

NM2 - ____19____

Cell 3

**Cease Tilling
Notice Acceptance**

Nov. 6, 2020

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Friday, November 6, 2020 1:40 PM
To: 'Boultinghouse, Stacy'
Cc: Christine Mathews; Tom Larson
Subject: RE: REVISED Notification of Cell 3 & 4 Tilling - Jal Landfarm (NM2-019)
Attachments: 2020 1106 NM2-019 ETC Field Services LLC Cease tilling for Cerll 3.pdf

Stacey,

I hope all is well. Please see the attached OCD response regarding the notice acceptance for Cell 3. If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Brad

Brad A. Jones
Environmental Engineer
EMNRD Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505
Phone/Mobile: (505) 469-7486
E-mail: brad.a.jones@state.nm.us

From: Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Sent: Friday, October 30, 2020 5:44 AM
To: Jones, Brad A., EMNRD <brad.a.jones@state.nm.us>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Christine Mathews <Christine.Mathews@ghd.com>; Tom Larson <tom.larson@ghd.com>
Subject: [EXT] REVISED Notification of Cell 3 & 4 Tilling - Jal Landfarm (NM2-019)

Good morning.

As per your verbal request to GHD, please find attached an updated/revised notification letter regarding the discontinuation of tilling in Cells 3 & 4.

This request has also been uploaded into the EMNRD Centrestack in Brad Billing's ETC folder.

Thank you.

"of all the paths you take in life,
make sure a few of them are dirt"



Stacy Boultinghouse, PG_(TX4889/LA73)
EH&S Environmental-Sr. Manager
Emergency Response/Remediation/ Waste/Water
Energy Transfer

O: 210.870.2725
C: 281.740.0494

This email may contain confidential attorney-client privileged information or attorney work product. If you received this email in error, please contact me at one of the above phone numbers.

From: Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Sent: Monday, September 21, 2020 7:22 AM
To: Jones, Brad A., EMNRD <brad.a.jones@state.nm.us>
Cc: Brad Billings (bradford.billings@state.nm.us) <bradford.billings@state.nm.us>; Christine Mathews <Christine.Mathews@ghd.com>; Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Subject: RE: 2019 Annual Report - Jal Landfarm (NM2-019)

Good morning.

Please find attached a formal request to Cease Tilling in Cells 3 & 4 for the above reference Site. ETC understands that NMOCD staff continue to work from home for their health and safety; however, ETC sincerely requests approval to cease tilling such that we are not continuing to spend unnecessary funds on this project.

This request has also been uploaded into the EMNRD Centrestack in Brad Billing's ETC folder.

Let us know if you have any questions.

Thank you.

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State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



November 6, 2020

Stacey Boultinghouse
ETC Field Services LLC
800 E. Sonterra Boulevard, Suite 400
San Antonio, Texas 78258

Re: Notification that Tilling of Landfarm Cells Will Cease
ETC Field Services LLC
Permit NM2-019
Location: Unit F of Section 36, Township 23 South, Range 36 East, NMPM,
Lea County, New Mexico

Dear Ms. Boultinghouse:

The Oil Conservation Division (OCD) has reviewed ETC Field Services LLC's (ETC) original notice dated September 18, 2020 and the revised notice, dated October 29, 2020 and emailed to OCD on October 30, 2020, to OCD that ETC will cease the bi-weekly tilling in all landfarm cells and to demonstrate compliance to the cease tilling monitoring for Landfarm Cells 3 and 4, based upon the conditions of OCD's October 26, 2017 minor modification request approval.

Condition 2 of OCD's October 26, 2017 minor modification request approval requires compliance to following:

ETC shall continue to till/disk cells that show hydrocarbon and VOC concentrations above the treatment zone closure standards of 19.15.36.15.F NMAC on a bi-weekly basis. When a cell has met the following for two consecutive sampling events, tilling will cease in that cell:

- o Benzene, as determined by EPA SW-846 Method 8021B or 8260B, shall not exceed 0.2 mg/kg;
- o Total BTEX, as determined by EPA SW-846 Method 8021B or 8260B, shall not exceed 50 mg/kg;
- o GRO/DRO combined fractions, as determined by EPA SW-846 Method 8015M, shall not exceed 500 mg/kg; and

- o TPH, as determined by EPA Method 418.1 or other EPA Method approved by the division, shall not exceed 2500 mg/kg. ETC will analyze TPH using EPA Method 8015 (C6 extended to C35);

Based upon the analytical results of Benzene, BTEX, GRO/DRO combined fractions, and TPH from the sampling events of May 30, 2019 and March 26, 2020, the OCD hereby agrees with the cease tilling notification for Cell 3. ETC must continue tilling Cell 4 until it can demonstrate two consecutive sampling events of all the constituents required of Condition 2 of OCD's October 26, 2017 minor modification request approval.

Please be advised that approval of this notice does not relieve ETC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve ETC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 469-7486 or brad.a.jones@state.nm.us.

Respectfully,



Brad A. Jones
Environmental Engineer

BAJ/baj

Jones, Brad A., EMNRD

From: Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Sent: Friday, October 30, 2020 5:44 AM
To: Jones, Brad A., EMNRD
Cc: Billings, Bradford, EMNRD; Christine Mathews; Tom Larson
Subject: [EXT] REVISED Notification of Cell 3 & 4 Tilling - Jal Landfarm (NM2-019)
Attachments: 11208903 Jones01-2020 Cease Tilling Notification Rev 1.pdf

Good morning.

As per your verbal request to GHD, please find attached an updated/revised notification letter regarding the discontinuation of tilling in Cells 3 & 4.

This request has also been uploaded into the EMNRD Centrestack in Brad Billing's ETC folder.

Thank you.

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Stacy Boultinghouse, PG(TX4889/LA73)
EH&S Environmental-Sr. Manager
Emergency Response/Remediation/ Waste/Water
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Subject: RE: 2019 Annual Report - Jal Landfarm (NM2-019)

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Please find attached a formal request to Cease Tilling in Cells 3 & 4 for the above reference Site. ETC understands that NMOCD staff continue to work from home for their health and safety; however, ETC sincerely requests approval to cease tilling such that we are not continuing to spend unnecessary funds on this project.

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Stacy Boultinghouse, PG(TX4889/LA73)

EH&S Environmental-Sr. Manager

Emergency Response/Remediation/ Waste/Water

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Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.



October 29, 2020

Reference No. 11208903

Mr. Brad Jones
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Jones:

**Re: ETC Field Services LLC Jal No. 4 Landfarm
Notification that Tilling of Landfarm Cells Will Cease
Lea County, New Mexico, Permit NM-2-019**

On behalf of ETC Field Services LLC (ETC), GHD Services Inc. (GHD) is notifying the New Mexico Oil Conservation Division that bi-weekly tilling of Landfarm Cells 3 and 4 will cease. The ETC Jal No. 4 Landfarm is located in Lea County, New Mexico. The facility is located approximately 10 miles north of Jal, New Mexico to the south of Deep Wells Road and approximately 2 miles west of Highway 18 in Lea County. The area surrounding the Landfarm is used for cattle grazing and oil and gas production. In 2018, bi-weekly tilling ceased in Landfarm Cells 1, 2, and 4 through 15. However, bi-weekly tilling in Cell 4 resumed.

Landfarmed soils within each cell have been disked, at minimum, on a bi weekly schedule in accordance with the existing permit and closure plan to promote the degradation of hydrocarbon concentrations. The analytical data for concentrations of total petroleum hydrocarbons (TPH) in the treatment zone indicate that TPH now meets the permit and closure plan action levels since November 2019 in Cells 3 and 4.

Sample Location	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (C6 to C12) (mg/kg)	TPH-DRO (>C12 to C28) (mg/kg)	TPH-ORO (>C28 to C35) (mg/kg)	TPH GRO/DRO Total (C6 to C28) (mg/kg)	TPH GRO/DRO/ ORO Total (C6 to C35) (mg/kg)	TRPH by 418.1 (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria		0.2	50	NE			500	2,500	2,500	1000
TZ Cell 3	11/13/19	NA	NA	<4.6	270	840	270	1110	NA	<60
	3/26/20	<0.024	<0.212	<4.7	290	690	290	980	NA	<60
	8/27/20	NA	NA	<4.9	290	750	290	1040	NA	<7.5
TZ Cell 4	11/13/19	NA	NA	<4.7	110	330	110	440	NA	<60
	3/26/20	<0.025	<0.225	<5.0	52	120	52	172	NA	<60
	8/27/20	NA	NA	<4.9	43	150	43	193	NA	<7.5

Mg/Kg – milligrams per kilogram





Based on the data, continued tilling of Landfarm Cells 3 and 4 is no longer beneficial and will only contribute to soil erosion. The laboratory analytical reports from November 2019 to present are attached as well as historical data summary tables for both Cells 3 and 4.

If you have any questions or require additional information, please feel free to contact us at (505) 884-0672, or christine.mathews@ghd.com or tom.larson@ghd.com.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Christine Mathews". The signature is fluid and cursive, with the first and last names being more prominent.

Christine Mathews,
Project Manager

CM/mk/01

Encl.

cc: Stacy Boultinghouse, Energy Transfer

A handwritten signature in blue ink that reads "Thomas Larson". The signature is cursive, with the first and last names clearly legible.

Tom Larson
Senior Project Manager

**Treatment Zone Soil Analytical
Cell 3 and Cell 4
Data Summary - TPH and Chloride
Jal No. 4 Landfarm
ETC Field Services LLC**

Sample Location	Grid Location	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (C6 to C12) (mg/kg)	TPH-DRO (>C12 to C28) (mg/kg)	TPH-ORO (>C28 to C35) (mg/kg)	TPH GRO/DRO Total (C6 to C28) (mg/kg)	TPH GRO/DRO/ ORO Total (C6 to C35) (mg/kg)	TRPH by 418.1 (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria			0.2	50	NE			500	2,500	2,500	1000
TZ Cell 3	G1	12/15/09	NA	NA	<307	3,860	538	3,860	4,398	NA	16.2
		6/14/10	NA	NA	<154	3,540	373	3,540	3,913	NA	21.5
		12/1/10	NA	NA	<15.3	3,070	58.9	3,070	3,129	NA	9.53
		6/14/11	NA	NA	<15.1	3,250	317	3,250	3,567	NA	14.3
		11/28/11	NA	NA	<15.3	3760	870	3760	4630	NA	13.2
		6/14/12	NA	NA	<77.3	4,050	468	4,050	4,518	NA	12.3
		10/30/12	NA	NA	<15.3	3,590	319	3,590	3,909	NA	3.87
		5/22/13	NA	NA	20.6	3,560	749	3,581	4,330	NA	28.3
		11/14/13	NA	NA	21.3	4,230	199	4,251	4,450	NA	3.87
	G2	12/15/09	NA	NA	<16.8	630	67.5	630	697.5	NA	26.3
		6/14/10	NA	NA	<154	3,420	364	3,420	3,784	NA	22.7
		12/1/10	NA	NA	<15.2	4,470	287	4,470	4,757	NA	9.39
		6/14/11	NA	NA	<15.2	3,720	<15.2	3,720	3720	NA	25
		11/28/11	NA	NA	<15.4	4,790	913	4,790	5,703	NA	45.2
		6/14/12	NA	NA	<75.8	5,410	398	5,410	5,808	NA	12.5
		10/30/12	NA	NA	<15.4	3,900	311	3,900	4,211	NA	16.8
		5/22/13	NA	NA	<15.2	2,890	1,140	2,890	4,030	NA	27.3
		11/14/13	NA	NA	19.9	4,280	191	4,300	4,491	NA	16.8
	G3	12/15/09	NA	NA	<80.9	2,930	365	2,930	3,295	NA	26.6
		6/14/10	NA	NA	<159	4,830	515	4,830	5,345	NA	26.3
		12/1/10	NA	NA	<15.1	3,490	112	3,490	3,602	NA	10.6
		6/14/11	NA	NA	<15.2	3,290	<15.2	3,290	3290	NA	10.9
		11/28/11	NA	NA	<15.2	4,330	1,010	4,330	5,340	NA	16.5
		6/14/12	NA	NA	<75.5	3,720	411	3,720	4,131	NA	9.49
		10/30/12	NA	NA	<15.2	3,380	276	3,380	3,656	NA	6.02
		5/22/13	NA	NA	<15.1	3,840	535	3,840	4,375	NA	13.8
		11/14/13	NA	NA	20.8	4,220	213	4,241	4,454	NA	6.02

Treatment Zone Soil Analytical
Cell 3 and Cell 4
Data Summary - TPH and Chloride
Jal No. 4 Landfarm
ETC Field Services LLC

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New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria			0.2	50	NE			500	2,500	2,500	1000
TZ Cell 3 Cont.	G4	12/15/09	NA	NA	<81.9	2,120	247	2,120	2,367	NA	15.8
		6/14/10	NA	NA	<169	4,440	488	4,440	4,928	NA	15.6
		12/01/10	NA	NA	<15.2	4,340	220	4,340	4,560	NA	<8.55
		6/14/11	NA	NA	22	3,750	<15.1	3,772	3,750	NA	9.3
		11/28/11	NA	NA	<15.2	4,070	893	4,070	4,963	NA	50.7
		6/14/12	NA	NA	<75.4	4,800	448	4,800	5,248	NA	10.8
		10/30/12	NA	NA	<15.4	2,810	226	2,810	3,036	NA	6.05
		5/22/13	NA	NA	<75.2	5150	900	5150	6050	NA	13.7
	G5	11/14/13	NA	NA	22.5	5030	226	5052.5	5278.5	NA	31.1
		12/15/09	NA	NA	<16.8	489	47.4	489	536.4	NA	17.8
		6/14/10	NA	NA	<153	4,540	506	4,540	5,046	NA	15.1
		12/1/10	NA	NA	<15.4	3,830	54.9	3,830	3,885	NA	10.8
		6/14/11	NA	NA	19.5	3,100	<15.2	3,120	3119.5	NA	23.2
		11/28/11	NA	NA	<15.2	4,690	1,020	4,690	5,710	NA	21.6
		6/14/12	NA	NA	<75.8	3,780	414	3,780	4,194	NA	11.8
		10/30/12	NA	NA	<15.3	3,030	246	3,030	3,276	NA	6.11
	CS	5/22/13	NA	NA	<15.2	3,580	823	3,580	4,403	NA	15.9
		11/14/13	NA	NA	20.4	4,410	182	4,430	4,612	NA	31.6
		8/5/14	NA	NA	<20.0	163	NA	163	NA	NA	25.7
		2/26/15	<0.00533	<0.0116	<2.32	175	NA	175	NA	366	20.6
		5/27/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
		8/12/15	<0.100	<0.400	<20.0	1,080	NA	1,080	NA	52.2	32.7
		2/16/16	NA	NA	<4.8	630	NA	630	NA	NA	<1.5
		8/31/16	Data inconclusive due to laboratory error								
		11/21/16	NA	NA	<4.7	270	630	270	900	NA	<30
		2/24/17	<0.023	<0.210	<4.7	1100	1800	1100	2900	NA	<30
		9/21/17	<0.023	<0.212	<4.7	850	1600	850	2450	NA	<30
		1/4/18	<0.024	0.168	<4.7	780	1700	780	2480	NA	<30
		5/29/18	NA	NA	<4.8	1300	2500	1300	3800	NA	NS
		11/14/18	NA	NA	<5.3	570	900	570	1470	NA	<33
		5/30/19	<0.025	<0.224	<5.0	470	1100	470	1570	NA	<15
		11/13/19	NA	NA	<4.6	270	840	270	1110	NA	<60
		3/26/20	<0.024	<0.212	<4.7	290	690	290	980	NA	<60
		8/27/20	NA	NA	<4.9	290	750	290	1040	NA	<7.5

**Treatment Zone Soil Analytical
Cell 3 and Cell 4
Data Summary - TPH and Chloride
Jal No. 4 Landfarm
ETC Field Services LLC**

Sample Location	Grid Location	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (C6 to C12) (mg/kg)	TPH-DRO (>C12 to C28) (mg/kg)	TPH-ORO (>C28 to C35) (mg/kg)	TPH GRO/DRO Total (C6 to C28) (mg/kg)	TPH GRO/DRO/ ORO Total (C6 to C35) (mg/kg)	TRPH by 418.1 (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria			0.2	50	NE			500	2,500	2,500	1000
TZ Cell 4	G1	12/15/09	NA	NA	<18.14	428	32.2	428	460	NA	18
		6/14/10	NA	NA	<155	3,830	304	3830	4134	NA	37.7
		12/01/10	NA	NA	<15.3	3,120	52.6	3120	3173	NA	32.6
		6/14/11	NA	NA	<15.2	2,790	<15.2	2790	2790	NA	33
		11/28/11	NA	NA	<15.2	3,270	779	3270	4049	NA	33.6
		6/14/12	NA	NA	<75.8	4,100	410	4100	4510	NA	19.8
		10/30/12	NA	NA	<15.5	2,650	265	2650	2915	NA	18
		5/22/13	NA	NA	<76.1	5,230	855	5230	6085	NA	45
		11/14/13	NA	NA	17	3,560	145	3577	3722	NA	57.1
	G2	12/15/09	NA	NA	<80.1	3,320	339	3320	3659	NA	39.7
		6/14/10	NA	NA	<154	1,910	<154	1910	1910	NA	36.1
		12/01/10	NA	NA	<15.4	3,240	36.6	3240	3277	NA	33.6
		6/14/11	NA	NA	17.6	3,560	16.6	3578	3594	NA	39
		11/28/11	NA	NA	<15.2	4,270	1,050	4270	5320	NA	22.5
		6/14/12	NA	NA	<76.1	3,860	422	3860	4282	NA	25.2
		10/30/12	NA	NA	<15.6	2,340	228	2340	2568	NA	27.2
		5/22/13	NA	NA	<15.3	4,370	478	4370	4848	NA	39.6
		11/14/13	NA	NA	17.5	3,290	87.3	3308	3395	NA	63.9
	G3	12/15/09	NA	NA	<19.6	436	31.4	436	467	NA	9.49
		6/14/10	NA	NA	<160	3,460	276	3460	3736	NA	41
		12/01/10	NA	NA	<15.3	3,180	64.5	3180	3245	NA	43.1
		6/14/11	NA	NA	20.9	3,710	19.2	3731	3750	NA	52.3
		11/28/11	NA	NA	<15.2	3,470	764	3470	4234	NA	76.3
		6/14/12	NA	NA	<15.1	2,930	75.3	2930	3005	NA	24
		10/30/12	NA	NA	<15.5	2,800	258	2800	3058	NA	18
		5/22/13	NA	NA	<15.3	3,690	428	3690	4118	NA	68
		11/14/13	NA	NA	<15.5	2,500	67.7	2500	2568	NA	73.9

Treatment Zone Soil Analytical
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Jal No. 4 Landfarm
ETC Field Services LLC

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New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria			0.2	50	NE			500	2,500	2,500	1000
TZ Cell 4 Cont.	G4	12/15/09	NA	NA	<18.3	302	22.4	302	324.4	NA	16.1
		6/14/10	NA	NA	<154	2,170	167	2170	2337	NA	126
		12/01/10	NA	NA	<15.4	2,330	47.9	2330	2378	NA	80.6
		6/14/11	NA	NA	<15.2	2,350	<15.2	2350	2350	NA	57.7
		11/28/11	NA	NA	<152	6,420	1,750	6420	8170	NA	12.2
		6/14/12	NA	NA	<15.2	2,600	82.5	2600	2683	NA	52.8
		10/30/12	NA	NA	<15.4	1,910	183	1910	2093	NA	35.7
		5/22/13	NA	NA	<15.1	2,780	436	2780	3216	NA	82
		11/14/13	NA	NA	16.1	2,280	89.9	2296	2386	NA	92.4
	G5	12/15/09	NA	NA	<16.8	489	47.4	489	536	NA	17.8
		6/14/10	NA	NA	<153	3,170	276	3170	3446	NA	75.9
		12/01/10	NA	NA	<15.3	2,470	41.7	2470	2512	NA	74.6
		6/14/11	NA	NA	<15.1	2,210	<15.1	2210	2210	NA	79.7
		11/28/11	NA	NA	<15.3	3,540	868	3540	4408	NA	81.1
		6/14/12	NA	NA	<15.2	2,580	82.2	2580	2662	NA	25.7
		10/30/12	NA	NA	<15.5	1,920	170	1920	2090	NA	33.6
		5/22/13	NA	NA	<15.2	3,120	517	3120	3637	NA	62.7
		11/14/13	NA	NA	18.3	3,370	134	3388	3522	NA	71.5

Treatment Zone Soil Analytical
Cell 3 and Cell 4
Data Summary - TPH and Chloride
Jal No. 4 Landfarm
ETC Field Services LLC

