

From: [Yu, Olivia, EMNRD](#)
To: ["Naranjo, Mark"; "James Fox"](#)
Cc: [Dena](#)
Subject: RE: Rush analysis for 1RP-4820
Date: Tuesday, February 6, 2018 8:03:00 AM

Mr. Fox:

Based on the preliminary data, under the assumption that these sample locations for rush analyses are representative pooling locations for 1RP-4820, NMOCD determines that BTEX and TPH analyses are not required for the remainder of the delineation sample locations.

Thanks,
Olivia

From: Naranjo, Mark [mailto:MNaranjo@slo.state.nm.us]
Sent: Monday, February 5, 2018 4:48 PM
To: 'James Fox' <james@kjenvironmental.com>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Dena <dena@kjenvironmental.com>
Subject: RE: Rush analysis for 1RP-4820

I will defer the decision regarding this to NMOCD.

I apologize for my late response, I am currently doing my job as well as taking on the additional work load that Amber Groves had. The NMSLO should be filling the position Amber left soon so hopefully things from the NMSLO side will be answered faster.

Mark Naranjo
Assistant Division Director
Field Operations Division
575.623.4979 Office
575.626.2678 Cell
575.623.9200 Fax
New Mexico State Land Office
1001 S. Atkinson
Roswell, NM 88203
MNaranjo@slo.state.nm.us
NMStatelands.org

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From: James Fox [<mailto:james@kjenvironmental.com>]
Sent: Monday, February 5, 2018 4:37 PM
To: Olivia.Yu@state.nm.us; Naranjo, Mark <MNaranjo@slo.state.nm.us>
Cc: Dena <dena@kjenvironmental.com>
Subject: FW: Rush analysis for 1RP-4820

Good evening Olivia and Mark,

I wanted to follow up with my last emails. Unfortunately, the hold time for TPH, and BTEX will expire at 9am tomorrow C.S.T. (2-6-18). If you would like to run the remaining samples for TPH, and BTEX, I will need to know as soon as possible. Please note the Chloride hold time will expire 2-20-18. I can also be contacted at 940-368-3535.

Thank you



JAMES FOX, CNRP
Environmental Project Manager
500 Moseley Rd Cross Roads, TX 76227
O (940)387-0805 F (940)387-0830

From: James Fox
Sent: Thursday, February 01, 2018 1:53 PM
To: Olivia.Yu@state.nm.us; Naranjo, Mark (MNaranjo@slo.state.nm.us)
Cc: 'Dena (KJE)'
Subject: Rush analysis for 1RP-4820

Good afternoon Olivia and Mark,

I wanted to follow up and see if a decision was made for the samples on hold. Please note that the remaining samples are nearing their hold time expiration date for TPH and BTEX.

Thank you



JAMES FOX, CNRP
Environmental Project Manager
500 Moseley Rd Cross Roads, TX 76227
O (940)387-0805 F (940)387-0830

From: James Fox
Sent: Wednesday, January 31, 2018 11:39 AM
To: Olivia.Yu@state.nm.us; Naranjo, Mark
Cc: 'Dena (KJE)'

Subject: Rush analysis for 1RP-4820

Good morning Olivia and Mark,

Please see the attached lab analysis for the full suite. I also attached an informal site map for reference. With the OCD and SLO approval, I will contact the lab to run the remaining samples for Chlorides only. Please let me know if you have any questions.

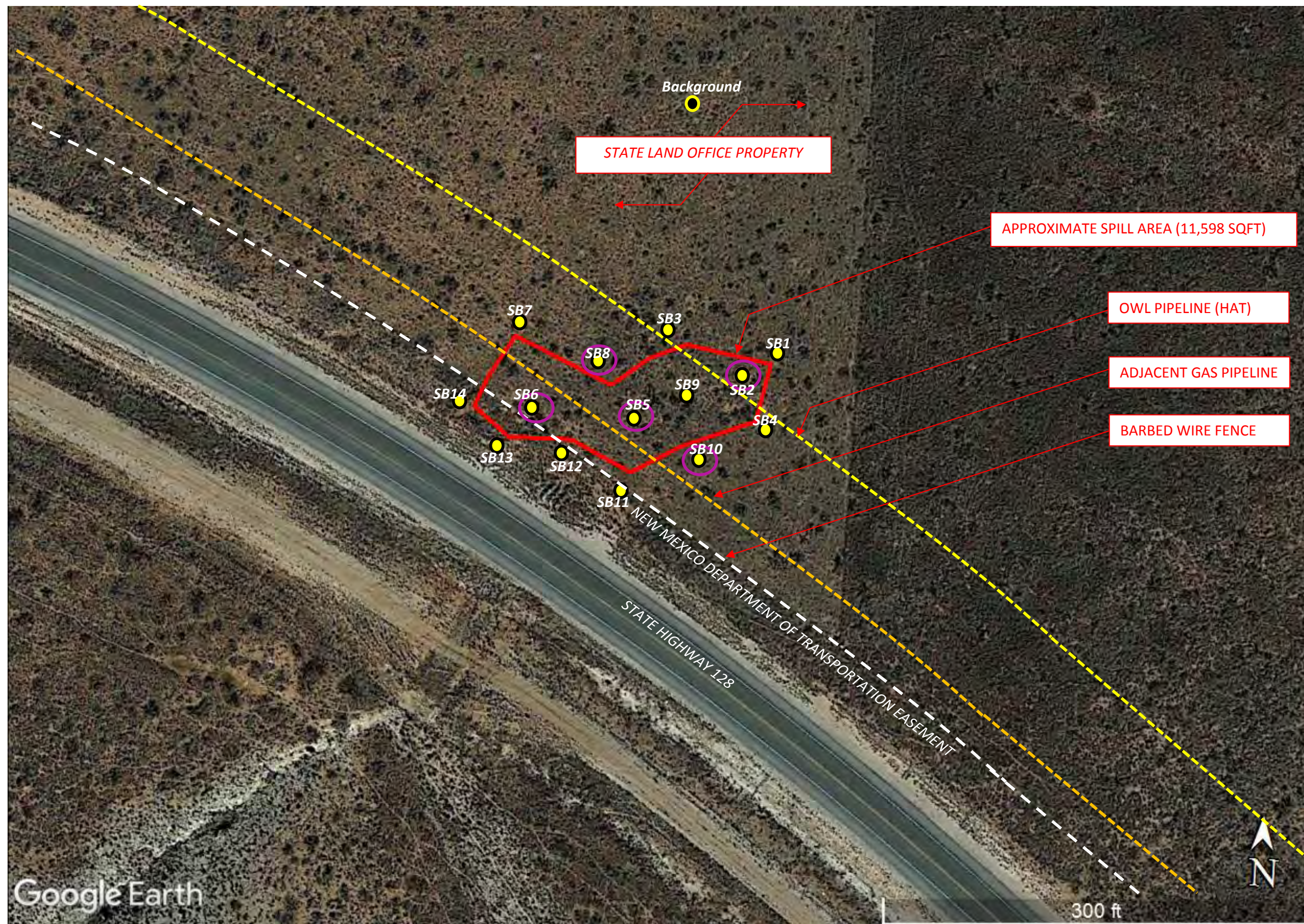
Thank you



JAMES FOX, CNRP
Environmental Project Manager
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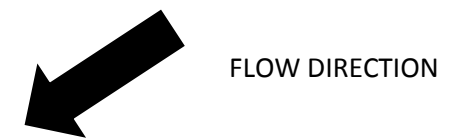
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LEGEND

- - PROPOSED BORING LOCATION
- - PROPOSED BACKGROUND SAMPLE
- ▲ - GROUNDWATER MONITORING WELL
- - PROPOSED NEW LOCATIONS FOR RUSH ANALYSIS

