g/5mL	5g/5mL	0.66
A3I1065-07	Soil	5035A/8260D	09/13/23 14:35	09/13/23 14:35	6.12g/5mL	5g/5mL	0.82
A3I1065-08	Soil	5035A/8260D	09/13/23 14:40	09/13/23 14:40	6.55g/5mL	5g/5mL	0.76

Selected Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0457							
A3I1065-08	Soil	EPA 8270E	09/13/23 14:40	09/15/23 15:15	15.31g/2mL	15g/2mL	0.98
A3I1065-08RE1	Soil	EPA 8270E	09/13/23 14:40	09/15/23 15:15	15.31g/2mL	15g/2mL	0.98

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
------------	--------	--------	---------	----------	-------------------------	--------------------------	-------------------

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Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521**

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23I0369</u>							
A3I1065-06	Soil	EPA 8000D	09/13/23 14:30	09/13/23 19:18			NA
A3I1065-07	Soil	EPA 8000D	09/13/23 14:35	09/13/23 19:18			NA
A3I1065-08	Soil	EPA 8000D	09/13/23 14:40	09/13/23 19:18			NA
<u>Batch: 23I0426</u>							
A3I1065-01	Soil	EPA 8000D	09/13/23 14:15	09/14/23 10:21			NA
A3I1065-02	Soil	EPA 8000D	09/13/23 14:20	09/14/23 10:21			NA
A3I1065-03	Soil	EPA 8000D	09/13/23 14:50	09/14/23 10:21			NA
A3I1065-04	Soil	EPA 8000D	09/13/23 14:55	09/14/23 10:21			NA
A3I1065-05	Soil	EPA 8000D	09/13/23 14:25	09/14/23 10:21			NA

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Project Number: 10024-017.00

Project Manager: Chris Sheridan

Report ID:

A3I1065 - 09 18 23 1521

QUALIFIER DEFINITIONS

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

Apex Laboratories

- F-13** The chromatographic pattern does not resemble the fuel standard used for quantitation
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-06** Surrogate recovery is outside of established control limits.

Apex Laboratories

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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)

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 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'.

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) are not 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).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-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.

Apex Laboratories

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Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

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.

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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Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1065 - 09 18 23 1521

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.

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Vancouver, WA 98661

Project: Hillsboro Airport

Project Number: 10024-017.00

Project Manager: Chris Sheridan

Report ID:

A311065 - 09 18 23 1521

APEX LABS		CHAIN OF CUSTODY		HydroCon LLC		Project Name: Hillsboro Airport		Project #: 10024-017.00	
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Lab # A311065 COC 1 of 1		Phone: 503-495-6857 Email: csheridan@hydroconllc.net		Project Mgr: CJS		PO #	
Address:		Sampled by: CJS		Site Location:		Matrix		Time	
State: OR		County:		DATE		TIME		SAMPLE ID	
T1-SW-13.5		X		9/13/15		S		2	
T1-NW-13.5		X		1420		1		1	
T2-SE-13.5		X		1430		1		1	
T2-NE-13.5		X		1435		1		1	
Piping-1		X		1425		1		1	
Disp-1		X		1430		1		1	
Disp-2-2.5		X		1435		1		1	
Disp-3-2.5		X		1440		1		1	
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							
Disp-1		X							
Disp-2-2.5		X							
Disp-3-2.5		X							
Frozen Archive		X							
Hold Sample		X							
TCLP Metals (8)		X							
TOTAL DISS. TCLP		X							
Hg, Ag, Na, TL, V, Zn		X							
Hg, Cr, Cu, Pb, Fe, Ni, K		X							
Al, Sb, As, Ba, B, Cd		X							
Priority Metals (13)		X							
RCRA Metals (8)		X							
8081 Pesticides		X							
8082 PCBs		X							
8270 Semi-Volat Full List		X							
8270 SIM PAHs		X							
8260 VOCs Full List		X							
8260 Halo VOCs		X							
8260 RBDM VOCs		X							
8260 BTEX + N		X							
NWTPH-GX		X							
NWTPH-DX		X							
NWTPH-HCID		X							
# OF CONTAINERS		X							
MATRIX		X							
DATE		X							
TIME		X							
SAMPLE ID		X							
T1-SW-13.5		X							
T1-NW-13.5		X							
T2-SE-13.5		X							
T2-NE-13.5		X							
Piping-1		X							



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1065 - 09 18 23 1521****APEX LABS COOLER RECEIPT FORM**Client: HydroCon Element WO#: A3 I 1065Project/Project #: Hillsboro Airport 10024-017.00**Delivery Info:**Date/time received: 9/13/23 @ 1624 By: APWDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐**Cooler Inspection** Date/time inspected: 9/13/23 @ 1625 By: APWChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>9.7</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>Out</u>						