Sample Location	Grid Location	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (C6 to C12) (mg/kg)	TPH-DRO (>C12 to C28) (mg/kg)	TPH-ORO (>C28 to C35) (mg/kg)	TPH GRO/DRO Total (C6 to C28) (mg/kg)	TPH GRO/DRO/ ORO Total (C6 to C35) (mg/kg)	TRPH by 418.1 (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Landfarm Closure Criteria			0.2	50	NE			500	2,500	2,500	1000
TZ Cell 4 Cont.	CS	8/5/14	NA	NA	<20.0	140	NA	140	NA	NA	38.9
		2/26/15	<0.00533	<0.0116	<2.32	902	NA	902	NA	5,640	10.4
		5/27/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
		8/12/15	<0.100	<0.400	<20.0	226	NA	226	NA	44.6	32.2
		2/16/16	NA	NA	<4.7	420	NA	420	NA	NA	2.9
		8/31/16	Data inconclusive due to laboratory error								
		11/22/16	NA	NA	<4.7	300	510	300	810	NA	<30
		2/24/17	<0.024	<0.217	<4.8	140	250	140	390	NA	<30
		9/21/17	<0.024	<0.219	<4.9	180	390	180	570	NA	<30
		11/29/17	<0.024	<0.217	<4.8	390	620	390	1110	NA	<30
		5/29/18	<0.018	<0.162	<3.6	850	1200	3070	3128.9	NA	<30
		11/14/18	NA	NA	<5.5	210	260	210	470	NA	<34
		5/30/19	<0.025	0.221	<4.9	630	1100	630	1730	NA	<3.1
		11/13/19	NA	NA	<4.7	110	330	110	440	NA	<60
		3/26/20	<0.025	<0.225	<5.0	52	120	52	172	NA	<60
		8/27/20	NA	NA	<4.9	43	150	43	193	NA	<7.5

Notes:

TZ = Treatment Zone

CS= Composite Sample

mg/kg = milligrams per kilogram

TPH = Total Petroleum Hydrocarbons

GRO/DRO = Gasoline/Diesol Range Organics

BTEX = Benzene + Toluene + Ethylbenzene + Xylenes

NS = Not Sampled

NA = Not Analyzed

Concentrations in **Bold** exceed the New Mexico Oil Conservation Division Landfarm Closure Criteria

Analytical Data 2019



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 02, 2020

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Jal 4 Landfarm

OrderNo.: 1911678

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 60 sample(s) on 11/15/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 31, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-001

Collection Date: 11/13/2019 9:50:00 AM

Client Sample ID: S-082148-111319-CN-C1-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Arsenic	7.5	5.2		mg/Kg	2	12/6/2019 11:50:33 AM	48975
Barium	100	0.21		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Beryllium	0.51	0.31		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Chromium	7.8	0.62		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Copper	1.3	0.61		mg/Kg	2	12/11/2019 5:22:50 PM	49252
Iron	9200	260		mg/Kg	100	12/6/2019 11:52:04 AM	48975
Lead	0.80	0.52		mg/Kg	2	12/6/2019 11:50:33 AM	48975
Manganese	49	0.21		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Selenium	ND	5.2		mg/Kg	2	12/6/2019 11:50:33 AM	48975
Silver	ND	0.52		mg/Kg	2	12/3/2019 5:31:02 PM	48975
Titanium	140	26		mg/Kg	100	12/6/2019 11:52:04 AM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 11:50:33 AM	48975
Zinc	15	5.2		mg/Kg	2	12/3/2019 5:31:02 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/19/2019 11:55:23 AM	48831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2019 11:55:23 AM	48831
Surr: DNOP	118	70-130		%Rec	1	11/19/2019 11:55:23 AM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2019 11:03:24 AM	48822
Surr: BFB	100	77.4-118		%Rec	1	11/18/2019 11:03:24 AM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/18/2019 11:03:24 AM	48822
Toluene	ND	0.049		mg/Kg	1	11/18/2019 11:03:24 AM	48822
Ethylbenzene	ND	0.049		mg/Kg	1	11/18/2019 11:03:24 AM	48822
Xylenes, Total	ND	0.098		mg/Kg	1	11/18/2019 11:03:24 AM	48822
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/18/2019 11:03:24 AM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-002**Collection Date:** 11/13/2019 10:00:00 AM**Client Sample ID:** S-082148-111319-CN-C1-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Barium	76	0.20		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Beryllium	0.37	0.30		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Chromium	6.7	0.60		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Copper	2.1	0.60		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Iron	5800	250		mg/Kg	100	11/22/2019 6:59:53 PM	48837
Lead	2.1	0.50		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Manganese	64	0.20		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Selenium	ND	5.0		mg/Kg	2	12/6/2019 11:53:34 AM	48837
Silver	ND	0.50		mg/Kg	2	11/22/2019 6:53:28 PM	48837
Titanium	130	1.2		mg/Kg	5	12/6/2019 11:59:34 AM	48837
Uranium	ND	9.9		mg/Kg	2	11/25/2019 7:32:07 PM	48837
Zinc	13	5.0		mg/Kg	2	11/22/2019 6:53:28 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-003 **Collection Date:** 11/13/2019 2:00:00 PM

Client Sample ID: S-082148-111319-CN-C1-T1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 8:39:25 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Arsenic	ND	4.9		mg/Kg	2	12/6/2019 12:10:56 PM	48975
Barium	110	0.19		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Beryllium	0.34	0.29		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Cadmium	ND	0.19		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Chromium	5.3	0.58		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Copper	2.4	0.60		mg/Kg	2	12/11/2019 5:26:28 PM	49252
Iron	5700	240		mg/Kg	100	12/6/2019 12:13:57 PM	48975
Lead	ND	0.49		mg/Kg	2	12/6/2019 12:10:56 PM	48975
Manganese	54	0.19		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Selenium	ND	4.9		mg/Kg	2	12/6/2019 12:10:56 PM	48975
Silver	ND	0.49		mg/Kg	2	12/3/2019 5:43:32 PM	48975
Titanium	130	1.2		mg/Kg	5	12/6/2019 12:12:27 PM	48975
Uranium	ND	9.7		mg/Kg	2	12/6/2019 12:10:56 PM	48975
Zinc	11	4.9		mg/Kg	2	12/3/2019 5:43:32 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12	10		mg/Kg	1	11/19/2019 2:25:18 PM	48831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2019 2:25:18 PM	48831
Surr: DNOP	100	70-130		%Rec	1	11/19/2019 2:25:18 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/18/2019 11:26:55 AM	48822
Surr: BFB	96.4	77.4-118		%Rec	1	11/18/2019 11:26:55 AM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-004**Collection Date:** 11/13/2019 2:05:00 PM**Client Sample ID:** S-082148-111319-CN-C1-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Arsenic	ND	5.1		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Barium	110	0.20		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Beryllium	0.34	0.31		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Chromium	5.1	0.61		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Copper	3.2	0.61		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Iron	5600	260		mg/Kg	100	11/22/2019 7:03:16 PM	48837
Lead	1.5	0.51		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Manganese	61	0.20		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Selenium	ND	5.1		mg/Kg	2	11/26/2019 7:05:36 PM	48837
Silver	0.53	0.51		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Titanium	97	0.51		mg/Kg	2	11/22/2019 7:01:41 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 7:39:02 PM	48837
Zinc	11	5.1		mg/Kg	2	11/22/2019 7:01:41 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-005

Collection Date: 11/13/2019 10:22:00 AM

Client Sample ID: S-082148-111319-CN-C2-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Arsenic	ND	5.2		mg/Kg	2	12/6/2019 12:15:27 PM	48975
Barium	79	0.21		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Beryllium	0.37	0.31		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Chromium	6.3	0.63		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Copper	1.5	0.61		mg/Kg	2	12/11/2019 5:49:19 PM	49252
Iron	6400	260		mg/Kg	100	12/6/2019 12:18:28 PM	48975
Lead	0.97	0.52		mg/Kg	2	12/6/2019 12:15:27 PM	48975
Manganese	43	0.21		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Selenium	ND	5.2		mg/Kg	2	12/6/2019 12:15:27 PM	48975
Silver	ND	0.52		mg/Kg	2	12/3/2019 5:45:03 PM	48975
Titanium	140	1.3		mg/Kg	5	12/6/2019 12:16:57 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:15:27 PM	48975
Zinc	11	5.2		mg/Kg	2	12/3/2019 5:45:03 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/19/2019 2:34:33 PM	48831
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2019 2:34:33 PM	48831
Surr: DNOP	123	70-130		%Rec	1	11/19/2019 2:34:33 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 11:50:32 AM	48822
Surr: BFB	105	77.4-118		%Rec	1	11/18/2019 11:50:32 AM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2019 11:50:32 AM	48822
Toluene	ND	0.048		mg/Kg	1	11/18/2019 11:50:32 AM	48822
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2019 11:50:32 AM	48822
Xylenes, Total	ND	0.096		mg/Kg	1	11/18/2019 11:50:32 AM	48822
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	11/18/2019 11:50:32 AM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-006**Collection Date:** 11/13/2019 10:45:00 AM**Client Sample ID:** S-082148-111319-CN-C2-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 7:14:24 PM	48837
Barium	68	0.20		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Chromium	5.3	0.60		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Copper	1.0	0.60		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Iron	5400	250		mg/Kg	100	11/22/2019 7:12:56 PM	48837
Lead	1.3	0.50		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Manganese	43	0.20		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/26/2019 7:14:24 PM	48837
Silver	ND	0.50		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Titanium	99	0.50		mg/Kg	2	11/22/2019 7:11:20 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 7:40:46 PM	48837
Zinc	10	5.0		mg/Kg	2	11/25/2019 7:40:46 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-007

Collection Date: 11/13/2019 2:10:00 PM

Client Sample ID: S-082148-111319-CN-C2-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	61		mg/Kg	20	11/19/2019 8:51:49 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Arsenic	ND	5.2		mg/Kg	2	12/6/2019 12:19:58 PM	48975
Barium	110	0.21		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Beryllium	0.34	0.31		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Chromium	6.1	0.62		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Copper	2.3	0.60		mg/Kg	2	12/11/2019 5:51:07 PM	49252
Iron	6200	260		mg/Kg	100	12/6/2019 12:22:59 PM	48975
Lead	1.4	0.52		mg/Kg	2	12/6/2019 12:19:58 PM	48975
Manganese	54	0.21		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Selenium	ND	5.2		mg/Kg	2	12/6/2019 12:19:58 PM	48975
Silver	ND	0.52		mg/Kg	2	12/3/2019 5:46:34 PM	48975
Titanium	110	1.3		mg/Kg	5	12/6/2019 12:21:29 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:19:58 PM	48975
Zinc	11	5.2		mg/Kg	2	12/3/2019 5:46:34 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	11/20/2019 2:50:26 PM	48831
Motor Oil Range Organics (MRO)	75	49		mg/Kg	1	11/20/2019 2:50:26 PM	48831
Surr: DNOP	110	70-130		%Rec	1	11/20/2019 2:50:26 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2019 12:14:11 PM	48822
Surr: BFB	97.9	77.4-118		%Rec	1	11/18/2019 12:14:11 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-008**Collection Date:** 11/13/2019 2:15:00 PM**Client Sample ID:** S-082148-111319-CN-C2-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Barium	190	0.20		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Beryllium	0.46	0.30		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Chromium	7.9	0.60		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Copper	5.7	0.60		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Iron	14000	260		mg/Kg	100	12/6/2019 12:24:29 PM	49091
Lead	1.5	0.50		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Manganese	120	0.20		mg/Kg	2	12/18/2019 1:37:22 PM	48958
Selenium	ND	5.0		mg/Kg	2	11/26/2019 4:22:22 PM	48958
Silver	ND	0.50		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Titanium	88	0.50		mg/Kg	2	11/22/2019 7:14:43 PM	48958
Uranium	ND	10		mg/Kg	2	11/25/2019 7:42:30 PM	48958
Zinc	14	5.0		mg/Kg	2	11/25/2019 7:42:30 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-009

Collection Date: 11/13/2019 11:05:00 AM

Client Sample ID: S-082148-111319-CN-C3-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 12:31:22 PM	48975
Barium	22	0.20		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Beryllium	0.35	0.30		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Chromium	6.2	0.61		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Copper	ND	0.60		mg/Kg	2	12/11/2019 5:52:56 PM	49252
Iron	5700	250		mg/Kg	100	12/6/2019 12:34:22 PM	48975
Lead	0.96	0.51		mg/Kg	2	12/6/2019 12:31:22 PM	48975
Manganese	27	0.20		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 12:31:22 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Titanium	91	0.51		mg/Kg	2	12/3/2019 5:48:05 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:31:22 PM	48975
Zinc	10	5.1		mg/Kg	2	12/3/2019 5:48:05 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/19/2019 3:03:30 PM	48831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2019 3:03:30 PM	48831
Surr: DNOP	106	70-130		%Rec	1	11/19/2019 3:03:30 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/18/2019 12:37:55 PM	48822
Surr: BFB	98.7	77.4-118		%Rec	1	11/18/2019 12:37:55 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/18/2019 12:37:55 PM	48822
Toluene	ND	0.050		mg/Kg	1	11/18/2019 12:37:55 PM	48822
Ethylbenzene	ND	0.050		mg/Kg	1	11/18/2019 12:37:55 PM	48822
Xylenes, Total	ND	0.10		mg/Kg	1	11/18/2019 12:37:55 PM	48822
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/18/2019 12:37:55 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-010

Collection Date: 11/13/2019 11:16:00 AM

Client Sample ID: S-082148-111319-CN-C3-V2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Arsenic	5.3	4.9		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Barium	51	0.20		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Beryllium	0.60	0.30		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Chromium	10	0.59		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Copper	2.0	0.59		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Iron	11000	250		mg/Kg	100	11/22/2019 7:24:35 PM	48837
Lead	1.4	0.49		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Manganese	120	0.20		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Selenium	ND	4.9		mg/Kg	2	11/26/2019 7:15:58 PM	48837
Selenium	ND	12		mg/Kg	5	12/3/2019 5:49:36 PM	48837
Silver	ND	0.49		mg/Kg	2	11/22/2019 7:22:59 PM	48837
Titanium	150	1.2		mg/Kg	5	12/3/2019 5:49:36 PM	48837
Uranium	ND	9.8		mg/Kg	2	11/25/2019 7:56:48 PM	48837
Zinc	19	4.9		mg/Kg	2	11/25/2019 7:56:48 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-011 **Collection Date:** 11/13/2019 10:55:00 AM
Client Sample ID: S-082148-111319-CN-C3-T1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 9:04:13 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Arsenic	ND	5.2		mg/Kg	2	12/6/2019 12:35:53 PM	48975
Barium	67	0.21		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Beryllium	0.40	0.31		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Chromium	6.9	0.62		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Copper	1.6	0.60		mg/Kg	2	12/11/2019 5:54:44 PM	49252
Iron	7000	260		mg/Kg	100	12/6/2019 12:38:52 PM	48975
Lead	1.2	0.52		mg/Kg	2	12/6/2019 12:35:53 PM	48975
Manganese	54	0.21		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Selenium	ND	5.2		mg/Kg	2	12/6/2019 12:35:53 PM	48975
Silver	ND	0.52		mg/Kg	2	12/3/2019 5:51:06 PM	48975
Titanium	120	1.3		mg/Kg	5	12/6/2019 12:37:23 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:35:53 PM	48975
Zinc	14	5.2		mg/Kg	2	12/3/2019 5:51:06 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	270	90		mg/Kg	10	11/20/2019 3:12:34 PM	48831
Motor Oil Range Organics (MRO)	840	450		mg/Kg	10	11/20/2019 3:12:34 PM	48831
Surr: DNOP	0	70-130	S	%Rec	10	11/20/2019 3:12:34 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/18/2019 1:01:39 PM	48822
Surr: BFB	97.3	77.4-118		%Rec	1	11/18/2019 1:01:39 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-012**Collection Date:** 11/13/2019 11:00:00 AM**Client Sample ID:** S-082148-111319-CN-C3-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Barium	61	0.20		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Beryllium	0.31	0.30		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Chromium	5.7	0.60		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Copper	1.6	0.60		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Iron	5700	250		mg/Kg	100	11/22/2019 7:35:54 PM	48837
Lead	1.9	0.50		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Manganese	43	0.20		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Selenium	ND	5.0		mg/Kg	2	12/6/2019 12:40:22 PM	48837
Silver	ND	0.50		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Titanium	85	0.50		mg/Kg	2	11/22/2019 7:26:23 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 7:58:32 PM	48837
Zinc	12	5.0		mg/Kg	2	11/25/2019 7:58:32 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-013

Collection Date: 11/13/2019 11:30:00 AM

Client Sample ID: S-082148-111319-CN-C4-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Arsenic	ND	5.0		mg/Kg	2	12/6/2019 12:41:52 PM	48975
Barium	47	0.20		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Beryllium	0.37	0.30		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Chromium	7.6	0.59		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Copper	0.96	0.60		mg/Kg	2	12/11/2019 5:56:32 PM	49252
Iron	6800	250		mg/Kg	100	12/6/2019 12:44:52 PM	48975
Lead	0.86	0.50		mg/Kg	2	12/6/2019 12:41:52 PM	48975
Manganese	34	0.20		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Selenium	ND	5.0		mg/Kg	2	12/6/2019 12:41:52 PM	48975
Silver	ND	0.50		mg/Kg	2	12/3/2019 5:54:09 PM	48975
Titanium	140	1.2		mg/Kg	5	12/6/2019 12:43:22 PM	48975
Uranium	ND	9.9		mg/Kg	2	12/6/2019 12:41:52 PM	48975
Zinc	14	5.0		mg/Kg	2	12/3/2019 5:54:09 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/19/2019 3:22:08 PM	48831
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2019 3:22:08 PM	48831
Surr: DNOP	110	70-130		%Rec	1	11/19/2019 3:22:08 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/18/2019 2:36:15 PM	48822
Surr: BFB	97.1	77.4-118		%Rec	1	11/18/2019 2:36:15 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/18/2019 2:36:15 PM	48822
Toluene	ND	0.050		mg/Kg	1	11/18/2019 2:36:15 PM	48822
Ethylbenzene	ND	0.050		mg/Kg	1	11/18/2019 2:36:15 PM	48822
Xylenes, Total	ND	0.099		mg/Kg	1	11/18/2019 2:36:15 PM	48822
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	11/18/2019 2:36:15 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-014**Collection Date:** 11/13/2019 11:35:00 AM**Client Sample ID:** S-082148-111319-CN-C4-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Barium	64	0.20		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Beryllium	0.34	0.30		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Chromium	6.7	0.60		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Copper	1.6	0.60		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Iron	5600	250		mg/Kg	100	11/22/2019 7:39:19 PM	48837
Lead	2.1	0.50		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Manganese	45	0.20		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 7:37:43 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:00:14 PM	48837
Titanium	130	1.3		mg/Kg	5	11/25/2019 8:01:57 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 8:00:14 PM	48837
Zinc	12	5.0		mg/Kg	2	11/25/2019 8:00:14 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-015

Collection Date: 11/13/2019 11:25:00 AM

Client Sample ID: S-082148-111319-CN-C4-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 9:16:38 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 12:51:48 PM	48975
Barium	76	0.21		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Beryllium	0.37	0.31		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Chromium	6.1	0.62		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Copper	1.7	0.61		mg/Kg	2	12/11/2019 5:58:19 PM	49252
Iron	6300	260		mg/Kg	100	12/6/2019 12:54:52 PM	48975
Lead	1.7	0.51		mg/Kg	2	12/6/2019 12:51:48 PM	48975
Manganese	51	0.21		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 12:51:48 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:01:04 PM	48975
Titanium	130	1.3		mg/Kg	5	12/6/2019 12:53:21 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:51:48 PM	48975
Zinc	12	5.1		mg/Kg	2	12/3/2019 6:01:04 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	110	48		mg/Kg	5	11/20/2019 3:34:37 PM	48831
Motor Oil Range Organics (MRO)	330	240		mg/Kg	5	11/20/2019 3:34:37 PM	48831
Surr: DNOP	108	70-130		%Rec	5	11/20/2019 3:34:37 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/18/2019 2:59:41 PM	48822
Surr: BFB	96.7	77.4-118		%Rec	1	11/18/2019 2:59:41 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-016**Collection Date:** 11/13/2019 11:28:00 AM**Client Sample ID:** S-082148-111319-CN-C4-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Barium	84	0.20		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Beryllium	0.36	0.30		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Chromium	5.3	0.60		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Copper	1.7	0.60		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Iron	5800	250		mg/Kg	100	11/22/2019 7:42:42 PM	48837
Lead	2.5	0.50		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Manganese	54	0.20		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:03:41 PM	48837
Titanium	70	0.50		mg/Kg	2	11/22/2019 7:41:06 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 8:03:41 PM	48837
Zinc	12	5.0		mg/Kg	2	11/25/2019 8:03:41 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-017