NOTE: LOCATION OF THE GROUNDWATER MONITORING WELL WILL BE DETERMINED AFTER INITIAL LAB ANALYSIS





Certificate of Analysis Summary 573941

OWL SWD Operating LLC, Dallas, TX

Project Name: IRP-4820



Project Id: OWL091317D

Contact: Phillip Sanders

Project Location: JAL NM

Date Received in Lab: Thu Jan-18-18 05:00 pm

Report Date: 25-JAN-18

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	573941-010	573941-011	573941-012	573941-013	573941-014	573941-015
	Field Id:	SB2 0-2	SB2 2-4	SB2 4-6	SB2 6-8	SB2 8-10	SB2 10-11
	Depth:	2- ft	4- ft	6- ft	8- ft	10- ft	11- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-17-18 12:30	Jan-17-18 12:40	Jan-17-18 12:50	Jan-17-18 13:00	Jan-17-18 13:10	Jan-17-18 13:20
BTEX by EPA 8021B	Extracted:	Jan-24-18 16:00	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30
	Analyzed:	Jan-24-18 19:30	Jan-23-18 20:49	Jan-23-18 21:08	Jan-23-18 21:27	Jan-23-18 21:46	Jan-23-18 22:05
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00671 0.00671	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402	<0.00403 0.00403
o-Xylene		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00336 0.00336	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Chloride by EPA 300	Extracted:	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00
	Analyzed:	Jan-23-18 16:56	Jan-23-18 17:03	Jan-23-18 16:21	Jan-23-18 17:10	Jan-23-18 17:17	Jan-23-18 17:24
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		16.8 4.99	2680 25.0	1220 5.00	236 5.01	32.2 5.01	<4.99 4.99
TPH By SW8015 Mod	Extracted:	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00
	Analyzed:	Jan-23-18 17:06	Jan-23-18 18:05	Jan-23-18 18:25	Jan-23-18 18:45	Jan-23-18 19:06	Jan-23-18 19:26
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 573941

OWL SWD Operating LLC, Dallas, TX

Project Name: IRP-4820



Project Id: OWL091317D
Contact: Phillip Sanders
Project Location: JAL NM

Date Received in Lab: Thu Jan-18-18 05:00 pm
Report Date: 25-JAN-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	573941-027	573941-028	573941-029	573941-030	573941-031	573941-032
	Field Id:	SB5 0-2	SB5 2-4	SB5 4-6	SB5 6-8	SB5 8-10	SB6 0-2
	Depth:	2- ft	4- ft	6- ft	8- ft	10- ft	2- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-17-18 15:45	Jan-17-18 15:55	Jan-17-18 16:00	Jan-17-18 16:10	Jan-17-18 16:20	Jan-17-18 16:30
BTEX by EPA 8021B	Extracted:	Jan-24-18 16:00	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30	Jan-23-18 08:30
	Analyzed:	Jan-24-18 19:49	Jan-23-18 16:41	Jan-23-18 22:43	Jan-23-18 23:02	Jan-23-18 23:21	Jan-23-18 17:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00664 0.00664	<0.00403 0.00403	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401
o-Xylene		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00332 0.00332	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00
	Analyzed:	Jan-23-18 17:31	Jan-23-18 17:38	Jan-23-18 17:45	Jan-23-18 17:52	Jan-23-18 17:59	Jan-23-18 18:34
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1330 24.9	1580 24.9	486 5.00	51.7 5.00	23.7 4.97	<4.98 4.98
TPH By SW8015 Mod	Extracted:	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00
	Analyzed:	Jan-23-18 19:46	Jan-23-18 20:05	Jan-23-18 20:25	Jan-23-18 20:46	Jan-23-18 21:47	Jan-23-18 22:07
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		43.2 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		43.2 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 573941

OWL SWD Operating LLC, Dallas, TX

Project Name: IRP-4820



Project Id: OWL091317D
Contact: Phillip Sanders
Project Location: JAL NM

Date Received in Lab: Thu Jan-18-18 05:00 pm
Report Date: 25-JAN-18
Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	573941-033	573941-034	573941-035	573941-036	573941-037	573941-038
	<i>Field Id:</i>	SB6 2-4	SB6 4-6	SB6 6-8	SB6 8-10	SB6 10-12	SB6 12-14
	<i>Depth:</i>	4- ft	6- ft	8- ft	10- ft	12- ft	14- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-17-18 16:40	Jan-17-18 16:50	Jan-17-18 17:00	Jan-17-18 17:10	Jan-17-18 17:20	Jan-17-18 17:30
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-24-18 16:00	Jan-23-18 17:00	Jan-24-18 16:00
	<i>Analyzed:</i>	Jan-24-18 04:58	Jan-24-18 08:07	Jan-24-18 08:26	Jan-24-18 20:08	Jan-24-18 09:04	Jan-24-18 20:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00398 0.00398	<0.00660 0.00660	<0.00396 0.00396	<0.00676 0.00676
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00330 0.00330	<0.00198 0.00198	<0.00338 0.00338
Chloride by EPA 300	<i>Extracted:</i>	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 12:00
	<i>Analyzed:</i>	Jan-23-18 18:41	Jan-23-18 18:48	Jan-23-18 18:55	Jan-23-18 19:02	Jan-23-18 19:09	Jan-23-18 19:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		404 4.97	1070 4.99	454 4.96	121 5.00	540 5.00	162 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00
	<i>Analyzed:</i>	Jan-23-18 22:27	Jan-23-18 22:50	Jan-23-18 23:10	Jan-23-18 23:29	Jan-23-18 23:49	Jan-24-18 00:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 573941

OWL SWD Operating LLC, Dallas, TX

Project Name: IRP-4820



Project Id: OWL091317D

Contact: Phillip Sanders

Project Location: JAL NM

Date Received in Lab: Thu Jan-18-18 05:00 pm

Report Date: 25-JAN-18

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	573941-039	573941-045	573941-046	573941-047	573941-048	573941-049
	<i>Field Id:</i>	SB6 14-16	SB8 0-2	SB8 2-4	SB8 4-6	SB8 6-8	SB8 8-10 (1)
	<i>Depth:</i>	16- ft	2- ft	4- ft	6- ft	8- ft	10- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-17-18 17:40	Jan-18-18 08:50	Jan-18-18 09:00	Jan-18-18 09:10	Jan-18-18 09:20	Jan-18-18 09:30
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-24-18 16:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00
	<i>Analyzed:</i>	Jan-24-18 20:46	Jan-24-18 10:01	Jan-24-18 02:09	Jan-24-18 02:28	Jan-24-18 02:46	Jan-24-18 03:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00692 0.00692	<0.00403 0.00403	<0.00401 0.00401	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00346 0.00346	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	Jan-23-18 12:00	Jan-23-18 12:00	Jan-23-18 16:45	Jan-23-18 16:45	Jan-23-18 16:45	Jan-23-18 16:45
	<i>Analyzed:</i>	Jan-23-18 19:23	Jan-23-18 19:44	Jan-23-18 20:12	Jan-23-18 20:33	Jan-23-18 20:40	Jan-23-18 20:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		420 5.00	<5.01 5.01	<5.02 5.02	7.60 4.98	<5.00 5.00	<5.00 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00
	<i>Analyzed:</i>	Jan-24-18 00:30	Jan-24-18 00:52	Jan-24-18 02:34	Jan-24-18 03:32	Jan-24-18 03:52	Jan-24-18 04:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 573941