Cooler out of temp? (Y/N) Y Possible reason why: Sampled recentlyGreen dots applied to out of temperature samples? YesOut of temperature samples form initiated? Yes**Sample Inspection:** Date/time inspected: 9/13/23 @ 1630 By: APWAll 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 ☒ pH appropriate? Yes ☐ No ☒ Strip ID: A23A348 ☐

Comments: _____

Additional information:Labeled by: DBSWitness: APWCooler Inspected by: APW

Form Y-003 R-01

Apex Laboratories

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Cameron O'Brien, Project Manager

Page 24 of 24



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Monday, September 18, 2023

Chris Sheridan
HydroCon LLC
3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

RE: A3I1105 - Hillsboro Airport - 10024-017.00

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 A3I1105, which was received by the laboratory on 9/14/2023 at 1:45:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@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	25.4	degC

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.



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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

Project: Hillsboro Airport

Project Number: 10024-017.00

Project Manager: Chris Sheridan

Report ID:

A3I1105 - 09 18 23 1613

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Disp-4-4.5	A3I1105-01	Soil	09/14/23 12:45	09/14/23 13:45
Disp-5-4.5	A3I1105-02	Soil	09/14/23 12:50	09/14/23 13:45

Apex Laboratories

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Cameron O'Brien, Project Manager

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

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1105 - 09 18 23 1613****ANALYTICAL SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Disp-4-4.5 (A3I1105-01)				Matrix: Soil		Batch: 23I0407		TEMP
Diesel	1820	---	27.4	mg/kg dry	1	09/15/23 01:07	NWTPH-Dx	F-13
Oil	ND	---	54.9	mg/kg dry	1	09/15/23 01:07	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	09/15/23 01:07	NWTPH-Dx	Q-41
Disp-5-4.5 (A3I1105-02)				Matrix: Soil		Batch: 23I0407		CONT, TEMP
Diesel	ND	---	25.3	mg/kg dry	1	09/15/23 01:28	NWTPH-Dx	
Oil	ND	---	50.6	mg/kg dry	1	09/15/23 01:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	09/15/23 01:28	NWTPH-Dx	Q-41

Apex Laboratories

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1105 - 09 18 23 1613**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Disp-4-4.5 (A3I1105-01)				Matrix: Soil		Batch: 23I0479		TEMP, V-15
Benzene	ND	---	0.149	mg/kg dry	500	09/15/23 18:47	5035A/8260D	
Toluene	ND	---	0.747	mg/kg dry	500	09/15/23 18:47	5035A/8260D	
Ethylbenzene	0.829	---	0.373	mg/kg dry	500	09/15/23 18:47	5035A/8260D	
Xylenes, total	14.7	---	1.12	mg/kg dry	500	09/15/23 18:47	5035A/8260D	
Naphthalene	3.08	---	1.49	mg/kg dry	500	09/15/23 18:47	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	09/15/23 18:47	5035A/8260D	
Toluene-d8 (Surr)		101 %		80-120 %	1	09/15/23 18:47	5035A/8260D	
4-Bromofluorobenzene (Surr)		93 %		79-120 %	1	09/15/23 18:47	5035A/8260D	
Disp-5-4.5 (A3I1105-02)				Matrix: Soil		Batch: 23I0479		TEMP, V-15
Benzene	ND	---	0.0159	mg/kg dry	50	09/15/23 18:21	5035A/8260D	
Toluene	ND	---	0.0793	mg/kg dry	50	09/15/23 18:21	5035A/8260D	
Ethylbenzene	ND	---	0.0396	mg/kg dry	50	09/15/23 18:21	5035A/8260D	
Xylenes, total	ND	---	0.119	mg/kg dry	50	09/15/23 18:21	5035A/8260D	
Naphthalene	ND	---	0.159	mg/kg dry	50	09/15/23 18:21	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %	1	09/15/23 18:21	5035A/8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	09/15/23 18:21	5035A/8260D	
4-Bromofluorobenzene (Surr)		97 %		79-120 %	1	09/15/23 18:21	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

HydroCon LLC

3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

Project: **Hillsboro Airport**

Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1105 - 09 18 23 1613

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Disp-4-4.5 (A3I1105-01)				Matrix: Soil		Batch: 23I0426		TEMP
% Solids	72.6	---	1.00	%	1	09/15/23 06:49	EPA 8000D	
Disp-5-4.5 (A3I1105-02)				Matrix: Soil		Batch: 23I0426		CONT, TEMP
% Solids	75.7	---	1.00	%	1	09/15/23 06:49	EPA 8000D	