Collection Date: 11/13/2019 11:50:00 AM

Client Sample ID: S-082148-111319-CN-C5-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Arsenic	ND	5.0		mg/Kg	2	12/6/2019 12:56:22 PM	48975
Barium	55	0.20		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Beryllium	0.58	0.30		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Chromium	9.8	0.60		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Copper	1.4	0.59		mg/Kg	2	12/11/2019 6:00:07 PM	49252
Iron	9700	250		mg/Kg	100	12/6/2019 12:59:24 PM	48975
Lead	1.2	0.50		mg/Kg	2	12/6/2019 12:56:22 PM	48975
Manganese	50	0.20		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Selenium	ND	5.0		mg/Kg	2	12/6/2019 12:56:22 PM	48975
Silver	ND	0.50		mg/Kg	2	12/3/2019 6:02:37 PM	48975
Titanium	150	1.2		mg/Kg	5	12/6/2019 12:57:54 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 12:56:22 PM	48975
Zinc	19	5.0		mg/Kg	2	12/3/2019 6:02:37 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/19/2019 3:40:50 PM	48831
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2019 3:40:50 PM	48831
Surr: DNOP	103	70-130		%Rec	1	11/19/2019 3:40:50 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2019 3:23:01 PM	48822
Surr: BFB	99.0	77.4-118		%Rec	1	11/18/2019 3:23:01 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2019 3:23:01 PM	48822
Toluene	ND	0.049		mg/Kg	1	11/18/2019 3:23:01 PM	48822
Ethylbenzene	ND	0.049		mg/Kg	1	11/18/2019 3:23:01 PM	48822
Xylenes, Total	ND	0.098		mg/Kg	1	11/18/2019 3:23:01 PM	48822
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/18/2019 3:23:01 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-018**Collection Date:** 11/13/2019 12:00:00 PM**Client Sample ID:** S-082148-111319-CN-C5-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Barium	61	0.20		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Beryllium	0.41	0.30		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Chromium	6.9	0.60		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Copper	1.0	0.60		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Iron	7400	250		mg/Kg	100	11/22/2019 7:46:06 PM	48837
Lead	2.0	0.50		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Manganese	34	0.20		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:05:23 PM	48837
Titanium	73	0.50		mg/Kg	2	11/22/2019 7:44:30 PM	48837
Uranium	ND	10		mg/Kg	2	11/25/2019 8:05:23 PM	48837
Zinc	13	5.0		mg/Kg	2	11/25/2019 8:05:23 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-019

Collection Date: 11/13/2019 11:45:00 AM

Client Sample ID: S-082148-111319-CN-C5-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 9:29:02 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Arsenic	ND	5.2		mg/Kg	2	12/6/2019 1:00:54 PM	48975
Barium	800	0.52		mg/Kg	5	12/6/2019 1:02:25 PM	48975
Beryllium	ND	0.31		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Chromium	8.5	0.62		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Copper	5.9	0.60		mg/Kg	2	12/11/2019 6:07:29 PM	49252
Iron	5800	260		mg/Kg	100	12/6/2019 1:03:55 PM	48975
Lead	6.9	0.52		mg/Kg	2	12/6/2019 1:00:54 PM	48975
Manganese	80	0.21		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Selenium	ND	5.2		mg/Kg	2	12/6/2019 1:00:54 PM	48975
Silver	ND	0.52		mg/Kg	2	12/3/2019 6:04:07 PM	48975
Titanium	92	0.52		mg/Kg	2	12/6/2019 1:00:54 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 1:00:54 PM	48975
Zinc	22	5.2		mg/Kg	2	12/3/2019 6:04:07 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/20/2019 3:56:44 PM	48831
Motor Oil Range Organics (MRO)	90	50		mg/Kg	1	11/20/2019 3:56:44 PM	48831
Surr: DNOP	109	70-130		%Rec	1	11/20/2019 3:56:44 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 3:46:16 PM	48822
Surr: BFB	98.5	77.4-118		%Rec	1	11/18/2019 3:46:16 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-020**Collection Date:** 11/13/2019 11:47:00 AM**Client Sample ID:** S-082148-111319-CN-C5-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Arsenic	ND	4.9		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Barium	81	0.20		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Beryllium	ND	0.29		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Chromium	6.5	0.59		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Copper	3.5	0.59		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Iron	5300	240		mg/Kg	100	11/22/2019 7:49:30 PM	48837
Lead	2.4	0.49		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Manganese	60	0.20		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Selenium	ND	4.9		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Silver	ND	0.49		mg/Kg	2	11/25/2019 8:07:06 PM	48837
Titanium	72	0.49		mg/Kg	2	11/22/2019 7:47:54 PM	48837
Uranium	ND	9.8		mg/Kg	2	11/25/2019 8:07:06 PM	48837
Zinc	16	4.9		mg/Kg	2	11/25/2019 8:07:06 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-021**Collection Date:** 11/13/2019 12:10:00 PM**Client Sample ID:** S-082148-111319-CN-C6-V1**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Arsenic	5.5	5.1		mg/Kg	2	12/6/2019 1:05:26 PM	48975
Barium	55	0.20		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Beryllium	0.44	0.30		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Chromium	8.0	0.61		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Copper	1.0	0.62		mg/Kg	2	12/11/2019 6:09:19 PM	49252
Iron	8600	250		mg/Kg	100	12/6/2019 1:15:35 PM	48975
Lead	0.88	0.51		mg/Kg	2	12/6/2019 1:05:26 PM	48975
Manganese	42	0.20		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 1:05:26 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:05:39 PM	48975
Titanium	130	1.3		mg/Kg	5	12/6/2019 1:14:04 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 1:05:26 PM	48975
Zinc	15	5.1		mg/Kg	2	12/3/2019 6:05:39 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/19/2019 3:59:33 PM	48831
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/19/2019 3:59:33 PM	48831
Surr: DNOP	119	70-130		%Rec	1	11/19/2019 3:59:33 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2019 4:09:36 PM	48822
Surr: BFB	101	77.4-118		%Rec	1	11/18/2019 4:09:36 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2019 4:09:36 PM	48822
Toluene	ND	0.049		mg/Kg	1	11/18/2019 4:09:36 PM	48822
Ethylbenzene	ND	0.049		mg/Kg	1	11/18/2019 4:09:36 PM	48822
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2019 4:09:36 PM	48822
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/18/2019 4:09:36 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-022**Collection Date:** 11/13/2019 12:20:00 PM**Client Sample ID:** S-082148-111319-CN-C6-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Barium	51	0.20		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Beryllium	0.50	0.30		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Chromium	8.4	0.60		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Copper	0.77	0.60		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Iron	9100	250		mg/Kg	100	11/22/2019 8:00:50 PM	48837
Lead	0.97	0.50		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Manganese	45	0.20		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 7:51:18 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:08:49 PM	48837
Titanium	120	1.2		mg/Kg	5	11/25/2019 8:10:32 PM	48837
Uranium	ND	9.9		mg/Kg	2	11/25/2019 8:08:49 PM	48837
Zinc	17	5.0		mg/Kg	2	11/25/2019 8:08:49 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-023

Collection Date: 11/13/2019 12:05:00 PM

Client Sample ID: S-082148-111319-CN-C6-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	59		mg/Kg	20	11/19/2019 9:41:27 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Arsenic	ND	5.0		mg/Kg	2	12/6/2019 1:17:05 PM	48975
Barium	92	0.20		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Beryllium	0.31	0.30		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Chromium	5.6	0.60		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Copper	2.5	0.60		mg/Kg	2	12/11/2019 6:11:07 PM	49252
Iron	5700	250		mg/Kg	100	12/6/2019 1:20:05 PM	48975
Lead	1.3	0.50		mg/Kg	2	12/6/2019 1:17:05 PM	48975
Manganese	60	0.20		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Selenium	ND	5.0		mg/Kg	2	12/6/2019 1:17:05 PM	48975
Silver	ND	0.50		mg/Kg	2	12/3/2019 6:07:10 PM	48975
Titanium	120	1.2		mg/Kg	5	12/6/2019 1:18:35 PM	48975
Uranium	ND	9.9		mg/Kg	2	12/6/2019 1:17:05 PM	48975
Zinc	12	5.0		mg/Kg	2	12/3/2019 6:07:10 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2019 4:40:43 PM	48831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2019 4:40:43 PM	48831
Surr: DNOP	110	70-130		%Rec	1	11/20/2019 4:40:43 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/18/2019 4:33:00 PM	48822
Surr: BFB	97.6	77.4-118		%Rec	1	11/18/2019 4:33:00 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-024**Collection Date:** 11/13/2019 12:07:00 PM**Client Sample ID:** S-082148-111319-CN-C6-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 7:19:08 PM	48837
Barium	89	0.20		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Chromium	5.0	0.60		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Copper	2.1	0.60		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Iron	5000	250		mg/Kg	100	11/22/2019 8:04:15 PM	48837
Lead	1.7	0.50		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Manganese	53	0.20		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:12:14 PM	48837
Titanium	110	1.2		mg/Kg	5	11/25/2019 8:22:51 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:02:39 PM	48837
Zinc	11	5.0		mg/Kg	2	11/25/2019 8:12:14 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-025

Collection Date: 11/13/2019 12:40:00 PM

Client Sample ID: S-082148-111319-CN-C7-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 1:21:34 PM	48975
Barium	300	0.21		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Beryllium	0.36	0.31		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Chromium	6.2	0.62		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Copper	3.4	0.62		mg/Kg	2	12/11/2019 6:12:55 PM	48975
Iron	6400	260		mg/Kg	100	12/6/2019 1:24:34 PM	48975
Lead	0.77	0.51		mg/Kg	2	12/6/2019 1:21:34 PM	48975
Manganese	80	0.21		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 1:21:34 PM	48975
Silver	0.66	0.51		mg/Kg	2	12/3/2019 6:08:41 PM	48975
Titanium	150	1.3		mg/Kg	5	12/6/2019 1:23:04 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 1:21:34 PM	48975
Zinc	12	5.1		mg/Kg	2	12/3/2019 6:08:41 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	11/19/2019 4:18:19 PM	48831
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/19/2019 4:18:19 PM	48831
Surr: DNOP	85.9	70-130		%Rec	1	11/19/2019 4:18:19 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 4:56:16 PM	48822
Surr: BFB	101	77.4-118		%Rec	1	11/18/2019 4:56:16 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2019 4:56:16 PM	48822
Toluene	ND	0.048		mg/Kg	1	11/18/2019 4:56:16 PM	48822
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2019 4:56:16 PM	48822
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2019 4:56:16 PM	48822
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/18/2019 4:56:16 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-026**Collection Date:** 11/13/2019 12:55:00 PM**Client Sample ID:** S-082148-111319-CN-C7-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 7:22:19 PM	48837
Barium	27	0.20		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Beryllium	0.45	0.30		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Chromium	7.9	0.60		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Copper	0.89	0.60		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Iron	8300	250		mg/Kg	100	11/22/2019 8:07:38 PM	48837
Lead	0.98	0.50		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Manganese	44	0.20		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:24:35 PM	48837
Titanium	110	1.2		mg/Kg	5	11/25/2019 8:26:17 PM	48837
Uranium	ND	9.9		mg/Kg	2	11/22/2019 8:06:02 PM	48837
Zinc	16	5.0		mg/Kg	2	11/26/2019 7:22:19 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-027

Collection Date: 11/13/2019 12:35:00 PM

Client Sample ID: S-082148-111319-CN-C7-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 10:43:28 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 1:26:04 PM	48975
Barium	100	0.20		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Beryllium	0.31	0.30		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Chromium	5.3	0.61		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Copper	2.5	0.61		mg/Kg	2	12/11/2019 6:14:46 PM	48975
Iron	5300	250		mg/Kg	100	12/6/2019 1:34:32 PM	48975
Lead	0.93	0.51		mg/Kg	2	12/6/2019 1:26:04 PM	48975
Manganese	58	0.20		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 1:26:04 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:10:13 PM	48975
Titanium	120	1.3		mg/Kg	5	12/6/2019 1:27:36 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 1:26:04 PM	48975
Zinc	10	5.1		mg/Kg	2	12/3/2019 6:10:13 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/20/2019 5:02:45 PM	48831
Motor Oil Range Organics (MRO)	66	50		mg/Kg	1	11/20/2019 5:02:45 PM	48831
Surr: DNOP	122	70-130		%Rec	1	11/20/2019 5:02:45 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/18/2019 5:19:30 PM	48822
Surr: BFB	96.4	77.4-118		%Rec	1	11/18/2019 5:19:30 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-028**Collection Date:** 11/13/2019 12:37:00 PM**Client Sample ID:** S-082148-111319-CN-C7-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Arsenic	ND	4.9		mg/Kg	2	11/26/2019 7:25:27 PM	48837
Barium	100	0.19		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Beryllium	ND	0.29		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Cadmium	ND	0.19		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Chromium	4.5	0.58		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Copper	2.3	0.58		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Iron	4900	240		mg/Kg	100	11/26/2019 7:27:02 PM	48837
Lead	0.82	0.49		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Manganese	48	0.19		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Selenium	ND	4.9		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Silver	0.52	0.49		mg/Kg	2	11/25/2019 8:27:59 PM	48837
Titanium	95	0.49		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Uranium	ND	9.7		mg/Kg	2	11/22/2019 8:09:26 PM	48837
Zinc	10	4.9		mg/Kg	2	11/26/2019 7:25:27 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-029

Collection Date: 11/13/2019 1:45:00 PM

Client Sample ID: S-082148-111319-CN-C8-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 1:36:04 PM	48975
Barium	220	0.21		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Beryllium	ND	0.31		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Chromium	6.4	0.62		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Copper	1.5	0.62		mg/Kg	2	12/11/2019 6:16:35 PM	49252
Iron	4900	260		mg/Kg	100	12/6/2019 1:39:06 PM	48975
Lead	1.2	0.51		mg/Kg	2	12/6/2019 1:36:04 PM	48975
Manganese	51	0.21		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 1:36:04 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:11:44 PM	48975
Titanium	120	1.3		mg/Kg	5	12/6/2019 1:37:36 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 2:27:42 PM	48975
Zinc	9.6	5.1		mg/Kg	2	12/3/2019 6:11:44 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/19/2019 4:37:02 PM	48831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2019 4:37:02 PM	48831
Surr: DNOP	102	70-130		%Rec	1	11/19/2019 4:37:02 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 5:42:42 PM	48822
Surr: BFB	103	77.4-118		%Rec	1	11/18/2019 5:42:42 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2019 5:42:42 PM	48822
Toluene	ND	0.048		mg/Kg	1	11/18/2019 5:42:42 PM	48822
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2019 5:42:42 PM	48822
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2019 5:42:42 PM	48822
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	11/18/2019 5:42:42 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-030**Collection Date:** 11/13/2019 2:20:00 PM**Client Sample ID:** S-082148-111319-CN-C8-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 7:28:36 PM	48837
Barium	86	0.20		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Chromium	5.1	0.59		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Copper	ND	0.59		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Iron	5400	250		mg/Kg	100	11/22/2019 8:14:25 PM	48837
Lead	1.3	0.50		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Manganese	31	0.20		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:29:42 PM	48837
Titanium	110	1.2		mg/Kg	5	11/25/2019 8:31:26 PM	48837
Uranium	ND	9.9		mg/Kg	2	11/22/2019 8:12:49 PM	48837
Zinc	9.7	5.0		mg/Kg	2	11/26/2019 7:28:36 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-031

Collection Date: 11/13/2019 1:10:00 PM

Client Sample ID: S-082148-111319-CN-C8-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 10:55:52 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 1:40:37 PM	48975
Barium	74	0.20		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Beryllium	0.31	0.31		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Chromium	5.7	0.61		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Copper	2.2	0.62		mg/Kg	2	12/11/2019 6:18:23 PM	49252
Iron	6000	260		mg/Kg	100	12/6/2019 1:43:37 PM	48975
Lead	2.5	0.51		mg/Kg	2	12/6/2019 1:40:37 PM	48975
Manganese	59	0.20		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 1:40:37 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:13:15 PM	48975
Titanium	110	1.3		mg/Kg	5	12/6/2019 1:42:07 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 2:29:12 PM	48975
Zinc	11	5.1		mg/Kg	2	12/3/2019 6:13:15 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/19/2019 4:46:26 PM	48831
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2019 4:46:26 PM	48831
Surr: DNOP	95.9	70-130		%Rec	1	11/19/2019 4:46:26 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 6:05:57 PM	48822
Surr: BFB	101	77.4-118		%Rec	1	11/18/2019 6:05:57 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-032**Collection Date:** 11/13/2019 1:12:00 PM**Client Sample ID:** S-082148-111319-CN-C8-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Arsenic	ND	5.0		mg/Kg	2	12/3/2019 6:14:46 PM	48837
Barium	110	0.20		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Chromium	7.4	0.60		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Copper	2.5	0.60		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Iron	4600	250		mg/Kg	100	11/22/2019 8:25:46 PM	48837
Lead	2.4	0.50		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Manganese	50	0.20		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:33:08 PM	48837
Titanium	96	0.50		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:16:13 PM	48837
Zinc	16	5.0		mg/Kg	2	11/26/2019 7:38:47 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-033 **Collection Date:** 11/13/2019 2:40:00 PM

Client Sample ID: S-082148-111319-CN-C9-V1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Arsenic	ND	5.0		mg/Kg	2	12/6/2019 1:45:08 PM	48975
Barium	72	0.20		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Beryllium	0.31	0.30		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Chromium	6.6	0.60		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Copper	ND	0.59		mg/Kg	2	12/11/2019 6:20:13 PM	49252
Iron	6200	250		mg/Kg	100	12/6/2019 1:48:04 PM	48975
Lead	1.3	0.50		mg/Kg	2	12/6/2019 1:45:08 PM	48975
Manganese	31	0.20		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Selenium	ND	5.0		mg/Kg	2	12/6/2019 1:45:08 PM	48975
Silver	ND	0.50		mg/Kg	2	12/3/2019 6:21:42 PM	48975
Titanium	120	1.2		mg/Kg	5	12/6/2019 1:46:38 PM	48975
Uranium	ND	10		mg/Kg	2	12/6/2019 2:30:43 PM	48975
Zinc	11	5.0		mg/Kg	2	12/3/2019 6:21:42 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/19/2019 4:55:50 PM	48831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2019 4:55:50 PM	48831
Surr: DNOP	86.4	70-130		%Rec	1	11/19/2019 4:55:50 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/18/2019 7:15:53 PM	48822
Surr: BFB	100	77.4-118		%Rec	1	11/18/2019 7:15:53 PM	48822
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/18/2019 7:15:53 PM	48822
Toluene	ND	0.047		mg/Kg	1	11/18/2019 7:15:53 PM	48822
Ethylbenzene	ND	0.047		mg/Kg	1	11/18/2019 7:15:53 PM	48822
Xylenes, Total	ND	0.094		mg/Kg	1	11/18/2019 7:15:53 PM	48822
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/18/2019 7:15:53 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-034**Collection Date:** 11/13/2019 2:42:00 PM**Client Sample ID:** S-082148-111319-CN-C9-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Arsenic	ND	5.2		mg/Kg	2	12/3/2019 6:23:15 PM	48837
Barium	61	0.21		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Beryllium	ND	0.31		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Cadmium	ND	0.21		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Chromium	4.6	0.62		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Copper	0.64	0.62		mg/Kg	2	11/25/2019 8:34:52 PM	48837
Iron	4200	260		mg/Kg	100	11/22/2019 8:29:25 PM	48837
Lead	2.0	0.52		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Manganese	28	0.21		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Selenium	ND	5.2		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Silver	ND	0.52		mg/Kg	2	11/25/2019 8:34:52 PM	48837
Titanium	96	0.52		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:27:51 PM	48837
Zinc	8.2	5.2		mg/Kg	2	11/26/2019 7:40:24 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-035

Collection Date: 11/13/2019 2:33:00 PM

Client Sample ID: S-082148-111319-CN-C9-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 11:08:17 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Arsenic	ND	4.9		mg/Kg	2	12/6/2019 1:56:33 PM	48975
Barium	82	0.20		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Beryllium	ND	0.29		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Chromium	5.7	0.59		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Copper	2.3	0.59		mg/Kg	2	12/11/2019 6:21:59 PM	49252
Iron	6000	240		mg/Kg	100	12/6/2019 1:59:35 PM	48975
Lead	1.7	0.49		mg/Kg	2	12/6/2019 1:56:33 PM	48975
Manganese	58	0.20		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Selenium	ND	4.9		mg/Kg	2	12/6/2019 1:56:33 PM	48975
Silver	ND	0.49		mg/Kg	2	12/3/2019 6:24:45 PM	48975
Titanium	120	1.2		mg/Kg	5	12/6/2019 1:58:05 PM	48975
Uranium	ND	9.8		mg/Kg	2	12/6/2019 2:39:24 PM	48975
Zinc	13	4.9		mg/Kg	2	12/3/2019 6:24:45 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/20/2019 5:24:53 PM	48831
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/20/2019 5:24:53 PM	48831
Surr: DNOP	133	70-130	S	%Rec	1	11/20/2019 5:24:53 PM	48831
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2019 7:39:16 PM	48822
Surr: BFB	97.6	77.4-118		%Rec	1	11/18/2019 7:39:16 PM	48822

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-036**Collection Date:** 11/13/2019 2:35:00 PM**Client Sample ID:** S-082148-111319-CN-C9-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Arsenic	ND	5.0		mg/Kg	2	12/3/2019 6:26:16 PM	48837
Barium	75	0.20		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Chromium	4.9	0.60		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Copper	4.1	0.60		mg/Kg	2	11/25/2019 8:36:34 PM	48837
Iron	5100	250		mg/Kg	100	11/22/2019 8:33:03 PM	48837
Lead	1.7	0.50		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Manganese	51	0.20		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:36:34 PM	48837
Titanium	110	1.2		mg/Kg	5	12/11/2019 4:41:20 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:31:27 PM	48837
Zinc	11	5.0		mg/Kg	2	11/26/2019 7:41:58 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-037