OWL SWD Operating LLC, Dallas, TX

Project Name: IRP-4820



Project Id: OWL091317D
Contact: Phillip Sanders
Project Location: JAL NM

Date Received in Lab: Thu Jan-18-18 05:00 pm
Report Date: 25-JAN-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	573941-055	573941-056	573941-057	573941-058	573941-059	
	Field Id:	SB10 0-2	SB10 2-4	SB10 4-6	SB10 6-8	SB10 8-10	
	Depth:	2- ft	4- ft	6- ft	8- ft	10- ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jan-18-18 11:00	Jan-18-18 11:10	Jan-18-18 11:20	Jan-18-18 11:30	Jan-18-18 11:40	
BTEX by EPA 8021B	Extracted:	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	Jan-23-18 17:00	
	Analyzed:	Jan-24-18 03:24	Jan-24-18 03:43	Jan-24-18 04:02	Jan-24-18 04:20	Jan-24-18 04:39	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00401 0.00401	
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	
Chloride by EPA 300	Extracted:	Jan-23-18 16:45	Jan-23-18 16:45	Jan-23-18 16:45	Jan-23-18 16:45	Jan-23-18 16:45	
	Analyzed:	Jan-23-18 21:07	Jan-23-18 21:14	Jan-23-18 21:21	Jan-23-18 21:28	Jan-23-18 21:35	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<5.01 5.01	<5.01 5.01	6.70 5.01	<4.98 4.98	9.61 5.01	
TPH By SW8015 Mod	Extracted:	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	Jan-23-18 14:00	
	Analyzed:	Jan-24-18 04:32	Jan-24-18 04:52	Jan-24-18 05:14	Jan-24-18 05:35	Jan-24-18 05:55	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks
Project Manager

Analytical Report 573941

for OWL SWD Operating LLC

Project Manager: Phillip Sanders

IRP-4820

OWL091317D

25-JAN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



25-JAN-18

Project Manager: **Phillip Sanders**
OWL SWD Operating LLC
8214 Westchester Dr. Suite 850
Dallas, TX 75225

Reference: XENCO Report No(s): **573941**
IRP-4820
Project Address: JAL NM

Phillip Sanders:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 573941. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 573941 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB2 0-2	S	01-17-18 12:30	2 ft	573941-010
SB2 2-4	S	01-17-18 12:40	4 ft	573941-011
SB2 4-6	S	01-17-18 12:50	6 ft	573941-012
SB2 6-8	S	01-17-18 13:00	8 ft	573941-013
SB2 8-10	S	01-17-18 13:10	10 ft	573941-014
SB2 10-11	S	01-17-18 13:20	11 ft	573941-015
SB5 0-2	S	01-17-18 15:45	2 ft	573941-027
SB5 2-4	S	01-17-18 15:55	4 ft	573941-028
SB5 4-6	S	01-17-18 16:00	6 ft	573941-029
SB5 6-8	S	01-17-18 16:10	8 ft	573941-030
SB5 8-10	S	01-17-18 16:20	10 ft	573941-031
SB6 0-2	S	01-17-18 16:30	2 ft	573941-032
SB6 2-4	S	01-17-18 16:40	4 ft	573941-033
SB6 4-6	S	01-17-18 16:50	6 ft	573941-034
SB6 6-8	S	01-17-18 17:00	8 ft	573941-035
SB6 8-10	S	01-17-18 17:10	10 ft	573941-036
SB6 10-12	S	01-17-18 17:20	12 ft	573941-037
SB6 12-14	S	01-17-18 17:30	14 ft	573941-038
SB6 14-16	S	01-17-18 17:40	16 ft	573941-039
SB8 0-2	S	01-18-18 08:50	2 ft	573941-045
SB8 2-4	S	01-18-18 09:00	4 ft	573941-046
SB8 4-6	S	01-18-18 09:10	6 ft	573941-047
SB8 6-8	S	01-18-18 09:20	8 ft	573941-048
SB8 8-10 (1)	S	01-18-18 09:30	10 ft	573941-049
SB10 0-2	S	01-18-18 11:00	2 ft	573941-055
SB10 2-4	S	01-18-18 11:10	4 ft	573941-056
SB10 4-6	S	01-18-18 11:20	6 ft	573941-057
SB10 6-8	S	01-18-18 11:30	8 ft	573941-058
SB10 8-10	S	01-18-18 11:40	10 ft	573941-059
BG 0-2	S	01-17-18 10:30	2 ft	Not Analyzed
BG 2-4	S	01-17-18 10:40	4 ft	Not Analyzed
BG 4-6	S	01-17-18 10:50	6 ft	Not Analyzed
SB1 0-2	S	01-17-18 11:30	2 ft	Not Analyzed
SB1 2-4	S	01-17-18 11:40	4 ft	Not Analyzed
SB1 4-6	S	01-17-18 11:50	6 ft	Not Analyzed
SB1 6-8	S	01-17-18 12:00	8 ft	Not Analyzed
SB1 8-10	S	01-17-18 12:10	10 ft	Not Analyzed
SB1 10-11.51	S	01-17-18 12:20	11.5 ft	Not Analyzed
SB3 0-2	S	01-17-18 14:00	2 ft	Not Analyzed
SB3 2-4	S	01-17-18 14:10	4 ft	Not Analyzed
SB3 4-6	S	01-17-18 14:20	6 ft	Not Analyzed
SB3 6-8	S	01-17-18 14:30	8 ft	Not Analyzed
SB3 8-10	S	01-17-18 14:40	10 ft	Not Analyzed



Sample Cross Reference 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

SB3 10-11	S	01-17-18 14:50	11 ft	Not Analyzed
SB4 0-2	S	01-17-18 14:55	2 ft	Not Analyzed
SB4 2-4	S	01-17-18 15:00	4 ft	Not Analyzed
SB4 4-6 (1)	S	01-17-18 15:10	6 ft	Not Analyzed
SB4 6-8	S	01-17-18 15:20	8 ft	Not Analyzed
SB4 8-10	S	01-17-18 15:30	10 ft	Not Analyzed
SB7 0-2	S	01-18-18 08:00	2 ft	Not Analyzed
SB7 2-4	S	01-18-18 08:10	4 ft	Not Analyzed
SB7 4-6	S	01-18-18 08:20	6 ft	Not Analyzed
SB7 6-8	S	01-18-18 08:30	8 ft	Not Analyzed
SB7 8-10	S	01-18-18 08:40	10 ft	Not Analyzed
SB9 0-2	S	01-18-18 10:15	2 ft	Not Analyzed
SB9 2-4	S	01-18-18 10:20	4 ft	Not Analyzed
SB9 4-6	S	01-18-18 10:30	6 ft	Not Analyzed
SB9 6-8	S	01-18-18 10:40	8 ft	Not Analyzed
SB9 8-10	S	01-18-18 10:50	10 ft	Not Analyzed
SB4 4-6 (2)	S	01-18-18 11:40	6 ft	Not Analyzed
BG 6-8	S	01-18-18 11:40	8 ft	Not Analyzed
SB8 8-10 (2)	S	01-18-18 11:40	10 ft	Not Analyzed



CASE NARRATIVE

Client Name: OWL SWD Operating LLC

Project Name: IRP-4820

Project ID: OWL091317D
Work Order Number(s): 573941

Report Date: 25-JAN-18
Date Received: 01/18/2018

Sample receipt non conformance and comments:

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

Batch: LBA-3039101 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3039105 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 573941-046 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 573941-033, -034, -035, -037, -045, -046, -047, -048, -049, -055, -056, -057, -058, -059.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3039239 Chloride by EPA 300

Lab Sample ID 573941-031 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 573941-010, -011, -012, -013, -014, -015, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -045.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3039242 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 0-2**
Lab Sample Id: 573941-010

Matrix: Soil
Date Collected: 01.17.18 12.30

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.8	4.99	mg/kg	01.23.18 16.56		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 17.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 17.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 17.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 17.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	01.23.18 17.06		
o-Terphenyl	84-15-1	115	%	70-135	01.23.18 17.06		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 0-2**
Lab Sample Id: 573941-010

Matrix: Soil
Date Collected: 01.17.18 12.30

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039242

Date Prep: 01.24.18 16.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
Toluene	108-88-3	<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
Ethylbenzene	100-41-4	<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
m,p-Xylenes	179601-23-1	<0.00671	0.00671	mg/kg	01.24.18 19.30	U	1
o-Xylene	95-47-6	<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
Total Xylenes	1330-20-7	<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
Total BTEX		<0.00336	0.00336	mg/kg	01.24.18 19.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	80-120	01.24.18 19.30		
4-Bromofluorobenzene	460-00-4	94	%	80-120	01.24.18 19.30		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 2-4**
Lab Sample Id: 573941-011