Apex Laboratories

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Cameron O'Brien, Project Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**HydroCon LLC**3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1105 - 09 18 23 1613****QUALITY CONTROL (QC) SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0407 - EPA 3546 (Fuels)						Soil						
Blank (23I0407-BLK1)		Prepared: 09/14/23 07:06 Analyzed: 09/14/23 22:01										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
LCS (23I0407-BS1)		Prepared: 09/14/23 07:06 Analyzed: 09/14/23 22:21										
NWTPH-Dx												
Diesel	110	---	20.0	mg/kg wet	1	125	---	88	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						

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

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A311105 - 09 18 23 1613**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0479 - EPA 5035A						Soil						
Blank (23I0479-BLK1)		Prepared: 09/15/23 10:56 Analyzed: 09/15/23 12:46										
5035A/8260D												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		79-120 %		"						
LCS (23I0479-BS1)		Prepared: 09/15/23 10:56 Analyzed: 09/15/23 11:50										
5035A/8260D												
Benzene	1.03	---	0.0100	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Toluene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
Ethylbenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Xylenes, total	3.10	---	0.0750	mg/kg wet	50	3.00	---	103	80 - 120%	---	---	
Naphthalene	0.870	---	0.100	mg/kg wet	50	1.00	---	87	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		79-120 %		"						

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

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

HydroCon LLC

3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

Project: Hillsboro Airport

Project Number: 10024-017.00

Project Manager: Chris Sheridan

Report ID:

A3I1105 - 09 18 23 1613

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 23I0426 - Total Solids (Dry Weight) - 2022

Soil

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

Apex Laboratories

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Cameron O'Brien, Project Manager

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

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**Project Number: **10024-017.00**Project Manager: **Chris Sheridan****Report ID:****A3I1105 - 09 18 23 1613****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx****Prep: EPA 3546 (Fuels)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0407							
A3I1105-01	Soil	NWTPH-Dx	09/14/23 12:45	09/14/23 18:12	10.04g/5mL	10g/5mL	1.00
A3I1105-02	Soil	NWTPH-Dx	09/14/23 12:50	09/14/23 18:12	10.44g/5mL	10g/5mL	0.96

BTEX+N Compounds by EPA 8260D**Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0479							
A3I1105-01	Soil	5035A/8260D	09/14/23 12:45	09/14/23 14:27	6.17g/5mL	5g/5mL	0.81
A3I1105-02	Soil	5035A/8260D	09/14/23 12:50	09/14/23 14:27	5.22g/5mL	5g/5mL	0.96

Percent Dry Weight**Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23I0426							
A3I1105-01	Soil	EPA 8000D	09/14/23 12:45	09/14/23 20:02			NA
A3I1105-02	Soil	EPA 8000D	09/14/23 12:50	09/14/23 20:02			NA

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**

Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1105 - 09 18 23 1613

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.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
TEMP	Sample was received outside of recommended temperature.
V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

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Cameron O'Brien, Project Manager



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Project: **Hillsboro Airport**

Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1105 - 09 18 23 1613

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)

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 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'.

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) are not 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).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-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.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

HydroCon LLC

3925 NE 72nd Ave. Suite 103
Vancouver, WA 98661

Project: **Hillsboro Airport**

Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1105 - 09 18 23 1613

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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.

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

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.

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: **Hillsboro Airport**

Project Number: **10024-017.00**

Project Manager: **Chris Sheridan**

Report ID:

A3I1105 - 09 18 23 1613

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

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

HydroCon LLC

3925 NE 72nd Ave. Suite 103

Vancouver, WA 98661

Project: Hillsboro Airport

Project Number: 10024-017.00

Project Manager: Chris Sheridan

Report ID:

A311105 - 09 18 23 1613

APEX LABS COOLER RECEIPT FORM

Client: HydroCon Element WO#: A3 I 1105Project/Project #: Hillsboro Airport 10024-017.00

Delivery Info:

Date/time received: 9/14/23 @ 1345 By: msDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 9/14/23 @ 1345 By: msChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>29.4</u>						

Received on ice? (Y/N) NTemp. blanks? (Y/N) NIce type: (Gel/Real/Other) NoneCondition (In/Out): OutCooler out of temp? (Y/N) Possible reason why: No Cooler/ No IceGreen dots applied to out of temperature samples? ☒ Yes ☐ NoOut of temperature samples form initiated? ☒ Yes ☐ NoSample Inspection: Date/time inspected: 9/14/23 @ 1349 By: msAll 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 ☒ Strip ID: A23A348 ☐

Comments: _____

Additional information: _____

Labeled by: JBWitness: RWPCooler Inspected by: Client/No Cooler

Form Y-003 R-01

Apex Laboratories

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Cameron O'Brien, Project Manager

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