Collection Date: 11/13/2019 3:00:00 PM

Client Sample ID: S-082148-111319-CN-C10-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.9		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Arsenic	ND	4.9		mg/Kg	2	12/3/2019 6:27:47 PM	48958
Barium	92	0.20		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Beryllium	0.40	0.30		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Chromium	5.9	0.59		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Copper	3.1	0.59		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Iron	5700	260		mg/Kg	100	12/6/2019 2:42:25 PM	49091
Lead	0.89	0.49		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Manganese	70	0.20		mg/Kg	2	12/6/2019 2:40:54 PM	49091
Selenium	ND	4.9		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Silver	ND	0.49		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Titanium	140	1.2		mg/Kg	5	12/3/2019 6:29:18 PM	48958
Uranium	ND	9.9		mg/Kg	2	11/26/2019 4:28:56 PM	48958
Zinc	12	4.9		mg/Kg	2	11/26/2019 4:28:56 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2019 7:52:56 AM	48883
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	11/20/2019 7:52:56 AM	48883
Surr: DNOP	99.2	70-130		%Rec	1	11/20/2019 7:52:56 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 1:14:51 PM	48877
Surr: BFB	104	77.4-118		%Rec	1	11/21/2019 1:14:51 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/21/2019 1:14:51 PM	48877
Toluene	ND	0.049		mg/Kg	1	11/21/2019 1:14:51 PM	48877
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2019 1:14:51 PM	48877
Xylenes, Total	ND	0.097		mg/Kg	1	11/21/2019 1:14:51 PM	48877
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	11/21/2019 1:14:51 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-038**Collection Date:** 11/13/2019 3:20:00 PM**Client Sample ID:** S-082148-111319-CN-C10-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Arsenic	ND	5.1		mg/Kg	2	12/3/2019 6:30:49 PM	48837
Barium	90	0.21		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Beryllium	0.42	0.31		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Cadmium	ND	0.21		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Chromium	7.0	0.62		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Copper	1.2	0.62		mg/Kg	2	11/25/2019 8:38:16 PM	48837
Iron	8000	260		mg/Kg	100	11/22/2019 8:36:25 PM	48837
Lead	ND	0.51		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Manganese	42	0.21		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Selenium	ND	5.1		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Silver	ND	0.51		mg/Kg	2	11/25/2019 8:38:16 PM	48837
Titanium	130	1.3		mg/Kg	5	12/3/2019 6:32:21 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:34:50 PM	48837
Zinc	15	5.1		mg/Kg	2	11/26/2019 7:43:34 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-039 **Collection Date:** 11/13/2019 3:05:00 PM

Client Sample ID: S-082148-111319-CN-C10-T1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 11:20:42 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:39:28 PM	48958
Barium	53	0.20		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Beryllium	0.30	0.30		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Chromium	5.0	0.61		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Copper	2.1	0.61		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Iron	4600	260		mg/Kg	100	12/6/2019 2:45:25 PM	49091
Lead	0.81	0.51		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Manganese	40	0.21		mg/Kg	2	12/6/2019 2:43:55 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Titanium	90	0.51		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 4:32:04 PM	48958
Zinc	9.1	5.1		mg/Kg	2	11/26/2019 4:32:04 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2019 8:20:12 AM	48883
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2019 8:20:12 AM	48883
Surr: DNOP	106	70-130		%Rec	1	11/20/2019 8:20:12 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/21/2019 1:37:45 PM	48877
Surr: BFB	99.2	77.4-118		%Rec	1	11/21/2019 1:37:45 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-040**Collection Date:** 11/13/2019 3:10:00 PM**Client Sample ID:** S-082148-111319-CN-C10-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Arsenic	ND	5.0		mg/Kg	2	12/3/2019 6:33:52 PM	48837
Barium	70	0.20		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Beryllium	ND	0.30		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Cadmium	ND	0.20		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Chromium	5.5	0.60		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Copper	2.7	0.60		mg/Kg	2	11/25/2019 8:47:30 PM	48837
Iron	5900	250		mg/Kg	100	11/22/2019 8:39:47 PM	48837
Lead	1.4	0.50		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Manganese	50	0.20		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Selenium	ND	5.0		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Silver	ND	0.50		mg/Kg	2	11/25/2019 8:47:30 PM	48837
Titanium	110	1.3		mg/Kg	5	11/25/2019 8:49:15 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:38:12 PM	48837
Zinc	12	5.0		mg/Kg	2	11/26/2019 7:45:10 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-041 **Collection Date:** 11/14/2019 9:15:00 AM
Client Sample ID: S-082148-111419-CN-C11-V1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:41:03 PM	48958
Barium	130	0.20		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Beryllium	0.72	0.31		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Chromium	12	0.61		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Copper	2.5	0.61		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Iron	12000	260		mg/Kg	100	12/6/2019 2:48:25 PM	49091
Lead	ND	0.51		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Manganese	66	0.21		mg/Kg	2	12/6/2019 2:46:55 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Titanium	150	1.3		mg/Kg	5	12/10/2019 4:26:29 PM	49091
Uranium	ND	10		mg/Kg	2	11/26/2019 4:35:14 PM	48958
Zinc	27	5.1		mg/Kg	2	11/26/2019 4:35:14 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2019 8:29:19 AM	48883
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2019 8:29:19 AM	48883
Surr: DNOP	87.2	70-130		%Rec	1	11/20/2019 8:29:19 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 2:00:45 PM	48877
Surr: BFB	103	77.4-118		%Rec	1	11/21/2019 2:00:45 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/21/2019 2:00:45 PM	48877
Toluene	ND	0.049		mg/Kg	1	11/21/2019 2:00:45 PM	48877
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2019 2:00:45 PM	48877
Xylenes, Total	ND	0.098		mg/Kg	1	11/21/2019 2:00:45 PM	48877
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	11/21/2019 2:00:45 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-042**Collection Date:** 11/14/2019 9:23:00 AM**Client Sample ID:** S-082148-111419-CN-C11-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Arsenic	ND	5.1		mg/Kg	2	12/18/2019 3:11:28 PM	48837
Barium	56	0.21		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Beryllium	0.39	0.31		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Cadmium	ND	0.21		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Chromium	6.8	0.62		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Copper	1.4	0.62		mg/Kg	2	11/25/2019 8:50:58 PM	48837
Iron	8000	260		mg/Kg	100	11/22/2019 8:52:43 PM	48837
Lead	1.5	0.51		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Manganese	37	0.21		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Selenium	ND	5.1		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Silver	ND	0.51		mg/Kg	2	11/25/2019 8:50:58 PM	48837
Titanium	140	1.3		mg/Kg	5	11/25/2019 8:52:40 PM	48837
Uranium	ND	10		mg/Kg	2	11/22/2019 8:41:34 PM	48837
Zinc	14	5.1		mg/Kg	2	11/26/2019 7:48:18 PM	48837

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-043

Collection Date: 11/14/2019 9:10:00 AM

Client Sample ID: S-082148-111419-CN-C11-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/19/2019 11:33:06 PM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:42:39 PM	48958
Barium	83	0.20		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Beryllium	0.30	0.30		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Chromium	4.8	0.61		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Copper	3.1	0.61		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Iron	5400	250		mg/Kg	100	12/6/2019 2:51:25 PM	49091
Lead	1.6	0.51		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Manganese	58	0.20		mg/Kg	2	12/6/2019 2:49:55 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Titanium	95	0.51		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 4:44:33 PM	48958
Zinc	10	5.1		mg/Kg	2	11/26/2019 4:44:33 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/20/2019 8:38:27 AM	48883
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2019 8:38:27 AM	48883
Surr: DNOP	102	70-130		%Rec	1	11/20/2019 8:38:27 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/21/2019 2:23:31 PM	48877
Surr: BFB	100	77.4-118		%Rec	1	11/21/2019 2:23:31 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-044

Collection Date: 11/14/2019 9:12:00 AM

Client Sample ID: S-082148-111419-CN-C11-T2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:49:49 PM	48958
Barium	170	0.21		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Beryllium	0.31	0.31		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Chromium	5.2	0.62		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Copper	4.0	0.62		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Iron	9100	250		mg/Kg	100	12/6/2019 2:59:55 PM	49091
Lead	1.2	0.51		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Manganese	89	0.20		mg/Kg	2	12/6/2019 2:58:22 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Titanium	96	0.51		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 4:47:44 PM	48958
Zinc	11	5.1		mg/Kg	2	11/26/2019 4:47:44 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-045 **Collection Date:** 11/14/2019 9:35:00 AM
Client Sample ID: S-082148-111419-CN-C12-V1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.8		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Arsenic	ND	4.8		mg/Kg	2	11/26/2019 5:51:26 PM	48958
Barium	39	0.19		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Beryllium	0.58	0.29		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Cadmium	ND	0.19		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Chromium	9.3	0.58		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Copper	1.6	0.58		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Iron	11000	250		mg/Kg	100	12/6/2019 3:02:55 PM	49091
Lead	0.77	0.48		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Manganese	70	0.20		mg/Kg	2	12/6/2019 3:01:25 PM	49091
Selenium	ND	4.8		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Silver	ND	0.48		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Titanium	55	0.48		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Uranium	ND	9.7		mg/Kg	2	11/26/2019 4:50:55 PM	48958
Zinc	20	4.8		mg/Kg	2	11/26/2019 4:50:55 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2019 8:47:36 AM	48883
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2019 8:47:36 AM	48883
Surr: DNOP	90.8	70-130		%Rec	1	11/20/2019 8:47:36 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 2:46:24 PM	48877
Surr: BFB	100	77.4-118		%Rec	1	11/21/2019 2:46:24 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/21/2019 2:46:24 PM	48877
Toluene	ND	0.049		mg/Kg	1	11/21/2019 2:46:24 PM	48877
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2019 2:46:24 PM	48877
Xylenes, Total	ND	0.098		mg/Kg	1	11/21/2019 2:46:24 PM	48877
Surr: 4-Bromofluorobenzene	89.9	80-120		%Rec	1	11/21/2019 2:46:24 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-046

Collection Date: 11/14/2019 9:42:00 AM

Client Sample ID: S-082148-111419-CN-C12-V2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 5:53:01 PM	48958
Barium	32	0.20		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Beryllium	0.60	0.30		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Chromium	9.3	0.60		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Copper	1.5	0.60		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Iron	9800	260		mg/Kg	100	12/6/2019 3:05:55 PM	49091
Lead	0.81	0.50		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Manganese	42	0.20		mg/Kg	2	12/6/2019 3:04:25 PM	49091
Selenium	ND	5.0		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Silver	ND	0.50		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Titanium	80	0.50		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 4:54:06 PM	48958
Zinc	19	5.0		mg/Kg	2	11/26/2019 4:54:06 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-047

Collection Date: 11/14/2019 9:37:00 AM

Client Sample ID: S-082148-111419-CN-C12-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/20/2019 12:10:19 AM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 5:54:37 PM	48958
Barium	55	0.20		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Beryllium	0.40	0.30		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Chromium	11	0.60		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Copper	130	0.60		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Iron	9300	250		mg/Kg	100	12/6/2019 3:08:55 PM	49091
Lead	1.9	0.50		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Manganese	87	0.20		mg/Kg	2	12/6/2019 3:07:25 PM	49091
Selenium	ND	5.0		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Silver	ND	0.50		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Titanium	84	0.50		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 4:57:15 PM	48958
Zinc	15	5.0		mg/Kg	2	11/26/2019 4:57:15 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2019 8:56:45 AM	48883
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2019 8:56:45 AM	48883
Surr: DNOP	86.8	70-130		%Rec	1	11/20/2019 8:56:45 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 5:03:53 PM	48877
Surr: BFB	98.8	77.4-118		%Rec	1	11/21/2019 5:03:53 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-048**Collection Date:** 11/14/2019 9:40:00 AM**Client Sample ID:** S-082148-111419-CN-C12-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	11/26/2019 5:56:13 PM	48958
Arsenic	ND	5.2		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Barium	86	0.21		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Beryllium	0.41	0.31		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Chromium	8.3	0.62		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Copper	47	0.62		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Iron	8100	260		mg/Kg	100	12/6/2019 3:11:56 PM	49091
Lead	2.6	0.52		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Manganese	68	0.21		mg/Kg	2	12/6/2019 3:10:25 PM	49091
Selenium	ND	5.2		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Silver	ND	0.52		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Titanium	90	0.52		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 5:07:23 PM	48958
Zinc	16	5.2		mg/Kg	2	11/26/2019 5:07:23 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-049

Collection Date: 11/14/2019 9:52:00 AM

Client Sample ID: S-082148-111419-CN-C13-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	4.8		mg/Kg	2	11/26/2019 5:57:49 PM	48958
Arsenic	ND	4.8		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Barium	73	0.19		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Beryllium	0.38	0.29		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Cadmium	ND	0.19		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Chromium	5.4	0.57		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Copper	2.4	0.57		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Iron	6200	260		mg/Kg	100	12/6/2019 3:20:28 PM	49091
Lead	1.0	0.48		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Manganese	51	0.21		mg/Kg	2	12/6/2019 3:18:54 PM	49091
Selenium	ND	4.8		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Silver	ND	0.48		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Titanium	81	0.48		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Uranium	ND	9.5		mg/Kg	2	11/26/2019 5:10:34 PM	48958
Zinc	11	4.8		mg/Kg	2	11/26/2019 5:10:34 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/20/2019 9:05:54 AM	48883
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2019 9:05:54 AM	48883
Surr: DNOP	92.7	70-130		%Rec	1	11/20/2019 9:05:54 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2019 5:26:47 PM	48877
Surr: BFB	100	77.4-118		%Rec	1	11/21/2019 5:26:47 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/21/2019 5:26:47 PM	48877
Toluene	ND	0.047		mg/Kg	1	11/21/2019 5:26:47 PM	48877
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2019 5:26:47 PM	48877
Xylenes, Total	ND	0.094		mg/Kg	1	11/21/2019 5:26:47 PM	48877
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	11/21/2019 5:26:47 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-050

Collection Date: 11/14/2019 10:00:00 AM

Client Sample ID: S-082148-111419-CN-C13-V2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.0		mg/Kg	2	11/26/2019 5:59:25 PM	48958
Arsenic	ND	5.0		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Barium	42	0.20		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Beryllium	ND	0.30		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Chromium	4.4	0.60		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Copper	2.5	0.60		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Iron	4200	250		mg/Kg	100	12/6/2019 3:23:29 PM	49091
Lead	0.80	0.50		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Manganese	56	0.20		mg/Kg	2	12/6/2019 3:21:59 PM	49091
Selenium	ND	5.0		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Silver	ND	0.50		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Titanium	78	0.50		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 5:13:42 PM	48958
Zinc	10	5.0		mg/Kg	2	11/26/2019 5:13:42 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-051

Collection Date: 11/14/2019 9:54:00 AM

Client Sample ID: S-082148-111419-CN-C13-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	81	60		mg/Kg	20	11/20/2019 12:22:44 AM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:01:01 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Barium	79	0.20		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Beryllium	0.41	0.30		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Chromium	6.0	0.61		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Copper	4.2	0.61		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Iron	5700	260		mg/Kg	100	12/6/2019 3:28:03 PM	49091
Lead	0.71	0.51		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Manganese	72	0.21		mg/Kg	2	12/6/2019 3:24:59 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Titanium	120	1.3		mg/Kg	5	12/6/2019 3:26:32 PM	49091
Uranium	ND	10		mg/Kg	2	11/26/2019 5:16:52 PM	48958
Zinc	14	5.1		mg/Kg	2	11/26/2019 5:16:52 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/20/2019 9:15:03 AM	48883
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2019 9:15:03 AM	48883
Surr: DNOP	105	70-130		%Rec	1	11/20/2019 9:15:03 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 5:49:42 PM	48877
Surr: BFB	99.6	77.4-118		%Rec	1	11/21/2019 5:49:42 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-052

Collection Date: 11/14/2019 9:57:00 AM

Client Sample ID: S-082148-111419-CN-C13-T2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	11/26/2019 6:02:37 PM	48958
Arsenic	ND	5.2		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Barium	95	0.21		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Beryllium	0.31	0.31		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Chromium	5.5	0.62		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Copper	3.6	0.62		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Iron	5200	260		mg/Kg	100	12/6/2019 3:32:33 PM	49091
Lead	ND	0.52		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Manganese	68	0.21		mg/Kg	2	12/6/2019 3:29:33 PM	49091
Selenium	ND	5.2		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Silver	ND	0.52		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Titanium	130	1.3		mg/Kg	5	12/6/2019 3:31:03 PM	49091
Uranium	ND	10		mg/Kg	2	11/26/2019 5:20:01 PM	48958
Zinc	11	5.2		mg/Kg	2	11/26/2019 5:20:01 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD **Lab Order:** 1911678
Project: Jal 4 Landfarm

Lab ID: 1911678-053 **Collection Date:** 11/14/2019 10:15:00 AM
Client Sample ID: S-082148-111419-CN-C14-V1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:04:11 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Barium	95	0.20		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Beryllium	0.41	0.31		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Chromium	7.2	0.61		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Copper	4.1	0.61		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Iron	7100	260		mg/Kg	100	12/6/2019 3:42:35 PM	49091
Lead	1.3	0.51		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Manganese	87	0.21		mg/Kg	2	12/6/2019 3:39:32 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Titanium	140	1.3		mg/Kg	5	12/6/2019 3:41:05 PM	49091
Uranium	ND	10		mg/Kg	2	11/26/2019 5:28:28 PM	48958
Zinc	16	5.1		mg/Kg	2	11/26/2019 5:28:28 PM	48958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/20/2019 9:24:11 AM	48883
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/20/2019 9:24:11 AM	48883
Surr: DNOP	72.9	70-130		%Rec	1	11/20/2019 9:24:11 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/21/2019 6:12:30 PM	48877
Surr: BFB	99.1	77.4-118		%Rec	1	11/21/2019 6:12:30 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/21/2019 6:12:30 PM	48877
Toluene	ND	0.047		mg/Kg	1	11/21/2019 6:12:30 PM	48877
Ethylbenzene	ND	0.047		mg/Kg	1	11/21/2019 6:12:30 PM	48877
Xylenes, Total	ND	0.095		mg/Kg	1	11/21/2019 6:12:30 PM	48877
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	11/21/2019 6:12:30 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-054

Collection Date: 11/14/2019 10:29:00 AM

Client Sample ID: S-082148-111419-CN-C14-V2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:11:23 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Barium	52	0.21		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Beryllium	0.41	0.31		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Chromium	6.8	0.62		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Copper	1.1	0.62		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Iron	7100	260		mg/Kg	100	12/6/2019 3:47:06 PM	49091
Lead	ND	0.51		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Manganese	38	0.21		mg/Kg	2	12/6/2019 3:44:05 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Titanium	120	1.3		mg/Kg	5	12/6/2019 3:45:35 PM	49091
Uranium	ND	10		mg/Kg	2	11/26/2019 5:31:36 PM	48958
Zinc	14	5.1		mg/Kg	2	11/26/2019 5:31:36 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-055

Collection Date: 11/14/2019 10:13:00 AM

Client Sample ID: S-082148-111419-CN-C14-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	11/20/2019 12:35:09 AM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Barium	150	0.21		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Beryllium	0.31	0.31		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Cadmium	ND	0.21		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Chromium	5.0	0.62		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Copper	2.4	0.61		mg/Kg	2	12/11/2019 6:23:47 PM	49252
Iron	4600	260		mg/Kg	100	12/10/2019 4:17:18 PM	48975
Lead	1.2	0.51		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Manganese	60	0.21		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Silver	ND	0.51		mg/Kg	2	12/10/2019 4:15:28 PM	48975
Titanium	110	1.3		mg/Kg	5	12/10/2019 6:09:26 PM	48975
Uranium	ND	10		mg/Kg	2	12/10/2019 6:07:36 PM	48975
Zinc	11	5.1		mg/Kg	2	12/10/2019 4:15:28 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/20/2019 9:33:19 AM	48883
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2019 9:33:19 AM	48883
Surr: DNOP	107	70-130		%Rec	1	11/20/2019 9:33:19 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2019 6:35:24 PM	48877
Surr: BFB	99.5	77.4-118		%Rec	1	11/21/2019 6:35:24 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 1911678

Project: Jal 4 Landfarm

Lab ID: 1911678-056

Collection Date: 11/14/2019 10:17:00 AM

Client Sample ID: S-082148-111419-CN-C14-T2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:12:59 PM	48958
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Barium	59	0.21		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Beryllium	ND	0.31		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Chromium	4.2	0.62		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Copper	2.2	0.62		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Iron	4000	260		mg/Kg	100	12/10/2019 4:28:18 PM	49091
Lead	1.6	0.51		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Manganese	46	0.21		mg/Kg	2	12/6/2019 3:48:37 PM	49091
Selenium	ND	5.1		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Silver	ND	0.51		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Titanium	76	0.51		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Uranium	ND	10		mg/Kg	2	11/26/2019 5:34:44 PM	48958
Zinc	9.9	5.1		mg/Kg	2	11/26/2019 5:34:44 PM	48958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-057