Matrix: Soil
Date Collected: 01.17.18 12.40

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2680	25.0	mg/kg	01.23.18 17.03		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 18.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 18.05	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 18.05	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 18.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.23.18 18.05	
o-Terphenyl	84-15-1	119	%	70-135	01.23.18 18.05	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 2-4**
Lab Sample Id: 573941-011

Matrix: Soil
Date Collected: 01.17.18 12.40

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.23.18 20.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.23.18 20.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.23.18 20.49		
1,4-Difluorobenzene	540-36-3	94	%	80-120	01.23.18 20.49		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 4-6**
Lab Sample Id: 573941-012

Matrix: Soil
Date Collected: 01.17.18 12.50

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1220	5.00	mg/kg	01.23.18 16.21		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 18.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 18.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 18.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 18.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	01.23.18 18.25		
o-Terphenyl	84-15-1	108	%	70-135	01.23.18 18.25		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 4-6**
Lab Sample Id: 573941-012

Matrix: Soil
Date Collected: 01.17.18 12.50

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.23.18 21.08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.23.18 21.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	80-120	01.23.18 21.08		
4-Bromofluorobenzene	460-00-4	87	%	80-120	01.23.18 21.08		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 6-8**
Lab Sample Id: 573941-013

Matrix: Soil
Date Collected: 01.17.18 13.00

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	236	5.01	mg/kg	01.23.18 17.10		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 18.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 18.45	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 18.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 18.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	01.23.18 18.45		
o-Terphenyl	84-15-1	110	%	70-135	01.23.18 18.45		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 6-8**
Lab Sample Id: 573941-013

Matrix: Soil
Date Collected: 01.17.18 13.00

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.23.18 21.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.23.18 21.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	80-120	01.23.18 21.27		
4-Bromofluorobenzene	460-00-4	85	%	80-120	01.23.18 21.27		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 8-10**
Lab Sample Id: 573941-014

Matrix: Soil
Date Collected: 01.17.18 13.10

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.2	5.01	mg/kg	01.23.18 17.17		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 19.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 19.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 19.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 19.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	01.23.18 19.06		
o-Terphenyl	84-15-1	110	%	70-135	01.23.18 19.06		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 8-10**
Lab Sample Id: 573941-014

Matrix: Soil
Date Collected: 01.17.18 13.10

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.23.18 21.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.23.18 21.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.23.18 21.46		
4-Bromofluorobenzene	460-00-4	87	%	80-120	01.23.18 21.46		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 10-11**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-015

Date Collected: 01.17.18 13.20

Sample Depth: 11 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 12.00

Basis: Wet Weight

Seq Number: 3039239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	01.23.18 17.24	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 19.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 19.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 19.26	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	01.23.18 19.26	
o-Terphenyl	84-15-1	121	%	70-135	01.23.18 19.26	



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB2 10-11**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-015

Date Collected: 01.17.18 13.20

Sample Depth: 11 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.23.18 22.05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.23.18 22.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	80-120	01.23.18 22.05		
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.23.18 22.05		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 0-2**
Lab Sample Id: 573941-027

Matrix: Soil
Date Collected: 01.17.18 15.45

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1330	24.9	mg/kg	01.23.18 17.31		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 19.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	43.2	15.0	mg/kg	01.23.18 19.46		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 19.46	U	1
Total TPH	PHC635	43.2	15.0	mg/kg	01.23.18 19.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.23.18 19.46	
o-Terphenyl	84-15-1	108	%	70-135	01.23.18 19.46	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 0-2**
Lab Sample Id: 573941-027

Matrix: Soil
Date Collected: 01.17.18 15.45

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039242

Date Prep: 01.24.18 16.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
Toluene	108-88-3	<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
Ethylbenzene	100-41-4	<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
m,p-Xylenes	179601-23-1	<0.00664	0.00664	mg/kg	01.24.18 19.49	U	1
o-Xylene	95-47-6	<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
Total Xylenes	1330-20-7	<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
Total BTEX		<0.00332	0.00332	mg/kg	01.24.18 19.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	01.24.18 19.49		
4-Bromofluorobenzene	460-00-4	96	%	80-120	01.24.18 19.49		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 2-4**
Lab Sample Id: 573941-028

Matrix: Soil
Date Collected: 01.17.18 15.55

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1580	24.9	mg/kg	01.23.18 17.38		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 20.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 20.05	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 20.05	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 20.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	01.23.18 20.05		
o-Terphenyl	84-15-1	112	%	70-135	01.23.18 20.05		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 2-4**
Lab Sample Id: 573941-028

Matrix: Soil
Date Collected: 01.17.18 15.55

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.23.18 16.41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.23.18 16.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.23.18 16.41		
4-Bromofluorobenzene	460-00-4	88	%	80-120	01.23.18 16.41		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 4-6**
Lab Sample Id: 573941-029

Matrix: Soil
Date Collected: 01.17.18 16.00

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	486	5.00	mg/kg	01.23.18 17.45		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 20.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 20.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 20.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 20.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	01.23.18 20.25		
o-Terphenyl	84-15-1	105	%	70-135	01.23.18 20.25		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 4-6**
Lab Sample Id: 573941-029

Matrix: Soil
Date Collected: 01.17.18 16.00

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.23.18 22.43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.23.18 22.43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	01.23.18 22.43		
4-Bromofluorobenzene	460-00-4	88	%	80-120	01.23.18 22.43		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 6-8**
Lab Sample Id: 573941-030

Matrix: Soil
Date Collected: 01.17.18 16.10

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.7	5.00	mg/kg	01.23.18 17.52		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 20.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 20.46	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 20.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	01.23.18 20.46	
o-Terphenyl	84-15-1	107	%	70-135	01.23.18 20.46	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 6-8**
Lab Sample Id: 573941-030

Matrix: Soil
Date Collected: 01.17.18 16.10

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039101

Date Prep: 01.23.18 08.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.23.18 23.02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.23.18 23.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	01.23.18 23.02		
4-Bromofluorobenzene	460-00-4	92	%	80-120	01.23.18 23.02		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 8-10**
Lab Sample Id: 573941-031

Matrix: Soil
Date Collected: 01.17.18 16.20

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.7	4.97	mg/kg	01.23.18 17.59		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 21.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 21.47	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 21.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 21.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	01.23.18 21.47		
o-Terphenyl	84-15-1	117	%	70-135	01.23.18 21.47		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB5 8-10**
Lab Sample Id: 573941-031

Matrix: Soil
Date Collected: 01.17.18 16.20

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.23.18 23.21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.23.18 23.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.23.18 23.21		
4-Bromofluorobenzene	460-00-4	84	%	80-120	01.23.18 23.21		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 0-2**
Lab Sample Id: 573941-032

Matrix: Soil
Date Collected: 01.17.18 16.30

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	01.23.18 18.34	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 22.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 22.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 22.07	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 22.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	01.23.18 22.07	
o-Terphenyl	84-15-1	109	%	70-135	01.23.18 22.07	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 0-2**
Lab Sample Id: 573941-032

Matrix: Soil
Date Collected: 01.17.18 16.30

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 08.30

Basis: Wet Weight

Seq Number: 3039101

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.23.18 17.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.23.18 17.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	80-120	01.23.18 17.00		
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.23.18 17.00		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 2-4**
Lab Sample Id: 573941-033

Matrix: Soil
Date Collected: 01.17.18 16.40

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	404	4.97	mg/kg	01.23.18 18.41		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 22.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 22.27	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 22.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 22.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.23.18 22.27	
o-Terphenyl	84-15-1	108	%	70-135	01.23.18 22.27	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 2-4**
Lab Sample Id: 573941-033

Matrix: Soil
Date Collected: 01.17.18 16.40

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.24.18 04.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.24.18 04.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	80-120	01.24.18 04.58		
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.24.18 04.58		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 4-6**
Lab Sample Id: 573941-034

Matrix: Soil
Date Collected: 01.17.18 16.50

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1070	4.99	mg/kg	01.23.18 18.48		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 22.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 22.50	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 22.50	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 22.50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	01.23.18 22.50		
o-Terphenyl	84-15-1	99	%	70-135	01.23.18 22.50		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 4-6**
Lab Sample Id: 573941-034

Matrix: Soil
Date Collected: 01.17.18 16.50

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.24.18 08.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 08.07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	86	%	80-120	01.24.18 08.07		
1,4-Difluorobenzene	540-36-3	98	%	80-120	01.24.18 08.07		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 6-8**
Lab Sample Id: 573941-035

Matrix: Soil
Date Collected: 01.17.18 17.00

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	454	4.96	mg/kg	01.23.18 18.55		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 23.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 23.10	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 23.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 23.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.23.18 23.10		
o-Terphenyl	84-15-1	107	%	70-135	01.23.18 23.10		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 6-8**
Lab Sample Id: 573941-035

Matrix: Soil
Date Collected: 01.17.18 17.00

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.24.18 08.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.24.18 08.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	80-120	01.24.18 08.26		
1,4-Difluorobenzene	540-36-3	101	%	80-120	01.24.18 08.26		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 8-10**
Lab Sample Id: 573941-036

Matrix: Soil
Date Collected: 01.17.18 17.10

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	121	5.00	mg/kg	01.23.18 19.02		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 23.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 23.29	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 23.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 23.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.23.18 23.29		
o-Terphenyl	84-15-1	109	%	70-135	01.23.18 23.29		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 8-10**
Lab Sample Id: 573941-036

Matrix: Soil
Date Collected: 01.17.18 17.10

Date Received: 01.18.18 17.00
Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039242

Date Prep: 01.24.18 16.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
Toluene	108-88-3	<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
Ethylbenzene	100-41-4	<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
m,p-Xylenes	179601-23-1	<0.00660	0.00660	mg/kg	01.24.18 20.08	U	1
o-Xylene	95-47-6	<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
Total Xylenes	1330-20-7	<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
Total BTEX		<0.00330	0.00330	mg/kg	01.24.18 20.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86	%	80-120	01.24.18 20.08		
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.24.18 20.08		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 10-12**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-037

Date Collected: 01.17.18 17.20

Sample Depth: 12 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 12.00

Basis: Wet Weight

Seq Number: 3039239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	540	5.00	mg/kg	01.23.18 19.09		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.23.18 23.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.23.18 23.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.23.18 23.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.23.18 23.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	01.23.18 23.49		
o-Terphenyl	84-15-1	108	%	70-135	01.23.18 23.49		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 10-12**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-037

Date Collected: 01.17.18 17.20

Sample Depth: 12 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.24.18 09.04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.24.18 09.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	01.24.18 09.04		
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.24.18 09.04		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 12-14**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-038

Date Collected: 01.17.18 17.30

Sample Depth: 14 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 12.00

Basis: Wet Weight

Seq Number: 3039239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	162	5.00	mg/kg	01.23.18 19.16		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 00.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 00.09	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 00.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 00.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	01.24.18 00.09		
o-Terphenyl	84-15-1	108	%	70-135	01.24.18 00.09		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 12-14**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-038

Date Collected: 01.17.18 17.30

Sample Depth: 14 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.24.18 16.00

Basis: Wet Weight

Seq Number: 3039242

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
Toluene	108-88-3	<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
Ethylbenzene	100-41-4	<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
m,p-Xylenes	179601-23-1	<0.00676	0.00676	mg/kg	01.24.18 20.27	U	1
o-Xylene	95-47-6	<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
Total Xylenes	1330-20-7	<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
Total BTEX		<0.00338	0.00338	mg/kg	01.24.18 20.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	80-120	01.24.18 20.27		
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.24.18 20.27		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 14-16**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-039

Date Collected: 01.17.18 17.40

Sample Depth: 16 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 12.00

Basis: Wet Weight

Seq Number: 3039239

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	420	5.00	mg/kg	01.23.18 19.23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039134

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 00.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 00.30	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 00.30	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 00.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	01.24.18 00.30		
o-Terphenyl	84-15-1	97	%	70-135	01.24.18 00.30		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB6 14-16**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-039

Date Collected: 01.17.18 17.40

Sample Depth: 16 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.24.18 16.00

Basis: Wet Weight

Seq Number: 3039242

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
Toluene	108-88-3	<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
Ethylbenzene	100-41-4	<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
m,p-Xylenes	179601-23-1	<0.00692	0.00692	mg/kg	01.24.18 20.46	U	1
o-Xylene	95-47-6	<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
Total Xylenes	1330-20-7	<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
Total BTEX		<0.00346	0.00346	mg/kg	01.24.18 20.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	01.24.18 20.46		
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.24.18 20.46		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 0-2**
Lab Sample Id: 573941-045

Matrix: Soil
Date Collected: 01.18.18 08.50

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039239

Date Prep: 01.23.18 12.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	01.23.18 19.44	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039134

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 00.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 00.52	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 00.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 00.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	01.24.18 00.52	
o-Terphenyl	84-15-1	95	%	70-135	01.24.18 00.52	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 0-2**
Lab Sample Id: 573941-045

Matrix: Soil
Date Collected: 01.18.18 08.50

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.24.18 10.01	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.24.18 10.01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	01.24.18 10.01		
1,4-Difluorobenzene	540-36-3	96	%	80-120	01.24.18 10.01		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 2-4**
Lab Sample Id: 573941-046

Matrix: Soil
Date Collected: 01.18.18 09.00

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039235

Prep Method: E300P
% Moisture:
Date Prep: 01.23.18 16.45
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	01.23.18 20.12	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039135

Prep Method: TX1005P
% Moisture:
Date Prep: 01.23.18 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 02.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 02.34	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 02.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 02.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	01.24.18 02.34		
o-Terphenyl	84-15-1	103	%	70-135	01.24.18 02.34		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 2-4**
Lab Sample Id: 573941-046

Matrix: Soil
Date Collected: 01.18.18 09.00

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.24.18 02.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 02.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.24.18 02.09		
4-Bromofluorobenzene	460-00-4	89	%	80-120	01.24.18 02.09		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 4-6**
Lab Sample Id: 573941-047

Matrix: Soil
Date Collected: 01.18.18 09.10

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039235

Date Prep: 01.23.18 16.45

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.60	4.98	mg/kg	01.23.18 20.33		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039135

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 03.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 03.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 03.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 03.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	117	%	70-135	01.24.18 03.32		
o-Terphenyl	84-15-1	117	%	70-135	01.24.18 03.32		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 4-6**
Lab Sample Id: 573941-047

Matrix: Soil
Date Collected: 01.18.18 09.10

Date Received: 01.18.18 17.00
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.24.18 02.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 02.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.24.18 02.28		
1,4-Difluorobenzene	540-36-3	98	%	80-120	01.24.18 02.28		



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OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 6-8**
Lab Sample Id: 573941-048

Matrix: Soil
Date Collected: 01.18.18 09.20

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039235

Date Prep: 01.23.18 16.45

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	01.23.18 20.40	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039135

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 03.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 03.52	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 03.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 03.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.24.18 03.52	
o-Terphenyl	84-15-1	107	%	70-135	01.24.18 03.52	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 6-8**
Lab Sample Id: 573941-048

Matrix: Soil
Date Collected: 01.18.18 09.20

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.24.18 02.46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.24.18 02.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	80-120	01.24.18 02.46		
1,4-Difluorobenzene	540-36-3	94	%	80-120	01.24.18 02.46		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 8-10 (1)**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-049

Date Collected: 01.18.18 09.30

Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 16.45

Basis: Wet Weight

Seq Number: 3039235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	01.23.18 20.47	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039135