Collection Date: 11/14/2019 10:47:00 AM

Client Sample ID: S-082148-111419-CN-C15-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 2:01:06 PM	48975
Barium	140	0.20		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Beryllium	ND	0.31		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Cadmium	ND	0.20		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Chromium	4.5	0.61		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Copper	3.5	0.62		mg/Kg	2	12/11/2019 6:31:08 PM	49252
Iron	9900	250		mg/Kg	100	12/6/2019 2:18:37 PM	48975
Lead	0.83	0.51		mg/Kg	2	12/6/2019 2:01:06 PM	48975
Manganese	55	0.20		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Selenium	ND	5.1		mg/Kg	2	12/6/2019 2:01:06 PM	48975
Silver	ND	0.51		mg/Kg	2	12/3/2019 6:35:23 PM	48975
Titanium	160	1.3		mg/Kg	5	12/6/2019 2:07:09 PM	48975
Uranium	ND	10		mg/Kg	2	12/10/2019 6:11:28 PM	48975
Zinc	9.6	5.1		mg/Kg	2	12/3/2019 6:35:23 PM	48975
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/20/2019 9:42:28 AM	48883
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/20/2019 9:42:28 AM	48883
Surr: DNOP	102	70-130		%Rec	1	11/20/2019 9:42:28 AM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/21/2019 6:58:18 PM	48877
Surr: BFB	101	77.4-118		%Rec	1	11/21/2019 6:58:18 PM	48877
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/21/2019 6:58:18 PM	48877
Toluene	ND	0.049		mg/Kg	1	11/21/2019 6:58:18 PM	48877
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2019 6:58:18 PM	48877
Xylenes, Total	ND	0.098		mg/Kg	1	11/21/2019 6:58:18 PM	48877
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	11/21/2019 6:58:18 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-058**Collection Date:** 11/14/2019 10:56:00 AM**Client Sample ID:** S-082148-111419-CN-C15-V2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Arsenic	ND	5.1		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Barium	93	0.20		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Beryllium	0.41	0.31		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Chromium	6.7	0.61		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Copper	3.2	0.61		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Iron	6600	260		mg/Kg	100	11/26/2019 6:22:27 PM	48959
Lead	1.2	0.51		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Manganese	100	0.20		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Selenium	ND	5.1		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Silver	ND	0.51		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Titanium	140	1.3		mg/Kg	5	12/3/2019 6:46:58 PM	48959
Uranium	ND	10		mg/Kg	2	11/26/2019 6:16:08 PM	48959
Zinc	16	5.1		mg/Kg	2	11/26/2019 6:16:08 PM	48959

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

CLIENT: GHD
Project: Jal 4 Landfarm

Lab Order: 1911678

Lab ID: 1911678-059

Collection Date: 11/14/2019 10:42:00 AM

Client Sample ID: S-082148-111419-CN-C15-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	59		mg/Kg	20	11/20/2019 1:12:23 AM	48900
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.2		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Arsenic	ND	5.2		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Barium	180	0.21		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Beryllium	0.31	0.31		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Cadmium	ND	0.21		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Chromium	15	0.62		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Copper	170	0.62		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Iron	14000	260		mg/Kg	100	11/26/2019 6:25:37 PM	48959
Lead	5.7	0.52		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Manganese	110	0.21		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Selenium	ND	5.2		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Silver	ND	0.52		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Titanium	69	0.52		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Uranium	ND	10		mg/Kg	2	11/26/2019 6:24:02 PM	48959
Zinc	26	5.2		mg/Kg	2	11/26/2019 6:24:02 PM	48959
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	53	19		mg/Kg	2	11/20/2019 5:46:55 PM	48883
Motor Oil Range Organics (MRO)	210	95		mg/Kg	2	11/20/2019 5:46:55 PM	48883
Surr: DNOP	102	70-130		%Rec	2	11/20/2019 5:46:55 PM	48883
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/21/2019 7:21:14 PM	48877
Surr: BFB	99.6	77.4-118		%Rec	1	11/21/2019 7:21:14 PM	48877

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order: 1911678

Date Reported: 4/2/2020

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD**Lab Order:** 1911678**Project:** Jal 4 Landfarm**Lab ID:** 1911678-060**Collection Date:** 11/14/2019 10:45:00 AM**Client Sample ID:** S-082148-111419-CN-C15-T2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: pmf
Antimony	ND	5.1		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Arsenic	ND	5.1		mg/Kg	2	12/6/2019 2:20:07 PM	48959
Barium	190	0.20		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Beryllium	0.41	0.30		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Cadmium	ND	0.20		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Chromium	17	0.61		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Copper	250	0.61		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Iron	13000	250		mg/Kg	100	11/26/2019 6:34:23 PM	48959
Lead	7.3	0.51		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Manganese	120	0.20		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Selenium	ND	5.1		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Silver	ND	0.51		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Titanium	96	0.51		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Uranium	ND	10		mg/Kg	2	11/26/2019 6:32:45 PM	48959
Zinc	33	5.1		mg/Kg	2	11/26/2019 6:32:45 PM	48959

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-001	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-001B/S-082148-111319-CN-C1-V1			Sampling Time	9:50 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/4/2019 6:54:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/4/2019 6:54:00 PM	MAM	EPA 6020A	
%moisture	6.5	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-002	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-002B/S-082148-111319-CN-C1-V2			Sampling Time	10:00 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0525	12/4/2019 7:35:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/4/2019 7:35:00 PM	MAM	EPA 6020A	
%moisture	5.4	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Address: 4901 HAWKINS NE SUITE D
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Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-003	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-003C/S-082148-111319-CN-C1-T1			Sampling Time	2:00 PM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.054	12/4/2019 7:59:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/4/2019 7:59:00 PM	MAM	EPA 6020A	
%moisture	7.4	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-004	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-004B/S-082148-111319-CN-C1-T2			Sampling Time	2:05 PM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.326	mg/Kg	0.0545	12/4/2019 8:05:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/4/2019 8:05:00 PM	MAM	EPA 6020A	
%moisture	8.1	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-005	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-005B/S-082148-111319-CN-C2-V1			Sampling Time	10:22 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0555	12/4/2019 8:11:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.555	12/4/2019 8:11:00 PM	MAM	EPA 6020A	
%moisture	10.4	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-006	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-006B/S-082148-111319-CN-C2-V2			Sampling Time	10:45 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/4/2019 8:17:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/4/2019 8:17:00 PM	MAM	EPA 6020A	
%moisture	6.9	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-007	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-007C/S-082148-111319-CN-C2-T1			Sampling Time	2:10 PM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.135	mg/Kg	0.053	12/4/2019 8:23:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/4/2019 8:23:00 PM	MAM	EPA 6020A	
%moisture	7.0	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-008	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-008B/S-082148-111319-CN-C2-T2			Sampling Time	10:00 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.125	mg/Kg	0.0545	12/4/2019 8:28:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/4/2019 8:28:00 PM	MAM	EPA 6020A	
%moisture	7.9	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-009	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-009B/S-082148-111319-CN-C3-V1			Sampling Time	11:05 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/4/2019 8:34:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/4/2019 8:34:00 PM	MAM	EPA 6020A	
%moisture	6.0	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-010	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-010B/S-082148-111319-CN-C3-V2			Sampling Time	11:16 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.054	12/4/2019 8:40:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/4/2019 8:40:00 PM	MAM	EPA 6020A	
%moisture	8.6	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-011	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-011C/S-082148-111319-CN-C3-T1			Sampling Time	10:55 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.181	mg/Kg	0.0525	12/4/2019 8:46:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/4/2019 8:46:00 PM	MAM	EPA 6020A	
%moisture	6.6	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-012	Sampling Date	11/13/2019	Date/Time Received	11/19/2019	11:47 AM		
Client Sample ID	1911678-012B/S-082148-111319-CN-C3-T2			Sampling Time	11:00 AM			
Matrix	Soil							
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	Mercury-ICPMS	0.323	mg/Kg	0.0535	12/4/2019 8:52:00 PM	MAM	EPA 6020A	
	Thallium	ND	mg/Kg	0.535	12/4/2019 8:52:00 PM	MAM	EPA 6020A	
	%moisture	6.9	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-013	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM			
Client Sample ID	1911678-013B/S-082148-111319-CN-C4-V1			Sampling Time	11:30 AM			
Matrix	Soil							
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	Mercury-ICPMS	ND	mg/Kg	0.0535	12/4/2019 9:16:00 PM	MAM	EPA 6020A	
	Thallium	ND	mg/Kg	0.535	12/4/2019 9:16:00 PM	MAM	EPA 6020A	
	%moisture	7.0	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-014	Sampling Date	11/13/2019	Date/Time Received	11/19/2019	11:47 AM		
Client Sample ID	1911678-014B/S-082148-111319-CN-C4-V2			Sampling Time	11:35 AM			
Matrix	Soil							
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	Mercury-ICPMS	ND	mg/Kg	0.0545	12/4/2019 9:22:00 PM	MAM	EPA 6020A	
	Thallium	ND	mg/Kg	0.545	12/4/2019 9:22:00 PM	MAM	EPA 6020A	
	%moisture	8.4	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
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Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-015	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-015C/S-082148-111319-CN-C4-T1	Sampling Time	11:25 AM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.054	12/4/2019 9:28:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/4/2019 9:28:00 PM	MAM	EPA 6020A	
%moisture	7.0	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-016	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-016B/S-082148-111319-CN-C4-T2	Sampling Time	11:28 AM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/4/2019 9:34:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/4/2019 9:34:00 PM	MAM	EPA 6020A	
%moisture	7.1	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-017	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-017B/S-082148-111319-CN-C5-V1	Sampling Time	11:50 AM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/4/2019 9:40:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/4/2019 9:40:00 PM	MAM	EPA 6020A	
%moisture	6.3	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Address: 4901 HAWKINS NE SUITE D
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Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-018	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-018B/S-082148-111319-CN-C5-V2	Sampling Time	12:00 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0545	12/4/2019 9:46:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/4/2020 9:46:00 PM	MAM	EPA 6020A	
%moisture	8.7	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-019	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-019C/S-082148-111319-CN-C5-T1	Sampling Time	11:45 AM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.185	mg/Kg	0.052	12/4/2019 9:52:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.52	12/4/2019 9:52:00 PM	MAM	EPA 6020A	
%moisture	4.7	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

Sample Number	191119022-020	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-020B/S-082148-111319-CN-C5-T2	Sampling Time	11:47 AM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.169	mg/Kg	0.0515	12/4/2019 9:58:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.515	12/4/2019 9:58:00 PM	MAM	EPA 6020A	
%moisture	4.4	Percent		11/26/2019 1:59:00 PM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-021	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-021B/S-082148-111319-CN-C6-V1			Sampling Time	12:10 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0515	12/4/2019 11:21:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.515	12/4/2019 11:21:00 PM	MAM	EPA 6020A	
%moisture	3.8	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-022	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-022B/S-082148-111319-CN-C6-V2			Sampling Time	12:20 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/4/2019 11:57:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/4/2019 11:57:00 PM	MAM	EPA 6020A	
%moisture	6.2	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-023	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-023C/S-082148-111319-CN-C6-T1			Sampling Time	12:05 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0699	mg/Kg	0.0525	12/5/2019 12:03:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/5/2019 12:03:00 AM	MAM	EPA 6020A	
%moisture	5.7	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-024	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-024B/S-082148-111319-CN-C6-T2	Sampling Time	12:07 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/5/2019 12:09:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/5/2019 12:09:00 AM	MAM	EPA 6020A	
%moisture	6.1	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-025	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-025B/S-082148-111319-CN-C7-V1	Sampling Time	12:40 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0605	12/5/2019 12:15:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.605	12/5/2019 12:15:00 AM	MAM	EPA 6020A	
%moisture	18.0	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-026	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-026B/S-082148-111319-CN-C7-V2	Sampling Time	12:55 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/5/2019 12:21:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/5/2019 12:21:00 AM	MAM	EPA 6020A	
%moisture	7.2	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-027	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-027C/S-082148-111319-CN-C7-T1			Sampling Time	12:35 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0715	mg/Kg	0.054	12/5/2019 12:27:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/5/2019 12:27:00 AM	MAM	EPA 6020A	
%moisture	7.3	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-028	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-028B/S-082148-111319-CN-C7-T2			Sampling Time	12:37 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.054	12/5/2019 12:51:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/5/2019 12:51:00 AM	MAM	EPA 6020A	
%moisture	7.9	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-029	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-029B/S-082148-111319-CN-C8-V1			Sampling Time	1:45 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0565	12/5/2019 12:57:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.565	12/5/2019 12:57:00 AM	MAM	EPA 6020A	
%moisture	11.3	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-030	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-030B/S-082148-111319-CN-C8-V2			Sampling Time	12:20 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0525	12/5/2019 1:03:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/5/2019 1:03:00 AM	MAM	EPA 6020A	
%moisture	4.4	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-031	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-031C/S-082148-111319-CN-C8-T1			Sampling Time	1:10 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0545	12/5/2019 1:09:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/5/2019 1:09:00 AM	MAM	EPA 6020A	
%moisture	8.8	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-032	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-032B/S-082148-111319-CN-C8-T2			Sampling Time	1:12 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0868	mg/Kg	0.0535	12/5/2019 1:15:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/5/2019 1:15:00 AM	MAM	EPA 6020A	
%moisture	6.7	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-033	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-033B/S-082148-111319-CN-C9-V1			Sampling Time	2:40 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/5/2019 1:21:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/5/2019 1:21:00 AM	MAM	EPA 6020A	
%moisture	5.1	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-034	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-034B/S-082148-111319-CN-C9-V2			Sampling Time	2:42 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/5/2019 1:27:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/5/2019 1:27:00 AM	MAM	EPA 6020A	
%moisture	6.6	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-035	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-035C/S-082148-111319-CN-C9-T1			Sampling Time	2:33 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0571	mg/Kg	0.0525	12/5/2019 1:32:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/5/2019 1:32:00 AM	MAM	EPA 6020A	
%moisture	5.9	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Project Name: 1911678

Analytical Results Report

Sample Number	191119022-036	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-036B/S-082148-111319-CN-C9-T2			Sampling Time	2:35 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0666	mg/Kg	0.053	12/5/2019 1:38:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/5/2019 1:38:00 AM	MAM	EPA 6020A	
%moisture	6.4	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-037	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-037B/S-082148-111319-CN-C10-V1			Sampling Time	3:00 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0565	12/5/2019 1:44:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.565	12/5/2019 1:44:00 AM	MAM	EPA 6020A	
%moisture	11.8	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-038	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-038B/S-082148-111319-CN-C10-V2			Sampling Time	3:20 PM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0545	12/5/2019 2:08:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/5/2019 2:08:00 AM	MAM	EPA 6020A	
%moisture	9.4	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-039	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-039C/S-082148-111319-CN-C10-T1			Sampling Time	3:05 PM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0525	12/5/2019 2:14:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/5/2019 2:14:00 AM	MAM	EPA 6020A	
%moisture	5.3	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-040	Sampling Date	11/13/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-040B/S-082148-111319-CN-C10-T2			Sampling Time	3:10 PM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0539	mg/Kg	0.0535	12/5/2019 2:20:00 AM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/5/2019 2:20:00 AM	MAM	EPA 6020A	
%moisture	6.6	Percent		11/27/2019 10:12:00 AM	MAM	%moisture	

Sample Number	191119022-041	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-041B/S-082148-111419-CN-C11-V1			Sampling Time	9:15 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/11/2019 5:04:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 5:04:00 PM	MAM	EPA 6020A	
%moisture	6.5	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-042	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-042B/S-082148-111419-CN-C11-V2			Sampling Time	9:23 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.052	12/11/2019 5:40:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.52	12/11/2019 5:40:00 PM	MAM	EPA 6020A	
%moisture	4.9	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-043	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-043C/S-082148-111419-CN-C11-T1			Sampling Time	9:10 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.154	mg/Kg	0.053	12/11/2019 5:46:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/11/2019 5:46:00 PM	MAM	EPA 6020A	
%moisture	5.8	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-044	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-044B/S-082148-111419-CN-C11-T2			Sampling Time	9:12 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.111	mg/Kg	0.052	12/11/2019 5:52:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.52	12/11/2019 5:52:00 PM	MAM	EPA 6020A	
%moisture	5.1	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Project Name: 1911678

Analytical Results Report

Sample Number	191119022-045	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-045B/S-082148-111419-CN-C12-V1			Sampling Time	9:35 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/11/2019 5:58:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 5:58:00 PM	MAM	EPA 6020A	
%moisture	7.2	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-046	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-046B/S-082148-111419-CN-C12-V2			Sampling Time	9:42 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/11/2019 6:04:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 6:04:00 PM	MAM	EPA 6020A	
%moisture	6.2	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-047	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-047C/S-082148-111419-CN-C12-T1			Sampling Time	9:37 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.116	mg/Kg	0.0535	12/11/2019 6:10:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 6:10:00 PM	MAM	EPA 6020A	
%moisture	7.1	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-048	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-048B/S-082148-111419-CN-C12-T2			Sampling Time	9:40 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0918	mg/Kg	0.054	12/11/2019 6:16:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/11/2019 6:16:00 PM	MAM	EPA 6020A	
%moisture	7.2	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-049	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-049B/S-082148-111419-CN-C13-V1			Sampling Time	9:52 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/11/2019 6:21:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/11/2019 6:21:00 PM	MAM	EPA 6020A	
%moisture	6.0	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-050	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-050B/S-082148-111419-CN-C13-V2			Sampling Time	10:00 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0515	12/11/2019 6:51:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.515	12/11/2019 6:51:00 PM	MAM	EPA 6020A	
%moisture	4.3	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-051	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-051C/S-082148-111419-CN-C13-T1			Sampling Time	9:54 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.111	mg/Kg	0.054	12/11/2019 6:57:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.54	12/11/2019 6:57:00 PM	MAM	EPA 6020A	
%moisture	7.3	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-052	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-052B/S-082148-111419-CN-C13-T2			Sampling Time	9:57 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0904	mg/Kg	0.0535	12/11/2019 7:03:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 7:03:00 PM	MAM	EPA 6020A	
%moisture	6.7	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-053	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM
Client Sample ID	1911678-053B/S-082148-111419-CN-C14-V1			Sampling Time	10:15 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0525	12/11/2019 7:09:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/11/2019 7:09:00 PM	MAM	EPA 6020A	
%moisture	5.6	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-054	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-054B/S-082148-111419-CN-C14-V2			Sampling Time	10:29 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.053	12/11/2019 7:15:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.53	12/11/2019 7:15:00 PM	MAM	EPA 6020A	
%moisture	6.0	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-055	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-055C/S-082148-111419-CN-C14-T1			Sampling Time	10:13 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0535	12/11/2019 7:21:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.535	12/11/2019 7:21:00 PM	MAM	EPA 6020A	
%moisture	6.8	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-056	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-056B/S-082148-111419-CN-C14-T2			Sampling Time	10:17 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0525	12/11/2019 7:27:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.525	12/11/2019 7:27:00 PM	MAM	EPA 6020A	
%moisture	4.8	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report

Sample Number	191119022-057	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-057B/S-082148-111419-CN-C15-V1			Sampling Time	10:47 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0565	12/11/2019 7:33:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.565	12/11/2019 7:33:00 PM	MAM	EPA 6020A	
%moisture	11.9	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-058	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-058B/S-082148-111419-CN-C15-V2			Sampling Time	10:56 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0555	12/11/2019 7:39:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.555	12/11/2019 7:39:00 PM	MAM	EPA 6020A	
%moisture	9.7	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Sample Number	191119022-059	Sampling Date	11/14/2019	Date/Time Received	11/19/2019 11:47 AM		
Client Sample ID	1911678-059C/S-082148-111419-CN-C15-T1			Sampling Time	10:42 AM		
Matrix	Soil						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0696	mg/Kg	0.0545	12/11/2019 7:45:00 PM	MAM	EPA 6020A	
Thallium	ND	mg/Kg	0.545	12/11/2019 7:45:00 PM	MAM	EPA 6020A	
%moisture	7.2	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

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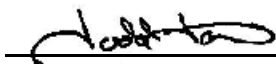
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 191119022
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1911678
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	191119022-060	Sampling Date	11/14/2019	Date/Time Received	11/19/2019	11:47 AM		
Client Sample ID	1911678-060B/S-082148-111419-CN-C15-T2				Sampling Time	10:45 AM		
Matrix	Soil							
Comments								
	Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
	Mercury-ICPMS	0.0872	mg/Kg	0.053	12/17/2019 1:23:00 AM	MAM	EPA 6020A	
	Thallium	ND	mg/Kg	0.53	12/17/2019 1:23:00 AM	MAM	EPA 6020A	
	%moisture	6.7	Percent		12/4/2019 1:51:00 PM	MAM	%moisture	

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Thallium	1.95	mg/kg	2	97.5	80-120	12/6/2019	12/17/2019
MERCURY-ICPMS	0.0273	mg/kg	0.025	109.2	80-120	12/6/2019	12/17/2019
Thallium	1.92	mg/kg	2	96.0	80-120	12/6/2019	12/11/2019
MERCURY-ICPMS	0.0277	mg/kg	0.025	110.8	80-120	12/6/2019	12/11/2019
Thallium	0.0406	mg/kg	0.04	101.5	80-120	12/2/2019	12/4/2019
MERCURY-ICPMS	0.0289	mg/kg	0.025	111.6	80-120	12/2/2019	12/4/2019
Thallium	1.91	mg/kg	2	95.5	80-120	12/2/2019	12/4/2019
MERCURY-ICPMS	0.0272	mg/kg	0.025	108.8	80-120	12/2/2019	12/4/2019

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
191119022-041A	Thallium	ND	21	mg/kg	21	100.0	75-125	12/6/2019	12/17/2019
191119022-021A	Thallium	ND	21.7	mg/kg	20.6	105.3	75-125	12/2/2019	12/4/2019
191119022-001A	Thallium	ND	20.7	mg/kg	21.2	97.6	75-125	12/2/2019	12/4/2019
191119022-041A	MERCURY-ICPMS	ND	0.306	mg/kg	0.318	96.2	75-125	12/6/2019	12/17/2019
191119022-041B	MERCURY-ICPMS	ND	0.322	mg/kg	0.318	101.3	75-125	12/6/2019	12/11/2019
191119022-021A	MERCURY-ICPMS	ND	0.352	mg/kg	0.318	110.7	75-125	12/2/2019	12/4/2019
191119022-001A	MERCURY-ICPMS	ND	0.307	mg/kg	0.318	96.5	75-125	12/2/2019	12/4/2019

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Thallium	21	mg/kg	21	100.0	0.0	0-20	12/6/2019	12/17/2019
Thallium	21.4	mg/kg	20.6	103.9	1.4	0-20	12/2/2019	12/4/2019
Thallium	20.7	mg/kg	21.2	97.6	0.0	0-20	12/2/2019	12/4/2019
MERCURY-ICPMS	0.324	mg/kg	0.315	102.9	5.7	0-20	12/6/2019	12/17/2019
MERCURY-ICPMS	0.268	mg/kg	0.315	85.1	18.3	0-20	12/6/2019	12/11/2019
MERCURY-ICPMS	0.317	mg/kg	0.315	100.6	10.5	0-20	12/2/2019	12/4/2019
MERCURY-ICPMS	0.306	mg/kg	0.315	97.1	0.3	0-20	12/2/2019	12/4/2019

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
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Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 191119022
Project Name: 1911678

Analytical Results Report Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Mercury-ICPMS	ND	mg/Kg	0.0001	12/6/2019	12/17/2019
Mercury-ICPMS	ND	mg/Kg	0.0001	12/6/2019	12/11/2019
Mercury-ICPMS	ND	mg/Kg	0.0001	12/2/2019	12/4/2019
Mercury-ICPMS	ND	mg/Kg	0.0001	12/2/2019	12/4/2019
Thallium	ND	mg/Kg	0.001	12/6/2019	12/17/2019
Thallium	ND	mg/Kg	0.001	12/6/2019	12/11/2019
Thallium	ND	mg/Kg	0.001	12/2/2019	12/4/2019
Thallium	ND	mg/Kg	0.001	12/2/2019	12/4/2019

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:Cert0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-001 **Customer Sample #:** 1911678-001B/S-082148-111319-CN-C1-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019

Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:50 AM

Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-001A **Customer Sample #:** METALS QC

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019

Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:50 AM

Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-002 **Customer Sample #:** 1911678-002B/S-082148-111319-CN-C1-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019

Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:00 AM

Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-003 **Customer Sample #:** 1911678-003C/S-082148-111319-CN-C1-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-004 **Customer Sample #:** 1911678-004B/S-082148-111319-CN-C1-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-005 **Customer Sample #:** 1911678-005B/S-082148-111319-CN-C2-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:22 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-006 **Customer Sample #:** 1911678-006B/S-082148-111319-CN-C2-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:45 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-007 **Customer Sample #:** 1911678-007C/S-082148-111319-CN-C2-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-008 **Customer Sample #:** 1911678-008B/S-082148-111319-CN-C2-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-009 **Customer Sample #:** 1911678-009B/S-082148-111319-CN-C3-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:05 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-010 **Customer Sample #:** 1911678-010B/S-082148-111319-CN-C3-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:16 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-011 **Customer Sample #:** 1911678-011C/S-082148-111319-CN-C3-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:55 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-012 **Customer Sample #:** 1911678-012B/S-082148-111319-CN-C3-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-013 **Customer Sample #:** 1911678-013B/S-082148-111319-CN-C4-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:30 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-014 **Customer Sample #:** 1911678-014B/S-082148-111319-CN-C4-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:35 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-015 **Customer Sample #:** 1911678-015C/S-082148-111319-CN-C4-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:25 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-016 **Customer Sample #:** 1911678-016B/S-082148-111319-CN-C4-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:28 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-017 **Customer Sample #:** 1911678-017B/S-082148-111319-CN-C5-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:50 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-018 **Customer Sample #:** 1911678-018B/S-082148-111319-CN-C5-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-019 **Customer Sample #:** 1911678-019C/S-082148-111319-CN-C5-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:45 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-020 **Customer Sample #:** 1911678-020B/S-082148-111319-CN-C5-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 11:47 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-021 **Customer Sample #:** 1911678-021B/S-082148-111319-CN-C6-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-021A **Customer Sample #:** METALS QC

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/13/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-022 **Customer Sample #:** 1911678-022B/S-082148-111319-CN-C6-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:20 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-023 **Customer Sample #:** 1911678-023C/S-082148-111319-CN-C6-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-024 **Customer Sample #:** 1911678-024B/S-082148-111319-CN-C6-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:07 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-025 **Customer Sample #:** 1911678-025B/S-082148-111319-CN-C7-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:40 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-026 **Customer Sample #:** 1911678-026B/S-082148-111319-CN-C7-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:55 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-027 **Customer Sample #:** 1911678-027C/S-082148-111319-CN-C7-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:35 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-028 **Customer Sample #:** 1911678-028B/S-082148-111319-CN-C7-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:37 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-029 **Customer Sample #:** 1911678-029B/S-082148-111319-CN-C8-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 1:45 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-030 **Customer Sample #:** 1911678-030B/S-082148-111319-CN-C8-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 12:20 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-031 **Customer Sample #:** 1911678-031C/S-082148-111319-CN-C8-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 1:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-032 **Customer Sample #:** 1911678-032B/S-082148-111319-CN-C8-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 1:12 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-033 **Customer Sample #:** 1911678-033B/S-082148-111319-CN-C9-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:40 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-034 **Customer Sample #:** 1911678-034B/S-082148-111319-CN-C9-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:42 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-035 **Customer Sample #:** 1911678-035C/S-082148-111319-CN-C9-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:33 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-036 **Customer Sample #:** 1911678-036B/S-082148-111319-CN-C9-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 2:35 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-037 **Customer Sample #:** 1911678-037B/S-082148-111319-CN-C10-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 3:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-038 **Customer Sample #:** 1911678-038B/S-082148-111319-CN-C10-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 3:20 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-039 **Customer Sample #:** 1911678-039C/S-082148-111319-CN-C10-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 3:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-040 **Customer Sample #:** 1911678-040B/S-082148-111319-CN-C10-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/13/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 3:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-041 **Customer Sample #:** 1911678-041B/S-082148-111419-CN-C11-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:15 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-041A **Customer Sample #:** METALS QC

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:15 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/14/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-041B **Customer Sample #:** METALS QC

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:15 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	11/14/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-042 **Customer Sample #:** 1911678-042B/S-082148-111419-CN-C11-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:23 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-043 **Customer Sample #:** 1911678-043C/S-082148-111419-CN-C11-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:10 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-044 **Customer Sample #:** 1911678-044B/S-082148-111419-CN-C11-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:12 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-045 **Customer Sample #:** 1911678-045B/S-082148-111419-CN-C12-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:35 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-046 **Customer Sample #:** 1911678-046B/S-082148-111419-CN-C12-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:42 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-047 **Customer Sample #:** 1911678-047C/S-082148-111419-CN-C12-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:37 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-048 **Customer Sample #:** 1911678-048B/S-082148-111419-CN-C12-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:40 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-049 **Customer Sample #:** 1911678-049B/S-082148-111419-CN-C13-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:52 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-050 **Customer Sample #:** 1911678-050B/S-082148-111419-CN-C13-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-051 **Customer Sample #:** 1911678-051C/S-082148-111419-CN-C13-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:54 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-052 **Customer Sample #:** 1911678-052B/S-082148-111419-CN-C13-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 9:57 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-053 **Customer Sample #:** 1911678-053B/S-082148-111419-CN-C14-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:15 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-054 **Customer Sample #:** 1911678-054B/S-082148-111419-CN-C14-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:29 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-055 **Customer Sample #:** 1911678-055C/S-082148-111419-CN-C14-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:13 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-056 **Customer Sample #:** 1911678-056B/S-082148-111419-CN-C14-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:17 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-057 **Customer Sample #:** 1911678-057B/S-082148-111419-CN-C15-V1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:47 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-058 **Customer Sample #:** 1911678-058B/S-082148-111419-CN-C15-V2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:56 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Sample #: 191119022-059 **Customer Sample #:** 1911678-059C/S-082148-111419-CN-C15-T1

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019
Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:42 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 191119022
Order Date: 11/19/2019

Contact Name: ANDY FREEMAN

Project Name: 1911678

Comment:

Sample #: 191119022-060 **Customer Sample #:** 1911678-060B/S-082148-111419-CN-C15-T2

Recv'd: ☒ **Matrix:** Soil **Collector:** **Date Collected:** 11/14/2019

Quantity: 1 **Date Received:** 11/19/2019 11:47:00 AM **Time Collected:** 10:45 AM

Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	12/3/2019	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	12/3/2019	<u>Normal (~10 Days)</u>
THALLIUM	M	EPA 6020A	11/29/2019	<u>Normal (~10 Days)</u>

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	3.8
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes
Total number of containers?	60



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 5

191119 022 HALL
1st SAMP 11/13/201 1st RCVD 12/3/2015
1911678 11/19/2019

SUB CONTRACTOR	Anateck Labs	COMPANY	Anateck Labs, Inc.	PHONE:	(208) 883-2839	FAX:	(208) 882-9246
ADDRESS:	1282 Alturas Dr			ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1911678-001B	S-082148-111319-CN-C1-V1	4OZGU	Soil	11/13/2019 9:50:00 AM	1	Hg by 6020
2	1911678-002B	S-082148-111319-CN-C1-V2	4OZGU	Soil	11/13/2019 10:00:00 AM	1	Hg by 6020
3	1911678-003C	S-082148-111319-CN-C1-T1	4OZGU	Soil	11/13/2019 2:00:00 PM	1	Hg by 6020
4	1911678-004B	S-082148-111319-CN-C1-T2	4OZGU	Soil	11/13/2019 2:05:00 PM	1	Hg by 6020
5	1911678-005B	S-082148-111319-CN-C2-V1	4OZGU	Soil	11/13/2019 10:22:00 AM	1	Hg by 6020
6	1911678-006B	S-082148-111319-CN-C2-V2	4OZGU	Soil	11/13/2019 10:45:00 AM	1	Hg by 6020
7	1911678-007C	S-082148-111319-CN-C2-T1	4OZGU	Soil	11/13/2019 2:10:00 PM	1	Hg by 6020
8	1911678-008B	S-082148-111319-CN-C2-T2	4OZGU	Soil	11/13/2019 10:00:00 AM	1	Hg by 6020
9	1911678-009B	S-082148-111319-CN-C3-V1	4OZGU	Soil	11/13/2019 11:05:00 AM	1	Hg by 6020
10	1911678-010B	S-082148-111319-CN-C3-V2	4OZGU	Soil	11/13/2019 11:16:00 AM	1	Hg by 6020
11	1911678-011C	S-082148-111319-CN-C3-T1	4OZGU	Soil	11/13/2019 10:55:00 AM	1	Hg by 6020
12	1911678-012B	S-082148-111319-CN-C3-T2	4OZGU	Soil	11/13/2019 11:00:00 AM	1	Hg by 6020
13	1911678-013B	S-082148-111319-CN-C4-V1	4OZGU	Soil	11/13/2019 11:30:00 AM	1	Hg by 6020

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HADCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						



CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 5

191119 022 HALL Last Due 12/3/2015
1st SAMPL 11/13/201 1st RCVD 11/19/2019
1911678

-014
-015
-016
-017
-018
-019
-020
-021
-022
-023
-024
-025
-026

SUB CONTRACTOR: Anatek Labs		COMPANY: Anatek Labs, Inc.		PHONE: (208) 883-2839		FAX: (208) 882-9246	
ADDRESS: 1282 Alturas Dr		CITY, STATE, ZIP: Moscow, ID 83843		ACCOUNT #:		EMAIL:	
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
14	1911678-014B	S-082148-111319-CN-C4-V2	4OZGU	Soil	11/13/2019 11:35:00 AM	1 Hg by 6020	
15	1911678-015C	S-082148-111319-CN-C4-T1	4OZGU	Soil	11/13/2019 11:25:00 AM	1 Hg by 6020	
16	1911678-016B	S-082148-111319-CN-C4-T2	4OZGU	Soil	11/13/2019 11:28:00 AM	1 Hg by 6020	
17	1911678-017B	S-082148-111319-CN-C5-V1	4OZGU	Soil	11/13/2019 11:50:00 AM	1 Hg by 6020	
18	1911678-018B	S-082148-111319-CN-C5-V2	4OZGU	Soil	11/13/2019 12:00:00 PM	1 Hg by 6020	
19	1911678-019C	S-082148-111319-CN-C5-T1	4OZGU	Soil	11/13/2019 11:45:00 AM	1 Hg by 6020	
20	1911678-020B	S-082148-111319-CN-C5-T2	4OZGU	Soil	11/13/2019 11:47:00 AM	1 Hg by 6020	
21	1911678-021B	S-082148-111319-CN-C6-V1	4OZGU	Soil	11/13/2019 12:10:00 PM	1 Hg by 6020	
22	1911678-022B	S-082148-111319-CN-C6-V2	4OZGU	Soil	11/13/2019 12:20:00 PM	1 Hg by 6020	
23	1911678-023C	S-082148-111319-CN-C6-T1	4OZGU	Soil	11/13/2019 12:05:00 PM	1 Hg by 6020	
24	1911678-024B	S-082148-111319-CN-C6-T2	4OZGU	Soil	11/13/2019 12:07:00 PM	1 Hg by 6020	
25	1911678-025B	S-082148-111319-CN-C7-V1	4OZGU	Soil	11/13/2019 12:40:00 PM	1 Hg by 6020	
26	1911678-026B	S-082148-111319-CN-C7-V2	4OZGU	Soil	11/13/2019 12:55:00 PM	1 Hg by 6020	

SPECIAL INSTRUCTIONS/ COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Reinquished By:	Date: 11/15/2019	Time: 10:05 AM	Received By:	Date:	Time:
Reinquished By:	Date:	Time:	Received By:	Date:	Time:
Reinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard ☐ Rush ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐					
REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE					
FOR LAB USE ONLY					
Temp of samples _____ °C Attempt to Cool? _____					
Comments					



CHAIN OF CUSTODY RECORD

PAGE: 3 OF: 5

191119 022 HALL Last Due 12/3/2019
1st SAMP 11/13/201 1st RCVD 11/19/2019
1911678

SUB CONTRACTOR: Anatek Labs		COMPANY: Anatek Labs, Inc.		PHONE: (208) 883-2839		FAX: (208) 882-9246	
ADDRESS: 1282 Alturas Dr				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Moscow, ID 83843							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
27	1911678-027C	S-082148-111319-CN-C7-T1	4OZGU	Soil	11/13/2019 12:35:00 PM	1 Hg by 6020	
28	1911678-028B	S-082148-111319-CN-C8-T2	4OZGU	Soil	11/13/2019 12:37:00 PM	1 Hg by 6020	
29	1911678-029B	S-082148-111319-CN-C8-V1	4OZGU	Soil	11/13/2019 1:45:00 PM	1 Hg by 6020	
30	1911678-030B	S-082148-111319-CN-C8-V2	4OZGU	Soil	11/13/2019 2:20:00 PM	1 Hg by 6020	
31	1911678-031C	S-082148-111319-CN-C8-T1	4OZGU	Soil	11/13/2019 1:10:00 PM	1 Hg by 6020	
32	1911678-032B	S-082148-111319-CN-C8-T2	4OZGU	Soil	11/13/2019 1:12:00 PM	1 Hg by 6020	
33	1911678-033B	S-082148-111319-CN-C9-V1	4OZGU	Soil	11/13/2019 2:40:00 PM	1 Hg by 6020	
34	1911678-034B	S-082148-111319-CN-C9-V2	4OZGU	Soil	11/13/2019 2:42:00 PM	1 Hg by 6020	
35	1911678-035C	S-082148-111319-CN-C9-T1	4OZGU	Soil	11/13/2019 2:33:00 PM	1 Hg by 6020	
36	1911678-036B	S-082148-111319-CN-C9-T2	4OZGU	Soil	11/13/2019 2:35:00 PM	1 Hg by 6020	
37	1911678-037B	S-082148-111319-CN-C10-V1	4OZGU	Soil	11/13/2019 3:00:00 PM	1 Hg by 6020	
38	1911678-038B	S-082148-111319-CN-C10-V2	4OZGU	Soil	11/13/2019 3:20:00 PM	1 Hg by 6020	
39	1911678-039C	S-082148-111319-CN-C10-T1	4OZGU	Soil	11/13/2019 3:05:00 PM	1 Hg by 6020	

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 11/15/2019	Time: 10:05 AM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: ☐ Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐					
REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE					
FOR LAB USE ONLY					
Temp of samples _____ °C Attempt to Cool? _____					
Comments: _____					



CHAIN OF CUSTODY RECORD

PAGE: 4 OF 5

191119 022 HALL Last Due 12/3/2015
1st SAMP 11/13/201 1st RCVD 11/19/2019
1911678

SUB CONTRACTOR	Anatek Labs	COMPANY:	Anatek Labs, Inc.	PHONE:	(208) 883-2839	FAX:	(208) 882-9246
ADDRESS:	1282 Alturas Dr			ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP:	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
40	1911678-040B	S-082148-111319-CN-C10-T2	4OZGU	Soil	11/13/2019 3:10:00 PM	1	Hg by 6020
41	1911678-041B	S-082148-111419-CN-C11-V1	4OZGU	Soil	11/14/2019 9:15:00 AM	1	Hg by 6020
42	1911678-042B	S-082148-111419-CN-C11-V2	4OZGU	Soil	11/14/2019 9:23:00 AM	1	Hg by 6020
43	1911678-043C	S-082148-111419-CN-C11-T1	4OZGU	Soil	11/14/2019 9:10:00 AM	1	Hg by 6020
44	1911678-044B	S-082148-111419-CN-C11-T2	4OZGU	Soil	11/14/2019 9:12:00 AM	1	Hg by 6020
45	1911678-045B	S-082148-111419-CN-C12-V1	4OZGU	Soil	11/14/2019 9:35:00 AM	1	Hg by 6020
46	1911678-046B	S-082148-111419-CN-C12-V2	4OZGU	Soil	11/14/2019 9:42:00 AM	1	Hg by 6020
47	1911678-047C	S-082148-111419-CN-C12-T1	4OZGU	Soil	11/14/2019 9:37:00 AM	1	Hg by 6020
48	1911678-048B	S-082148-111419-CN-C12-T2	4OZGU	Soil	11/14/2019 9:40:00 AM	1	Hg by 6020
49	1911678-049B	S-082148-111419-CN-C13-V1	4OZGU	Soil	11/14/2019 9:52:00 AM	1	Hg by 6020
50	1911678-050B	S-082148-111419-CN-C13-V2	4OZGU	Soil	11/14/2019 10:00:00 AM	1	Hg by 6020
51	1911678-051C	S-082148-111419-CN-C13-T1	4OZGU	Soil	11/14/2019 9:54:00 AM	1	Hg by 6020
52	1911678-052B	S-082148-111419-CN-C13-T2	4OZGU	Soil	11/14/2019 9:57:00 AM	1	Hg by 6020

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to labh@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 11/15/2019	Time: 10:05 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: ☐ Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						



CHAIN OF CUSTODY RECORD

PAGE: 5 OF: 5

191119 022 HALL Last Due 12/3/2015
1st SAMP 11/13/201 1st RCVD 11/19/2019
1911678

SUB CONTRACTOR:	Anatek Labs	COMPANY:	Anatek Labs, Inc.	PHONE:	(208) 883-2839	FAX:	(208) 882-9246
ADDRESS:	1282 Alturas Dr			ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP:	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
53	1911678-053B	S-082148-111419-CN-C14-V1	4OZGU	Soil	11/14/2019 10:15:00 AM	1	Hg by 6020
54	1911678-054B	S-082148-111319-CN-C14-V2	4OZGU	Soil	11/13/2019 10:29:00 AM	1	Hg by 6020
55	1911678-055C	S-082148-111419-CN-C14-T1	4OZGU	Soil	11/14/2019 10:13:00 AM	1	Hg by 6020
56	1911678-056B	S-082148-111419-CN-C14-T2	4OZGU	Soil	11/14/2019 10:17:00 AM	1	Hg by 6020
57	1911678-057B	S-082148-111419-CN-C15-V1	4OZGU	Soil	11/14/2019 10:47:00 AM	1	Hg by 6020
58	1911678-058B	S-082148-111419-CN-C15-V2	4OZGU	Soil	11/14/2019 10:56:00 AM	1	Hg by 6020
59	1911678-059C	S-082148-111419-CN-C15-T1	4OZGU	Soil	11/14/2019 10:42:00 AM	1	Hg by 6020
60	1911678-060B	S-082148-111419-CN-C15-T2	4OZGU	Soil	11/14/2019 10:45:00 AM	1	Hg by 6020

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 11/15/2019	Time: 10:05 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE FOR LAB USE ONLY Temp of samples: °C Attempt to Cool? ☐ Comments:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						



Anatek Labs, Inc.