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 04.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 04.12	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 04.12	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 04.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.24.18 04.12	
o-Terphenyl	84-15-1	107	%	70-135	01.24.18 04.12	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB8 8-10 (1)**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-049

Date Collected: 01.18.18 09.30

Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.24.18 03.05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.24.18 03.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	80-120	01.24.18 03.05		
1,4-Difluorobenzene	540-36-3	96	%	80-120	01.24.18 03.05		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 0-2**
Lab Sample Id: 573941-055

Matrix: Soil
Date Collected: 01.18.18 11.00

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039235

Date Prep: 01.23.18 16.45

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	01.23.18 21.07	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039135

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 04.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 04.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 04.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 04.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	117	%	70-135	01.24.18 04.32		
o-Terphenyl	84-15-1	113	%	70-135	01.24.18 04.32		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 0-2**
Lab Sample Id: 573941-055

Matrix: Soil
Date Collected: 01.18.18 11.00

Date Received: 01.18.18 17.00
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.24.18 03.24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 03.24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	80-120	01.24.18 03.24		
4-Bromofluorobenzene	460-00-4	83	%	80-120	01.24.18 03.24		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 2-4**
Lab Sample Id: 573941-056

Matrix: Soil
Date Collected: 01.18.18 11.10

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: OJS
Seq Number: 3039235

Date Prep: 01.23.18 16.45

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	01.23.18 21.14	U	1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3039135

Date Prep: 01.23.18 14.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 04.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 04.52	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 04.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 04.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	01.24.18 04.52	
o-Terphenyl	84-15-1	107	%	70-135	01.24.18 04.52	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 2-4**
Lab Sample Id: 573941-056

Matrix: Soil
Date Collected: 01.18.18 11.10

Date Received: 01.18.18 17.00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.24.18 03.43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.24.18 03.43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.24.18 03.43		
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.24.18 03.43		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 4-6**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-057

Date Collected: 01.18.18 11.20

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 16.45

Basis: Wet Weight

Seq Number: 3039235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.70	5.01	mg/kg	01.23.18 21.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039135

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 05.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 05.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 05.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 05.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	01.24.18 05.14	
o-Terphenyl	84-15-1	108	%	70-135	01.24.18 05.14	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 4-6**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-057

Date Collected: 01.18.18 11.20

Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.24.18 04.02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 04.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	01.24.18 04.02		
1,4-Difluorobenzene	540-36-3	93	%	80-120	01.24.18 04.02		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 6-8**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-058

Date Collected: 01.18.18 11.30

Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 16.45

Basis: Wet Weight

Seq Number: 3039235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	01.23.18 21.28	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039135

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 05.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 05.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 05.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 05.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	01.24.18 05.35	
o-Terphenyl	84-15-1	104	%	70-135	01.24.18 05.35	



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 6-8**
Lab Sample Id: 573941-058

Matrix: Soil
Date Collected: 01.18.18 11.30

Date Received: 01.18.18 17.00
Sample Depth: 8 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3039105

Date Prep: 01.23.18 17.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.24.18 04.20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.24.18 04.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	01.24.18 04.20		
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.24.18 04.20		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 8-10**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-059

Date Collected: 01.18.18 11.40

Sample Depth: 10 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.23.18 16.45

Basis: Wet Weight

Seq Number: 3039235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.61	5.01	mg/kg	01.23.18 21.35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.23.18 14.00

Basis: Wet Weight

Seq Number: 3039135

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.24.18 05.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.24.18 05.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.24.18 05.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.24.18 05.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.24.18 05.55		
o-Terphenyl	84-15-1	108	%	70-135	01.24.18 05.55		



Certificate of Analytical Results 573941



OWL SWD Operating LLC, Dallas, TX

IRP-4820

Sample Id: **SB10 8-10**

Matrix: Soil

Date Received: 01.18.18 17.00

Lab Sample Id: 573941-059

Date Collected: 01.18.18 11.40

Sample Depth: 10 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.23.18 17.00

Basis: Wet Weight

Seq Number: 3039105

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.24.18 04.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.24.18 04.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	01.24.18 04.39		
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.24.18 04.39		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 573941

OWL SWD Operating LLC IRP-4820

Analytical Method: Chloride by EPA 300

Seq Number: 3039239

MB Sample Id: 7637928-1-BLK

Matrix: Solid

LCS Sample Id: 7637928-1-BKS

Prep Method: E300P

Date Prep: 01.23.18

LCSD Sample Id: 7637928-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	255	102	90-110	1	20	mg/kg	01.23.18 15:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3039235

MB Sample Id: 7637929-1-BLK

Matrix: Solid

LCS Sample Id: 7637929-1-BKS

Prep Method: E300P

Date Prep: 01.23.18

LCSD Sample Id: 7637929-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	252	101	90-110	4	20	mg/kg	01.23.18 19:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3039239

Parent Sample Id: 573941-012

Matrix: Soil

MS Sample Id: 573941-012 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 573941-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1220	250	1340	48	1390	68	90-110	4	20	mg/kg	01.23.18 16:28	X

Analytical Method: Chloride by EPA 300

Seq Number: 3039239

Parent Sample Id: 573941-031

Matrix: Soil

MS Sample Id: 573941-031 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 573941-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.7	249	248	90	279	103	90-110	12	20	mg/kg	01.23.18 18:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3039235

Parent Sample Id: 573941-046

Matrix: Soil

MS Sample Id: 573941-046 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 573941-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	262	104	271	108	90-110	3	20	mg/kg	01.23.18 20:19	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 573941

OWL SWD Operating LLC IRP-4820

Analytical Method: Chloride by EPA 300

Seq Number: 3039235

Parent Sample Id: 573970-001

Matrix: Soil

MS Sample Id: 573970-001 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 573970-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	910	249	1180	108	1140	92	90-110	3	20	mg/kg	01.23.18 21:56	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039134

MB Sample Id: 7637987-1-BLK

Matrix: Solid

LCS Sample Id: 7637987-1-BKS

Prep Method: TX1005P

Date Prep: 01.23.18

LCSD Sample Id: 7637987-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	855	86	1000	100	70-135	16	35	mg/kg	01.23.18 16:27	
Diesel Range Organics (DRO)	<15.0	1000	969	97	1130	113	70-135	15	35	mg/kg	01.23.18 16:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		110		124		70-135	%	01.23.18 16:27
o-Terphenyl	115		119		122		70-135	%	01.23.18 16:27

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039135

MB Sample Id: 7637989-1-BLK

Matrix: Solid

LCS Sample Id: 7637989-1-BKS

Prep Method: TX1005P

Date Prep: 01.23.18

LCSD Sample Id: 7637989-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	842	84	828	83	70-135	2	35	mg/kg	01.24.18 01:53	
Diesel Range Organics (DRO)	<15.0	1000	971	97	931	93	70-135	4	35	mg/kg	01.24.18 01:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		111		113		70-135	%	01.24.18 01:53
o-Terphenyl	102		103		115		70-135	%	01.24.18 01:53

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039134

Parent Sample Id: 573941-010

Matrix: Soil

MS Sample Id: 573941-010 S

Prep Method: TX1005P

Date Prep: 01.23.18

MSD Sample Id: 573941-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	892	89	860	86	70-135	4	35	mg/kg	01.23.18 17:26	
Diesel Range Organics (DRO)	<15.0	1000	984	98	967	97	70-135	2	35	mg/kg	01.23.18 17:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		117		70-135	%	01.23.18 17:26
o-Terphenyl	129		126		70-135	%	01.23.18 17:26

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 573941

OWL SWD Operating LLC IRP-4820

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039135

Parent Sample Id: 573941-046

Matrix: Soil

MS Sample Id: 573941-046 S

Prep Method: TX1005P

Date Prep: 01.23.18

MSD Sample Id: 573941-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	925	93	981	98	70-135	6	35	mg/kg	01.24.18 02:53	
Diesel Range Organics (DRO)	<15.0	999	1040	104	1080	108	70-135	4	35	mg/kg	01.24.18 02:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		119		70-135	%	01.24.18 02:53
o-Terphenyl	128		124		70-135	%	01.24.18 02:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039101