Sample Receipt and Preservation Form

191119 022 **HALL** Last Due 12/3/2019
1st SAMP 11/13/201 1st RCVD 11/19/2019
1911678

Client Name: HALLProject: 1911678TAT: Normal RUSH: _____ daysSamples Received From: FedEx UPS USPS Client Courier Other: _____Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/ANumber of Coolers/Boxes: 4 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice NonePacking Material: Bubble Wrap Bags Foam/Peanuts None Other: _____Cooler Temp As Read (°C): 3.8 Cooler Temp Corrected (°C): 3.8 Thermometer Used: 1K3

Samples Received Intact?	Yes	<u>No</u>	N/A
Chain of Custody Present?	<u>Yes</u>	No	N/A
Samples Received Within Hold Time?	<u>Yes</u>	No	N/A
Samples Properly Preserved?	Yes	No	<u>N/A</u>
VOC Vials Free of Headspace (<6mm)?	Yes	No	<u>N/A</u>
VOC Trip Blanks Present?	Yes	No	<u>N/A</u>
Labels and Chains Agree?	<u>Yes</u>	No	N/A
Total Number of Sample Bottles Received:	<u>160</u>		

Comments:

-160

Chain of Custody Fully Completed?	<u>Yes</u>	No	N/A
Correct Containers Received?	<u>Yes</u>	No	N/A
Anatek Bottles Used?	Yes	<u>No</u>	Unknown

Record preservatives (and lot numbers, if known) for containers below:

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

-160 → replaced broken lid	191119022

Received/Inspected By: KHK Date/Time: 11-19-19 11:47

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48900	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 48900	RunNo: 64625
Prep Date: 11/19/2019	Analysis Date: 11/19/2019	SeqNo: 2213578 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-48900	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 48900	RunNo: 64625
Prep Date: 11/19/2019	Analysis Date: 11/19/2019	SeqNo: 2213579 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 98.4 90 110

Sample ID: 1911678-023BMS	SampType: ms	TestCode: EPA Method 300.0: Anions
Client ID: S-082148-111319-C	Batch ID: 48900	RunNo: 64625
Prep Date: 11/19/2019	Analysis Date: 11/19/2019	SeqNo: 2213586 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	61 30.00 0 0 54 141 S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: LCS-48831	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 48831	RunNo: 64601								
Prep Date: 11/18/2019	Analysis Date: 11/19/2019	SeqNo: 2212601			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	63.9	124			
Surr: DNOP	4.4		5.000		88.0	70	130			

Sample ID: MB-48831	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 48831	RunNo: 64601								
Prep Date: 11/18/2019	Analysis Date: 11/19/2019	SeqNo: 2212604			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	70	130			

Sample ID: 1911678-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-082148-111319-C	Batch ID: 48831	RunNo: 64601								
Prep Date: 11/18/2019	Analysis Date: 11/19/2019	SeqNo: 2212950			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.3	46.55	0	122	57	142			
Surr: DNOP	5.1		4.655		110	70	130			

Sample ID: 1911678-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-082148-111319-C	Batch ID: 48831	RunNo: 64601								
Prep Date: 11/18/2019	Analysis Date: 11/19/2019	SeqNo: 2212953			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.9	49.60	0	105	57	142	8.98	20	
Surr: DNOP	4.1		4.960		83.5	70	130	0	0	

Sample ID: 1911678-037AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-082148-111319-C	Batch ID: 48883	RunNo: 64627								
Prep Date: 11/19/2019	Analysis Date: 11/20/2019	SeqNo: 2213658			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.9	49.70	2.245	111	57	142			
Surr: DNOP	5.5		4.970		110	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-037AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	S-082148-111319-C	Batch ID: 48883		RunNo: 64627						
Prep Date:	11/19/2019	Analysis Date: 11/20/2019		SeqNo: 2213659		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.5	47.57	2.245	89.1	57	142	24.8	20	R
Surr: DNOP	3.8		4.757		80.8	70	130	0	0	

Sample ID: LCS-48883		SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS		Batch ID: 48883			RunNo: 64627					
Prep Date: 11/19/2019		Analysis Date: 11/20/2019			SeqNo: 2213674		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	63.9	124			
Surr: DNOP	4.3		5.000		85.7	70	130			

Sample ID: MB-48883		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS		Batch ID: 48883		RunNo: 64627						
Prep Date: 11/19/2019		Analysis Date: 11/20/2019		SeqNo: 2213675			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48822	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 48822	RunNo: 64583								
Prep Date: 11/15/2019	Analysis Date: 11/18/2019	SeqNo: 2211939 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	77.4	118			

Sample ID: LCS-48822	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 48822	RunNo: 64583								
Prep Date: 11/15/2019	Analysis Date: 11/18/2019	SeqNo: 2211940 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80	120			
Surr: BFB	1100		1000		112	77.4	118			

Sample ID: MB-48877	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 48877	RunNo: 64687								
Prep Date: 11/19/2019	Analysis Date: 11/21/2019	SeqNo: 2216247 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	77.4	118			

Sample ID: LCS-48877	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 48877	RunNo: 64687								
Prep Date: 11/19/2019	Analysis Date: 11/21/2019	SeqNo: 2216248 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	1100		1000		113	77.4	118			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48822	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 48822	RunNo: 64583								
Prep Date: 11/15/2019	Analysis Date: 11/18/2019	SeqNo: 2211967 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-48822	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 48822	RunNo: 64583								
Prep Date: 11/15/2019	Analysis Date: 11/18/2019	SeqNo: 2211968 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: MB-48877	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 48877	RunNo: 64687								
Prep Date: 11/19/2019	Analysis Date: 11/21/2019	SeqNo: 2216287 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	80	120			

Sample ID: LCS-48877	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 48877	RunNo: 64687								
Prep Date: 11/19/2019	Analysis Date: 11/21/2019	SeqNo: 2216288 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48959	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals
Client ID: PBS	Batch ID: 48959	RunNo: 64742
Prep Date: 11/21/2019	Analysis Date: 11/22/2019	SeqNo: 2218468 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Iron	ND	2.5								
Lead	ND	0.25								
Manganese	ND	0.10								
Selenium	ND	2.5								
Silver	ND	0.25								
Titanium	ND	0.25								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID: LCS-48959	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals
Client ID: LCSS	Batch ID: 48959	RunNo: 64742
Prep Date: 11/21/2019	Analysis Date: 11/22/2019	SeqNo: 2218470 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	95.5	80	120			
Arsenic	23	2.5	25.00	0	91.4	80	120			
Barium	23	0.10	25.00	0	92.7	80	120			
Beryllium	24	0.15	25.00	0	95.2	80	120			
Cadmium	23	0.10	25.00	0	91.6	80	120			
Chromium	23	0.30	25.00	0	92.4	80	120			
Copper	26	0.30	25.00	0	102	80	120			
Iron	29	2.5	25.00	0	116	80	120			
Lead	24	0.25	25.00	0	95.8	80	120			
Manganese	24	0.10	25.00	0	95.0	80	120			
Selenium	22	2.5	25.00	0	86.1	80	120			
Silver	4.7	0.25	5.000	0	94.6	80	120			
Titanium	24	0.25	25.00	0	97.9	80	120			
Uranium	22	5.0	25.00	0	89.9	80	120			
Zinc	23	2.5	25.00	0	90.4	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48837	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 48837	RunNo: 64742								
Prep Date: 11/18/2019	Analysis Date: 11/22/2019	SeqNo: 2218474	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Iron	ND	2.5								
Lead	ND	0.25								
Manganese	ND	0.10								
Selenium	ND	2.5								
Silver	ND	0.25								
Titanium	ND	0.25								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID: LCS-48837	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 48837	RunNo: 64742								
Prep Date: 11/18/2019	Analysis Date: 11/22/2019	SeqNo: 2218476	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	97.1	80	120			
Arsenic	24	2.5	25.00	0	96.5	80	120			
Barium	24	0.10	25.00	0	94.6	80	120			
Beryllium	24	0.15	25.00	0	94.8	80	120			
Cadmium	23	0.10	25.00	0	93.3	80	120			
Chromium	24	0.30	25.00	0	94.8	80	120			
Copper	26	0.30	25.00	0	103	80	120			
Iron	25	2.5	25.00	0	100	80	120			
Lead	24	0.25	25.00	0	96.1	80	120			
Manganese	24	0.10	25.00	0	94.8	80	120			
Selenium	22	2.5	25.00	0	87.2	80	120			
Silver	4.8	0.25	5.000	0	95.8	80	120			
Titanium	25	0.25	25.00	0	98.6	80	120			
Uranium	24	5.0	25.00	0	94.5	80	120			
Zinc	22	2.5	25.00	0	89.9	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48958	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 48958	RunNo: 64742								
Prep Date: 11/21/2019	Analysis Date: 11/22/2019	SeqNo: 2218477	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Lead	ND	0.25								
Selenium	ND	2.5								
Silver	ND	0.25								
Titanium	ND	0.25								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID: LCS-48958	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 48958	RunNo: 64742								
Prep Date: 11/21/2019	Analysis Date: 11/22/2019	SeqNo: 2218484	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.4	80	120			
Arsenic	24	2.5	25.00	0	94.1	80	120			
Barium	23	0.10	25.00	0	92.5	80	120			
Beryllium	23	0.15	25.00	0	93.0	80	120			
Cadmium	23	0.10	25.00	0	91.8	80	120			
Chromium	23	0.30	25.00	0	92.7	80	120			
Copper	25	0.30	25.00	0	101	80	120			
Lead	24	0.25	25.00	0	95.8	80	120			
Selenium	20	2.5	25.00	0	81.0	80	120			
Silver	4.7	0.25	5.000	0	94.4	80	120			
Titanium	24	0.25	25.00	0	96.6	80	120			
Uranium	23	5.0	25.00	0	90.7	80	120			
Zinc	23	2.5	25.00	0	90.3	80	120			

Sample ID: 1911678-002AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64742								
Prep Date: 11/18/2019	Analysis Date: 11/22/2019	SeqNo: 2218566	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	6.1	5.0	25.07	0	24.5	75	125			S
Arsenic	21	5.0	25.07	0	81.9	75	125			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-002AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64742								
Prep Date: 11/18/2019	Analysis Date: 11/22/2019	SeqNo: 2218566	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	97	0.20	25.07	76.14	83.3	75	125			
Beryllium	25	0.30	25.07	0.3679	97.5	75	125			
Cadmium	24	0.20	25.07	0	97.5	75	125			
Chromium	31	0.60	25.07	6.720	97.6	75	125			
Copper	30	0.60	25.07	2.088	110	75	125			
Lead	26	0.50	25.07	2.089	96.8	75	125			
Manganese	88	0.20	25.07	64.23	93.8	75	125			
Silver	5.2	0.50	5.015	0	104	75	125			
Zinc	35	5.0	25.07	13.20	85.9	75	125			

Sample ID: 1911678-002AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64742								
Prep Date: 11/18/2019	Analysis Date: 11/22/2019	SeqNo: 2218567	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	5.5	5.0	25.15	0	21.8	75	125	11.3	20	S
Arsenic	26	5.0	25.15	0	102	75	125	22.6	20	R
Barium	99	0.20	25.15	76.14	92.7	75	125	2.47	20	
Beryllium	24	0.30	25.15	0.3679	94.8	75	125	2.49	20	
Cadmium	24	0.20	25.15	0	93.9	75	125	3.38	20	
Chromium	30	0.60	25.15	6.720	93.8	75	125	2.88	20	
Copper	29	0.60	25.15	2.088	106	75	125	3.04	20	
Lead	24	0.50	25.15	2.089	88.6	75	125	7.89	20	
Manganese	86	0.20	25.15	64.23	84.9	75	125	2.50	20	
Silver	5.0	0.50	5.031	0	99.1	75	125	4.90	20	
Zinc	34	5.0	25.15	13.20	82.2	75	125	2.48	20	

Sample ID: 1911678-002APS	SampType: PS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64742								
Prep Date:	Analysis Date: 11/22/2019	SeqNo: 2218568	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	47	5.0	49.66	0	94.0	80	120			
Arsenic	48	5.0	49.66	0	97.1	80	120			

Sample ID: 1911678-008AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64742								
Prep Date: 11/21/2019	Analysis Date: 11/22/2019	SeqNo: 2218578	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-008AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111319-C		Batch ID: 48958		RunNo: 64742						
Prep Date: 11/21/2019		Analysis Date: 11/22/2019		SeqNo: 2218578		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	5.8	5.1	25.40	0	22.7	75	125			S
Arsenic	25	5.1	25.40	3.060	87.7	75	125			
Barium	190	0.20	25.40	189.9	-7.91	75	125			
Beryllium	23	0.30	25.40	0.4618	90.0	75	125			
Cadmium	23	0.20	25.40	0	88.9	75	125			
Chromium	31	0.61	25.40	7.854	90.9	75	125			ES
Copper	31	0.61	25.40	5.673	101	75	125			
Lead	25	0.51	25.40	1.451	91.2	75	125			
Silver	5.1	0.51	5.081	0.4524	91.7	75	125			
Titanium	130	0.51	25.40	87.66	175	75	125			

Sample ID: 1911678-008AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111319-C		Batch ID: 48958		RunNo: 64742						
Prep Date: 11/21/2019		Analysis Date: 11/22/2019		SeqNo: 2218579		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	7.0	5.1	25.41	0	27.5	75	125	19.1	20	S
Arsenic	25	5.1	25.41	3.060	84.7	75	125	3.01	20	RS
Barium	240	0.20	25.41	189.9	217	75	125	26.4	20	
Beryllium	24	0.30	25.41	0.4618	92.8	75	125	3.02	20	
Cadmium	23	0.20	25.41	0	90.6	75	125	1.95	20	
Chromium	32	0.61	25.41	7.854	93.5	75	125	2.17	20	
Copper	33	0.61	25.41	5.673	107	75	125	4.29	20	
Lead	25	0.51	25.41	1.451	93.3	75	125	2.22	20	
Silver	5.2	0.51	5.083	0.4524	93.9	75	125	2.14	20	
Titanium	130	0.51	25.41	87.66	175	75	125	0.162	20	ES

Sample ID: 1911678-008APS		SampType: PS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111319-C		Batch ID: 48958		RunNo: 64742						
Prep Date:		Analysis Date: 11/22/2019		SeqNo: 2218580		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	46	5.0	49.90	0	92.5	80	120			
Barium	250	0.20	49.90	189.9	112	80	120			

Sample ID: MB-48958		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS		Batch ID: 48958		RunNo: 64789						
Prep Date: 11/21/2019		Analysis Date: 11/25/2019		SeqNo: 2220396		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48958	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 48958	RunNo: 64789								
Prep Date: 11/21/2019	Analysis Date: 11/25/2019	SeqNo: 2220396	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.19	0.10								

Sample ID: LCS-48958	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 48958	RunNo: 64789								
Prep Date: 11/21/2019	Analysis Date: 11/25/2019	SeqNo: 2220398	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	24	0.10	25.00	0	96.7	80	120			B

Sample ID: 1911678-002AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64789								
Prep Date: 11/18/2019	Analysis Date: 11/25/2019	SeqNo: 2220459	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	22	10	25.07	0	89.0	75	125			

Sample ID: 1911678-002AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 64789								
Prep Date: 11/18/2019	Analysis Date: 11/25/2019	SeqNo: 2220460	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	24	10	25.15	0	94.4	75	125	6.27	20	

Sample ID: 1911678-008AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64789								
Prep Date: 11/21/2019	Analysis Date: 11/25/2019	SeqNo: 2220465	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	22	10	25.40	0	85.4	75	125			
Zinc	37	5.1	25.40	14.20	90.3	75	125			

Sample ID: 1911678-008AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64789								
Prep Date: 11/21/2019	Analysis Date: 11/25/2019	SeqNo: 2220466	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	20	10	25.41	0	79.7	75	125	6.87	20	
Zinc	38	5.1	25.41	14.20	95.2	75	125	3.29	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-008AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64788								
Prep Date: 11/21/2019	Analysis Date: 11/26/2019	SeqNo: 2221364	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	19	5.1	25.40	0	73.2	75	125			S

Sample ID: 1911678-008AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64788								
Prep Date: 11/21/2019	Analysis Date: 11/26/2019	SeqNo: 2221365	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	19	5.1	25.41	0	74.8	75	125	2.20	20	S

Sample ID: 1911678-008APS	SampType: PS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 64788								
Prep Date:	Analysis Date: 11/26/2019	SeqNo: 2221366	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	40	5.0	49.90	0	80.4	80	120			

Sample ID: 1911678-058AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111419-C	Batch ID: 48959	RunNo: 64788								
Prep Date: 11/21/2019	Analysis Date: 11/26/2019	SeqNo: 2221428	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	5.1	25.74	0	17.6	75	125			S
Arsenic	29	5.1	25.74	0	112	75	125			
Barium	120	0.21	25.74	93.05	93.2	75	125			
Beryllium	27	0.31	25.74	0.4099	104	75	125			
Cadmium	27	0.21	25.74	0	105	75	125			
Chromium	34	0.62	25.74	6.661	105	75	125			
Copper	33	0.62	25.74	3.177	116	75	125			
Lead	28	0.51	25.74	1.230	102	75	125			
Manganese	140	0.21	25.74	104.1	154	75	125			S
Selenium	21	5.1	25.74	0	80.8	75	125			
Silver	5.7	0.51	5.147	0	110	75	125			
Uranium	22	10	25.74	0	86.8	75	125			
Zinc	41	5.1	25.74	16.09	97.9	75	125			

Sample ID: 1911678-058AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111419-C	Batch ID: 48959	RunNo: 64788								
Prep Date: 11/21/2019	Analysis Date: 11/26/2019	SeqNo: 2221429	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-058AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48959		RunNo: 64788						
Prep Date: 11/21/2019		Analysis Date: 11/26/2019		SeqNo: 2221429		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	5.1	25.38	0	13.6	75	125	0	20	RS
Arsenic	27	5.1	25.38	0	108	75	125	5.04	20	
Barium	120	0.20	25.38	93.05	88.9	75	125	1.22	20	
Beryllium	26	0.30	25.38	0.4099	99.6	75	125	6.03	20	
Cadmium	25	0.20	25.38	0	99.2	75	125	6.89	20	
Chromium	31	0.61	25.38	6.661	97.0	75	125	7.08	20	
Copper	31	0.61	25.38	3.177	109	75	125	6.82	20	
Lead	25	0.51	25.38	1.230	95.6	75	125	7.95	20	
Manganese	130	0.20	25.38	104.1	90.9	75	125	12.3	20	
Selenium	21	5.1	25.38	0	82.8	75	125	1.04	20	
Silver	5.5	0.51	5.076	0	108	75	125	3.24	20	
Uranium	20	10	25.38	0	78.4	75	125	11.6	20	
Zinc	38	5.1	25.38	16.09	86.2	75	125	8.37	20	

Sample ID: 1911678-058APS		SampType: PS		TestCode: EPA Method 6010B: Soil Metals						
Client ID:	S-082148-111419-C	Batch ID: 48959		RunNo: 64788						
Prep Date:		Analysis Date: 11/26/2019		SeqNo: 2221430		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	48	5.1	51.24	0	93.8	80	120			
Manganese	150	0.20	51.24	104.1	82.4	80	120			

Sample ID: 1911678-057AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 64909						
Prep Date: 11/22/2019		Analysis Date: 12/3/2019		SeqNo: 2225845		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	5.2	26.09	0	0	75	125			S
Barium	60	0.21	26.09	139.5	-304	75	125			S
Beryllium	0.53	0.31	26.09	0.2548	1.07	75	125			S
Cadmium	ND	0.21	26.09	0	0	75	125			S
Chromium	9.4	0.63	26.09	4.542	18.6	75	125			S
Manganese	55	0.21	26.09	55.30	0.711	75	125			S
Silver	ND	0.52	5.218	0.2420	-4.64	75	125			S
Zinc	18	5.2	26.09	9.592	30.6	75	125			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-057AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 64909						
Prep Date: 11/22/2019		Analysis Date: 12/3/2019		SeqNo: 2225846		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	5.6	5.1	25.29	0	22.0	75	125	200	20	RS
Barium	89	0.20	25.29	139.5	-200	75	125	38.5	20	RS
Beryllium	25	0.30	25.29	0.2548	97.4	75	125	192	20	R
Cadmium	24	0.20	25.29	0	93.3	75	125	200	20	R
Chromium	33	0.61	25.29	4.542	111	75	125	111	20	R
Manganese	78	0.20	25.29	55.30	89.5	75	125	33.6	20	R
Silver	4.5	0.51	5.058	0.2420	83.4	75	125	200	20	R
Zinc	38	5.1	25.29	9.592	111	75	125	72.7	20	R

Sample ID: MB-48975		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS		Batch ID: 48975		RunNo: 64909						
Prep Date: 11/22/2019		Analysis Date: 12/3/2019		SeqNo: 2225858		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Iron	ND	2.5								
Manganese	ND	0.10								
Silver	ND	0.25								
Titanium	ND	0.25								
Zinc	ND	2.5								