MB Sample Id: 7637968-1-BLK

Matrix: Solid

LCS Sample Id: 7637968-1-BKS

Prep Method: SW5030B

Date Prep: 01.23.18

LCSD Sample Id: 7637968-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.101	101	0.0940	94	70-130	7	35	mg/kg	01.23.18 14:18	
Toluene	<0.00200	0.0998	0.0911	91	0.0896	90	70-130	2	35	mg/kg	01.23.18 14:18	
Ethylbenzene	<0.00200	0.0998	0.0890	89	0.0863	86	71-129	3	35	mg/kg	01.23.18 14:18	
m,p-Xylenes	<0.00399	0.200	0.176	88	0.173	87	70-135	2	35	mg/kg	01.23.18 14:18	
o-Xylene	<0.00200	0.0998	0.0892	89	0.0868	87	71-133	3	35	mg/kg	01.23.18 14:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		106		103		80-120	%	01.23.18 14:18
4-Bromofluorobenzene	84		93		94		80-120	%	01.23.18 14:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039105

MB Sample Id: 7637970-1-BLK

Matrix: Solid

LCS Sample Id: 7637970-1-BKS

Prep Method: SW5030B

Date Prep: 01.23.18

LCSD Sample Id: 7637970-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0891	89	0.0941	93	70-130	5	35	mg/kg	01.23.18 23:58	
Toluene	<0.00200	0.100	0.0867	87	0.0915	91	70-130	5	35	mg/kg	01.23.18 23:58	
Ethylbenzene	<0.00200	0.100	0.0825	83	0.0884	88	71-129	7	35	mg/kg	01.23.18 23:58	
m,p-Xylenes	<0.00401	0.200	0.165	83	0.177	88	70-135	7	35	mg/kg	01.23.18 23:58	
o-Xylene	<0.00200	0.100	0.0841	84	0.0906	90	71-133	7	35	mg/kg	01.23.18 23:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		102		112		80-120	%	01.23.18 23:58
4-Bromofluorobenzene	90		88		107		80-120	%	01.23.18 23:58

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 573941

OWL SWD Operating LLC IRP-4820

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039242

MB Sample Id: 7638039-1-BLK

Matrix: Solid

LCS Sample Id: 7638039-1-BKS

Prep Method: SW5030B

Date Prep: 01.24.18

LCSD Sample Id: 7638039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0952	95	0.0956	96	70-130	0	35	mg/kg	01.24.18 16:35	
Toluene	<0.00200	0.100	0.0980	98	0.0980	98	70-130	0	35	mg/kg	01.24.18 16:35	
Ethylbenzene	<0.00200	0.100	0.104	104	0.104	104	71-129	0	35	mg/kg	01.24.18 16:35	
m,p-Xylenes	<0.00401	0.200	0.205	103	0.206	104	70-135	0	35	mg/kg	01.24.18 16:35	
o-Xylene	<0.00200	0.100	0.101	101	0.102	102	71-133	1	35	mg/kg	01.24.18 16:35	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	87		94		93		80-120			%	01.24.18 16:35	
4-Bromofluorobenzene	88		99		98		80-120			%	01.24.18 16:35	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039101

Parent Sample Id: 573941-028

Matrix: Soil

MS Sample Id: 573941-028 S

Prep Method: SW5030B

Date Prep: 01.23.18

MSD Sample Id: 573941-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0908	90	0.0854	85	70-130	6	35	mg/kg	01.23.18 15:04	
Toluene	<0.00202	0.101	0.0888	88	0.0824	82	70-130	7	35	mg/kg	01.23.18 15:04	
Ethylbenzene	<0.00202	0.101	0.0871	86	0.0772	77	71-129	12	35	mg/kg	01.23.18 15:04	
m,p-Xylenes	<0.00404	0.202	0.174	86	0.155	77	70-135	12	35	mg/kg	01.23.18 15:04	
o-Xylene	<0.00202	0.101	0.0861	85	0.0774	77	71-133	11	35	mg/kg	01.23.18 15:04	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			119		112		80-120			%	01.23.18 15:04	
4-Bromofluorobenzene			110		113		80-120			%	01.23.18 15:04	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039105

Parent Sample Id: 573941-046

Matrix: Soil

MS Sample Id: 573941-046 S

Prep Method: SW5030B

Date Prep: 01.23.18

MSD Sample Id: 573941-046 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0649	65	0.0649	64	70-130	0	35	mg/kg	01.24.18 11:41	X
Toluene	<0.00200	0.100	0.0618	62	0.0710	70	70-130	14	35	mg/kg	01.24.18 11:41	X
Ethylbenzene	<0.00200	0.100	0.0594	59	0.0575	57	71-129	3	35	mg/kg	01.24.18 11:41	X
m,p-Xylenes	<0.00401	0.200	0.119	60	0.102	50	70-135	15	35	mg/kg	01.24.18 11:41	X
o-Xylene	<0.00200	0.100	0.0593	59	0.0695	69	71-133	16	35	mg/kg	01.24.18 11:41	X
Surrogate				MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene				98		112		80-120		%	01.24.18 11:41	
4-Bromofluorobenzene				91		115		80-120		%	01.24.18 11:41	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 573941

OWL SWD Operating LLC IRP-4820

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039242

Parent Sample Id: 574310-001

Matrix: Soil

MS Sample Id: 574310-001 S

Prep Method: SW5030B

Date Prep: 01.24.18

MSD Sample Id: 574310-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0792	78	0.0797	79	70-130	1	35	mg/kg	01.24.18 17:13	
Toluene	<0.00201	0.101	0.0807	80	0.0807	80	70-130	0	35	mg/kg	01.24.18 17:13	
Ethylbenzene	<0.00201	0.101	0.0812	80	0.0807	80	71-129	1	35	mg/kg	01.24.18 17:13	
m,p-Xylenes	<0.00402	0.201	0.160	80	0.159	79	70-135	1	35	mg/kg	01.24.18 17:13	
o-Xylene	<0.00201	0.101	0.0799	79	0.0789	78	71-133	1	35	mg/kg	01.24.18 17:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		87		80-120	%	01.24.18 17:13
4-Bromofluorobenzene	104		100		80-120	%	01.24.18 17:13

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

5

576941

Client / Reporting Information				Project Information										Analytical Information			Matrix Codes		
Company Name / Branch: OWL SWD Operating, LLC				Project Name/Number: LRP-4820 / owl091317D															
Company Address: 8214 Westlaster Dr #850 Dallas, TX 75225				Project Location: Jal, NM															
Email: psanders@oilfieldwaterlogistics.com				Invoice To: owl															
Phone No:																			
Project Contact: Phillip Sanders 210 906-3557				PO Number:															
Samplers Name: Sams Fox																			
No.	Field ID / Point of Collection	Collection			Number of preserved bottles								Field Comments						
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4				MeOH	NONE		
1	Bln 0-2	2'	1/17/18	1030	S	2									X	TPH	* Please hold all samples until approved to run analysis		
2	Bln 2-4	4'													X	BTEX			
3	Bln 4-6	6'		1050											X	Chlorides			
4	SB1 0-2	2'		1130															
5	SB1 2-4	4'		1140															
6	SB1 4-6	6'		1150															
7	SB1 6-8	8'		1200															
8	SB1 8-10	10'		1210															
9	SB1 10-11.5	11.5'		1220															
10	SB2 0-2	2'		1230															
Turnaround Time (Business days)				Data Deliverable Information															
☐ Same Day TAT		☒ 5 Day TAT		☐ Level II Std QC		☐ Level IV (Full Data Pkg raw data)													
☐ Next Day EMERGENCY		☐ 7 Day TAT		☐ Level III Std QC+ Forms		☐ TRRP Level IV													
☐ 2 Day EMERGENCY		☐ Contract TAT		☐ Level 3 (CLP Forms)		☐ UST / RG -411													
☐ 3 Day EMERGENCY				☐ Level II Report with TRRP checklist															
TAT Starts Day received by Lab, if received by 5:00 pm																			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLE CHANGE POSSESSION, INCLUDING COURIER DELIVERY																			
Relinquished by Sampler <i>[Signature]</i>		Date Time: 1/18/18 1700		Received By: <i>[Signature]</i>		Relinquished By: <i>[Signature]</i>		Date Time:		FED-E:									
Relinquished by:		Date Time:		Received By:		Relinquished By:		Date Time:											
3		Date Time:		Received By:		Relinquished By:		Date Time:											
Relinquished by:		Date Time:		Received By:		Relinquished By:		Date Time:											
5		Date Time:		Received By:		Relinquished By:		Date Time:											
Notes:																			
* Please email reports to: james@kiewitenvironmental.com dena@kiewitenvironmental.com																			
Temp: 2.20c IIR ID: R-8 CF: (0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: 2.00c																			
On Ice Cooler Temp. Thermo. Corr. Factor																			

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San Antonio, TX (210) 509-3334

Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge

Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550

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Xenco Job #

573941

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes				
Company Name / Branch:				Project Name/Number: IRP-4820 / owl 091317D												
Company Address:				Project Location: Jal, NM												
Email: see page #1				Invoice To: owl												
Phone No:																
Project Contact:				PO Number:												
Sampler's Name:																
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix bottles	# of HCl	NaOH/Zn Acetate	HNO ₃	H ₂ SO ₄	NaOH	NaHSO ₄	MEOH	NONE	Notes:		
1	SB2 2-y	4'	1/17/18	1240	5	2							X	TPH	* See page #1	
2	SB2 4-b	6'		1250									X	BTEX		
3	SB2 6-8	8'		1300									X	Chlorides		
4	SB2 8-10	10'		1310												
5	SB2 10-11	11'		1320												
6	SB3 0-2	2'		1400												
7	SB3 2-4	4'		1410												
8	SB3 4-6	6'		1420												
9	SB3 6-8	8'		1430												
10	SB3 8-10	10'		1440												
Turnaround Time (Business days)															Data Deliverable Information	
☐ Same Day TAT				☒ 5 Day TAT				☐ Level II Std QC				☐ Level IV (Full Data Pkg / raw data)				
☐ Next Day EMERGENCY				☐ 7 Day TAT				☐ Level III Std QC+ Forms				☐ TRRP Level IV				
☐ 2 Day EMERGENCY				☐ Contract TAT				☐ Level 3 (CLP Forms)				☐ UST / RG -411				
☐ 3 Day EMERGENCY								☐ Level II Report with TRRP checklist								
TAT Starts Day received by Lab, if received by 5:00 pm																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #		FED-EX		
1 [Signature]		1/18/18 1700		1 [Signature]		1/18/18 1700		2 [Signature]		1/18/18 1700		4 [Signature]				
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Custody Seal #				
3 [Signature]		1/18/18 1700		3 [Signature]		1/18/18 1700		4 [Signature]		1/18/18 1700		4 [Signature]				
Temp: 2.2°C IR ID: R-8 CF: (-0.6; -0.2°C) (6-23; +0.2°C) Corrected Temp: 2.0°C																
Reinquinshed by:																
On Ice Cooler Temp. Thermo. Corr. Factor																



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San Antonio, TX (210) 509-3334

Phoenix, AZ (480) 355-0900
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Service Center - Amarillo, TX (806) 678-4514
Service Center - Hobbs, NM (575) 392-7550

CHAIN OF CUSTODY

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578941

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes						
Company Name / Branch:				Project Name/Number:														
Company Address:				Project Location:														
Email:				Invoice To:														
Project Contact:				PO Number:														
Samplers Name:																		
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	BTEX	Chlorides	Field Comments
1	SB5 8-10	10'	1/17/18	16:20	S	2									X	X	X	See pg #1
2	SB6 0-2	2'													X	X	X	
3	SB6 2-4	4'													X	X	X	
4	SB6 4-6	6'													X	X	X	
5	SB6 6-8	8'													X	X	X	
6	SB6 8-10	10'													X	X	X	
7	SB6 10-12	12'													X	X	X	
8	SB6 12-14	14'													X	X	X	
9	SB6 14-16	16'													X	X	X	
10	SB7 0-2	2'	1/18/18	08:00											X	X	X	
Turnaround Time (Business days)																		
Data Deliverable Information																		
Notes:																		
Same Day TAT ☒ 5 Day TAT ☐ Level II Std QC ☐ Level IV (Full Data Pkg/raw data) ☐																		
Next Day EMERGENCY ☐ 7 Day TAT ☐ Level III Std QC+ Forms ☐ TRRP Level IV ☐																		
2 Day EMERGENCY ☐ Contract TAT ☐ Level 3 (CLP Forms) ☐ UST / RG 411 ☐																		
3 Day EMERGENCY ☐ Level II Report with TRRP checklist ☐																		
TAT Starts Day received by Lab, if received by 5:00 pm																		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
Relinquished By Sampler: Date Time: 1/18/18 1:00 PM Received By: 1 Received By: 2																		
Relinquished By: Date Time: 1/18/18 1:00 PM Received By: 2 Relinquished By: 4																		
Relinquished By: Date Time: 1/18/18 1:00 PM Received By: 5																		
Custody Seal # Preserved Where applicable On Ice Cooler Temp. Thermo. Corr. Factor																		
Temp: 2.20°C IR ID: R-8																		
CF: (0-6: -0.2°C)																		
(6-23: +0.2°C)																		
Corrected Temp: 2.00°C																		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



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Service Center- Hobbs, NM (575) 392-7550

CHAIN OF CUSTODY

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Client / Reporting Information			Project Information			Analytical Information			Matrix Codes								
Company Name / Branch:			Project Name/Number:														
Company Address:			Project Location:														
Email:			Invoice To:														
Project Contact:			PO Number:														
Sampler's Name:																	
No.			Field ID / Point of Collection			Collection			Number of preserved bottles			Field Comments					
			Sample Depth			Date			Time			Matrix					
1	SB9	2-4	4'	1/18/18	1020	5	2									See pg #1	
2	SB9	4-6	6'		1030												
3	SB9	6-8	8'		1040												
4	SB9	8-10	10'		1050												
5	SB10	0-2	2'		1100												
6	SB10	2-4	4'		1110												
7	SB10	4-6	6'		1120												
8	SB10	6-8	8'		1130												
9	SB10	8-10	10'		1140												
10																	
Turnaround Time (Business days)						Data Deliverable Information						Notes:					
☐ Same Day TAT			☒ 5 Day TAT			☐ Level II Std QC			☐ Level IV (Full Data Pkg /raw data)			See page #1					
☐ Next Day EMERGENCY			☐ 7 Day TAT			☐ Level III Std QC+ Forms			☐ TRRP Level IV								
☐ 2 Day EMERGENCY			☐ Contract TAT			☐ Level 3 (CLP Forms)			☐ UST / RG -411								
☐ 3 Day EMERGENCY						☐ Level II Report with TRRP checklist											
TAT Starts Day received by Lab, if received by 5:00 pm																	
Relinquished by: <i>Sammy</i>			Date Time: <i>1/18/18 1700</i>			Received By: <i>[Signature]</i>			Relinquished By: <i>[Signature]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
Relinquished by: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>			Relinquished By: <i>[Blank]</i>			Date Time: <i>[Blank]</i>			Received By: <i>[Blank]</i>		
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: OWL SWD Operating LLC

Date/ Time Received: 01/18/2018 05:00:00 PM

Work Order #: 573941

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	Sample 60- SB4 4-6 (2) , 61- BG 6-8 and 62- SB8 8-10 (2) were not on COC
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Connie Hernandez

Date: 01/19/2018

Checklist reviewed by:

Kelsey Brooks

Date: 01/23/2018