Sample ID: LCS-48975		SampType: LCS			TestCode: EPA Method 6010B: Soil Metals					
Client ID: LCSS		Batch ID: 48975			RunNo: 64909					
Prep Date: 11/22/2019		Analysis Date: 12/3/2019			SeqNo: 2225860		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	94.9	80	120			
Barium	24	0.10	25.00	0	94.0	80	120			
Beryllium	23	0.15	25.00	0	94.0	80	120			
Cadmium	23	0.10	25.00	0	93.2	80	120			
Chromium	23	0.30	25.00	0	92.9	80	120			
Iron	25	2.5	25.00	0	100	80	120			
Manganese	23	0.10	25.00	0	94.0	80	120			
Silver	5.0	0.25	5.000	0	101	80	120			
Titanium	25	0.25	25.00	0	98.4	80	120			
Zinc	22	2.5	25.00	0	88.1	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-48975	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 48975	RunNo: 65017								
Prep Date: 11/22/2019	Analysis Date: 12/6/2019	SeqNo: 2229976	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Lead	ND	0.25								
Selenium	ND	2.5								
Uranium	ND	5.0								

Sample ID: LCS-48975	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 48975	RunNo: 65017								
Prep Date: 11/22/2019	Analysis Date: 12/6/2019	SeqNo: 2229978	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.5	25.00	0	102	80	120			
Lead	25	0.25	25.00	0	98.8	80	120			
Selenium	25	2.5	25.00	0	98.6	80	120			
Uranium	23	5.0	25.00	0	94.0	80	120			

Sample ID: MB-49091	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 49091	RunNo: 65017								
Prep Date: 12/2/2019	Analysis Date: 12/6/2019	SeqNo: 2229979	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	2.5								
Manganese	ND	0.10								
Titanium	ND	0.25								

Sample ID: LCS-49091	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 49091	RunNo: 65017								
Prep Date: 12/2/2019	Analysis Date: 12/6/2019	SeqNo: 2229981	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	26	2.5	25.00	0	104	80	120			
Manganese	25	0.10	25.00	0	101	80	120			
Titanium	25	0.25	25.00	0	102	80	120			

Sample ID: 1911678-002AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48837	RunNo: 65017								
Prep Date: 11/18/2019	Analysis Date: 12/6/2019	SeqNo: 2229989	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	23	5.0	25.07	0	91.2	75	125			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-002AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111319-C		Batch ID: 48837		RunNo: 65017						
Prep Date: 11/18/2019		Analysis Date: 12/6/2019		SeqNo: 2229990		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	75	5.0	25.15	0	299	75	125	107	20	RS

Sample ID: 1911678-057AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 65017						
Prep Date: 11/22/2019		Analysis Date: 12/6/2019		SeqNo: 2230097		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	28	5.2	26.09	0	109	75	125			
Lead	28	0.52	26.09	0.8307	106	75	125			
Selenium	23	5.2	26.09	0	90.0	75	125			

Sample ID: 1911678-057AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 65017						
Prep Date: 11/22/2019		Analysis Date: 12/6/2019		SeqNo: 2230099		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	5.1	25.29	0	102	75	125	10.0	20	
Lead	25	0.51	25.29	0.8307	96.0	75	125	12.4	20	
Selenium	25	5.1	25.29	0	98.5	75	125	5.87	20	

Sample ID: 1911678-057AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 65017						
Prep Date: 11/22/2019		Analysis Date: 12/6/2019		SeqNo: 2230108		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Titanium	190	1.3	26.09	162.6	118	75	125			

Sample ID: 1911678-057AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 65017						
Prep Date: 11/22/2019		Analysis Date: 12/6/2019		SeqNo: 2230110		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Titanium	190	1.3	25.29	162.6	114	75	125	0.997	20	

Sample ID: 1911678-057AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-082148-111419-C		Batch ID: 48975		RunNo: 65088						
Prep Date: 11/22/2019		Analysis Date: 12/10/2019		SeqNo: 2233331		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	11	10	26.09	0	42.4	75	125			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: 1911678-057AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-082148-111419-C	Batch ID: 48975	RunNo: 65088
Prep Date: 11/22/2019	Analysis Date: 12/10/2019	SeqNo: 2233335 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Uranium	10	10 25.29 0 40.4 75 125 7.95 20 S

Sample ID: MB-49252	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals
Client ID: PBS	Batch ID: 49252	RunNo: 65116
Prep Date: 12/10/2019	Analysis Date: 12/11/2019	SeqNo: 2234338 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	ND	0.30

Sample ID: LCS-49252	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals
Client ID: LCSS	Batch ID: 49252	RunNo: 65116
Prep Date: 12/10/2019	Analysis Date: 12/11/2019	SeqNo: 2234340 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	26	0.30 25.00 0 104 80 120

Sample ID: 1911678-057AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-082148-111419-C	Batch ID: 49252	RunNo: 65116
Prep Date: 12/10/2019	Analysis Date: 12/11/2019	SeqNo: 2234416 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	34	0.60 24.87 3.475 122 75 125

Sample ID: 1911678-057AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-082148-111419-C	Batch ID: 49252	RunNo: 65116
Prep Date: 12/10/2019	Analysis Date: 12/11/2019	SeqNo: 2234417 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	33	0.61 25.50 3.475 116 75 125 2.04 20

Sample ID: 1911678-057APS	SampType: PS	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-082148-111419-C	Batch ID: 49252	RunNo: 65116
Prep Date:	Analysis Date: 12/11/2019	SeqNo: 2234418 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	57	0.62 51.32 3.475 104 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911678

02-Apr-20

Client: GHD
Project: Jal 4 Landfarm

Sample ID: MB-49252	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 49252	RunNo: 65261								
Prep Date: 12/10/2019	Analysis Date: 12/18/2019	SeqNo: 2241099	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.30								

Sample ID: LCS-49252	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 49252	RunNo: 65261								
Prep Date: 12/10/2019	Analysis Date: 12/18/2019	SeqNo: 2241101	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	25	0.30	25.00	0	102	80	120			

Sample ID: 1911678-008AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 65261								
Prep Date: 11/21/2019	Analysis Date: 12/18/2019	SeqNo: 2241142	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	120	0.20	25.40	116.6	26.9	75	125			S

Sample ID: 1911678-008AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-082148-111319-C	Batch ID: 48958	RunNo: 65261								
Prep Date: 11/21/2019	Analysis Date: 12/18/2019	SeqNo: 2241143	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	130	0.20	25.41	116.6	59.3	75	125	6.45	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Sample Log-In Check List

Client Name: **GHD**

Work Order Number: **1911678**

RcptNo: 1

Received By: **Isaiah Ortiz**

11/15/2019 9:15:00 AM

IOX

Completed By: **Leah Baca**

11/15/2019 10:05:30 AM

Leah Baca

Reviewed By: *LB*
11/15/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Y6 11/15/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				
2	3.4	Good				
3	0.1	Good				
4	1.0	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 6121 Indian School Rd NE #200
Albuquerque, NM 87110

Phone #: ##

email or Fax#: Christine.mathews@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day

☐ XSta ☐ Rush

Project Nai Jal-4 Landfarm

Project #: 82148

Project Ma Christine Mathews

Sampler: CN

On Ice: ☒ Yes ☐ No

of Coolers: 4



4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Ma	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request
11/13/2019	1130	S	S-082148-111319-CN-C4-V1	3		-013	X BTEX 8021
11/13/2019	1135	S	S-082148-111319-CN-C4-V2	2		-014	X Metals x 6010
11/13/2019	1135	S	S-082148-111319-CN-C4-T1	3		-015	X Chlorides x 300
11/13/2019	1135	S	S-082148-111319-CN-C4-T2	2		-016	X Metals x 6020
11/13/2019	1150	S	S-082148-111319-CN-C5-V1	3		-017	X Metals x 6010
11/13/2019	1200	S	S-082148-111319-CN-C5-V2	2		-018	X Metals x 6020
11/13/2019	1145	S	S-082148-111319-CN-C5-T1	3		-019	X Metals x 6010
11/13/2019	1147	S	S-082148-111319-CN-C5-T2	2		-020	X Metals x 6020
11/13/2019	1210	S	S-082148-111319-CN-C6-V1	3		-021	X Metals x 6010
11/13/2019	1220	S	S-082148-111319-CN-C6-V2	2		-022	X Metals x 6020
11/13/2019	1205	S	S-082148-111319-CN-C6-T1	3		-023	X Metals x 6010
11/13/2019	1207	S	S-082148-111319-CN-C6-T2	2		-024	X Metals x 6020
Date: 11-14-19	Time: 1400	Relinquished by: Christine Mathews	Received by: [Signature]	Date: 11/14/19	Time: 0815	Remarks:	
Date: 11/14	Time: 1900	Relinquished by: Christine Mathews	Received by: [Signature]	Date: 11/14/19	Time: 0815	Remarks:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

$$1.4 - 0.2[CF] = 1.2^{\circ}C$$

$$3.4 \quad | \quad = 3.2^{\circ}C$$

$$0.4 \quad | \quad = 0.2^{\circ}C$$

$$1.0 \quad | \quad = 0.8^{\circ}C$$

Metals

Sb, As, Br, Be, Cd, Cr
Co, Fe, Mn, Pb, Se, Ag, Ti,
U, Zn

Chain-of-Custody Record

Client: GHD

Turn-Around Time: 5 Day

☐ XSta ☐ Rush

Project Nai Jal-4 Landfarm

Project #: 82148

Project Ma Christine Mathews

QA/QC Package: ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC

☐ EDD (Type) _____



4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Ma	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/13/2019	1240	S	S-082148-111319-CN-C7-V1	3		-075
11/13/2019	1255	S	S-082148-111319-CN-C7-V2	2		-076
11/13/2019	1235	S	S-082148-111319-CN-C7-T1	3		-027
11/13/2019	1237	S	S-082148-111319-CN-C8-T2	2	for water 11/14/19	-028
11/13/2019	1345	S	S-082148-111319-CN-C8-V1	3		-029
11/13/2019	1420	S	S-082148-111319-CN-C8-V2	2		-030
11/13/2019	1310	S	S-082148-111319-CN-C8-T1	3		-031
11/13/2019	1312	S	S-082148-111319-CN-C8-T2	2		-032
11/13/2019	1440	S	S-082148-111319-CN-C9-V1	3		-033
11/13/2019	1442	S	S-082148-111319-CN-C9-V2	2		-034
11/13/2019	1453	S	S-082148-111319-CN-C9-T1	3		-035
11/13/2019	1435	S	S-082148-111319-CN-C9-T2	2		-036
Date: 11-14-19	Time: 1400	Relinquished by: <u>Christine Mathews</u>	Relinquished by: <u>Christine Mathews</u>	Date: 11/14/19	Time: 1400	

Chlorides x 300
Mercury x 6000
Nitrates x 6010
Total Cr/As/Pb/DO 8015
BTEX 8021

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

$$1.4 - 0.2 \text{ (cf)} = 1.2^{\circ}\text{C}$$

$$3.4 \text{ } \left| \right. = 3.2^{\circ}\text{C}$$

$$0.4 \text{ } \left| \right. = 0.2^{\circ}\text{C}$$

$$1.0 \text{ } \left| \right. = 0.8^{\circ}\text{C}$$

Metals
Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Mn
Pb, Se, Ag, Ti, W, Zn

1.4 - 0.2 [CF] = 1.2°C	↓ Metals ↓	Sb, As, Ba, Be, Cd, Cr, Co, Fe, Mn, Pb Se, Ag, Ti, U, Zn
3.4 -		
0.4 -		
1.0 -		

Analytical Data 2020



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 10, 2020

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Jal Landfarm

OrderNo.: 2003D30

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 30 sample(s) on 3/31/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T1

Project: Jal Landfarm

Collection Date: 3/26/2020 10:35:00 AM

Lab ID: 2003D30-001

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 1:28:39 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Barium	110	0.20		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Beryllium	0.47	0.30		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Chromium	5.9	0.60		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Copper	1.9	0.80		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Iron	6100	250		mg/Kg	100	4/8/2020 7:59:33 AM	51629
Lead	ND	0.60		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Manganese	60	0.40		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Selenium	ND	5.0		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Silver	0.66	0.50		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Thallium	ND	5.0		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Uranium	ND	10		mg/Kg	2	4/8/2020 8:53:47 AM	51629
Zinc	13	5.0		mg/Kg	2	4/8/2020 8:53:47 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/3/2020 2:36:22 AM	51485
Surr: BFB	98.1	70-130		%Rec	1	4/3/2020 2:36:22 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	22	8.9		mg/Kg	1	4/6/2020 5:47:26 AM	51498
Motor Oil Range Organics (MRO)	57	44		mg/Kg	1	4/6/2020 5:47:26 AM	51498
Surr: DNOP	108	55.1-146		%Rec	1	4/6/2020 5:47:26 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/3/2020 2:36:22 AM	51485
Toluene	ND	0.047		mg/Kg	1	4/3/2020 2:36:22 AM	51485
Ethylbenzene	ND	0.047		mg/Kg	1	4/3/2020 2:36:22 AM	51485
Xylenes, Total	ND	0.094		mg/Kg	1	4/3/2020 2:36:22 AM	51485
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%Rec	1	4/3/2020 2:36:22 AM	51485
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	4/3/2020 2:36:22 AM	51485
Surr: Dibromofluoromethane	95.0	70-130		%Rec	1	4/3/2020 2:36:22 AM	51485
Surr: Toluene-d8	102	70-130		%Rec	1	4/3/2020 2:36:22 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V1

Project: Jal Landfarm

Collection Date: 3/26/2020 10:40:00 AM

Lab ID: 2003D30-002

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 2:05:40 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Arsenic	17	4.9		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Barium	83	0.20		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Beryllium	0.66	0.29		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Chromium	9.3	0.59		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Copper	1.2	0.79		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Iron	9800	250		mg/Kg	100	4/8/2020 8:01:08 AM	51629
Lead	ND	0.59		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Manganese	250	0.39		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Selenium	ND	4.9		mg/Kg	2	4/8/2020 11:27:44 AM	51629
Silver	ND	0.49		mg/Kg	2	4/8/2020 1:22:33 PM	51629
Thallium	ND	4.9		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Uranium	ND	9.8		mg/Kg	2	4/8/2020 9:04:17 AM	51629
Zinc	21	4.9		mg/Kg	2	4/8/2020 9:04:17 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/3/2020 3:05:06 AM	51485
Surr: BFB	99.0	70-130		%Rec	1	4/3/2020 3:05:06 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/4/2020 9:29:13 AM	51498
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2020 9:29:13 AM	51498
Surr: DNOP	73.8	55.1-146		%Rec	1	4/4/2020 9:29:13 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/3/2020 3:05:06 AM	51485
Toluene	ND	0.049		mg/Kg	1	4/3/2020 3:05:06 AM	51485
Ethylbenzene	ND	0.049		mg/Kg	1	4/3/2020 3:05:06 AM	51485
Xylenes, Total	ND	0.099		mg/Kg	1	4/3/2020 3:05:06 AM	51485
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%Rec	1	4/3/2020 3:05:06 AM	51485
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	4/3/2020 3:05:06 AM	51485
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	4/3/2020 3:05:06 AM	51485
Surr: Toluene-d8	106	70-130		%Rec	1	4/3/2020 3:05:06 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T2

Project: Jal Landfarm

Collection Date: 3/26/2020 11:00:00 AM

Lab ID: 2003D30-003

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 2:18:00 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Barium	260	0.20		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Beryllium	0.59	0.30		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Chromium	8.1	0.60		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Copper	3.6	0.80		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Iron	8300	250		mg/Kg	100	4/8/2020 8:02:35 AM	51629
Lead	ND	0.60		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Manganese	72	0.40		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Selenium	ND	5.0		mg/Kg	2	4/8/2020 11:29:18 AM	51629
Silver	ND	0.50		mg/Kg	2	4/8/2020 1:23:55 PM	51629
Thallium	ND	5.0		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Uranium	ND	10		mg/Kg	2	4/8/2020 9:05:52 AM	51629
Zinc	16	5.0		mg/Kg	2	4/8/2020 9:05:52 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/3/2020 3:33:51 AM	51485
Surr: BFB	96.3	70-130		%Rec	1	4/3/2020 3:33:51 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	4/4/2020 9:51:22 AM	51498
Motor Oil Range Organics (MRO)	76	49		mg/Kg	1	4/4/2020 9:51:22 AM	51498
Surr: DNOP	76.3	55.1-146		%Rec	1	4/4/2020 9:51:22 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/3/2020 3:33:51 AM	51485
Toluene	ND	0.050		mg/Kg	1	4/3/2020 3:33:51 AM	51485
Ethylbenzene	ND	0.050		mg/Kg	1	4/3/2020 3:33:51 AM	51485
Xylenes, Total	ND	0.099		mg/Kg	1	4/3/2020 3:33:51 AM	51485
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	4/3/2020 3:33:51 AM	51485
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/3/2020 3:33:51 AM	51485
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/3/2020 3:33:51 AM	51485
Surr: Toluene-d8	103	70-130		%Rec	1	4/3/2020 3:33:51 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V2

Project: Jal Landfarm

Collection Date: 3/26/2020 1:30:00 PM

Lab ID: 2003D30-004

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 2:30:22 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Barium	87	0.20		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Beryllium	0.44	0.30		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Chromium	8.5	0.60		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Copper	2.4	0.80		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Iron	6100	250		mg/Kg	100	4/8/2020 8:04:01 AM	51629
Lead	0.64	0.60		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Manganese	63	0.40		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Selenium	ND	5.0		mg/Kg	2	4/8/2020 11:30:53 AM	51629
Silver	ND	0.50		mg/Kg	2	4/8/2020 1:25:16 PM	51629
Thallium	ND	5.0		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Uranium	ND	10		mg/Kg	2	4/8/2020 9:07:26 AM	51629
Zinc	13	5.0		mg/Kg	2	4/8/2020 9:07:26 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/3/2020 4:02:35 AM	51485
Surr: BFB	99.1	70-130		%Rec	1	4/3/2020 4:02:35 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/4/2020 10:13:17 AM	51498
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2020 10:13:17 AM	51498
Surr: DNOP	83.5	55.1-146		%Rec	1	4/4/2020 10:13:17 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/3/2020 4:02:35 AM	51485
Toluene	ND	0.050		mg/Kg	1	4/3/2020 4:02:35 AM	51485
Ethylbenzene	ND	0.050		mg/Kg	1	4/3/2020 4:02:35 AM	51485
Xylenes, Total	ND	0.10		mg/Kg	1	4/3/2020 4:02:35 AM	51485
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	4/3/2020 4:02:35 AM	51485
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/3/2020 4:02:35 AM	51485
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	4/3/2020 4:02:35 AM	51485
Surr: Toluene-d8	108	70-130		%Rec	1	4/3/2020 4:02:35 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V3

Project: Jal Landfarm

Collection Date: 3/26/2020 1:40:00 PM

Lab ID: 2003D30-005

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 3:07:23 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Arsenic	5.6	4.9		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Barium	55	0.20		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Beryllium	0.44	0.29		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Chromium	5.9	0.59		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Copper	ND	0.78		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Iron	6000	250		mg/Kg	100	4/8/2020 8:05:28 AM	51629
Lead	0.70	0.59		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Manganese	29	0.39		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Selenium	ND	4.9		mg/Kg	2	4/8/2020 11:32:27 AM	51629
Silver	ND	0.49		mg/Kg	2	4/8/2020 1:26:37 PM	51629
Thallium	ND	4.9		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Uranium	ND	9.8		mg/Kg	2	4/8/2020 9:08:59 AM	51629
Zinc	12	4.9		mg/Kg	2	4/8/2020 9:08:59 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/3/2020 4:31:16 AM	51485
Surr: BFB	96.7	70-130		%Rec	1	4/3/2020 4:31:16 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/4/2020 10:35:25 AM	51498
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2020 10:35:25 AM	51498
Surr: DNOP	72.9	55.1-146		%Rec	1	4/4/2020 10:35:25 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/3/2020 4:31:16 AM	51485
Toluene	ND	0.048		mg/Kg	1	4/3/2020 4:31:16 AM	51485
Ethylbenzene	ND	0.048		mg/Kg	1	4/3/2020 4:31:16 AM	51485
Xylenes, Total	ND	0.097		mg/Kg	1	4/3/2020 4:31:16 AM	51485
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%Rec	1	4/3/2020 4:31:16 AM	51485
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	4/3/2020 4:31:16 AM	51485
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	4/3/2020 4:31:16 AM	51485
Surr: Toluene-d8	102	70-130		%Rec	1	4/3/2020 4:31:16 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T3

Project: Jal Landfarm

Collection Date: 3/26/2020 1:45:00 PM

Lab ID: 2003D30-006

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 3:19:43 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Barium	63	0.20		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Beryllium	0.47	0.30		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Chromium	6.6	0.60		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Copper	1.6	0.79		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Iron	6400	250		mg/Kg	100	4/8/2020 8:06:55 AM	51629
Lead	0.93	0.60		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Manganese	54	0.40		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Selenium	ND	5.0		mg/Kg	2	4/8/2020 11:34:01 AM	51629
Silver	ND	0.50		mg/Kg	2	4/8/2020 1:27:52 PM	51629
Thallium	ND	5.0		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Uranium	ND	9.9		mg/Kg	2	4/8/2020 9:10:32 AM	51629
Zinc	15	5.0		mg/Kg	2	4/8/2020 9:10:32 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/3/2020 4:59:55 AM	51485
Surr: BFB	98.8	70-130		%Rec	1	4/3/2020 4:59:55 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	290	92		mg/Kg	10	4/6/2020 12:23:01 PM	51498
Motor Oil Range Organics (MRO)	690	460		mg/Kg	10	4/6/2020 12:23:01 PM	51498
Surr: DNOP	0	55.1-146	S	%Rec	10	4/6/2020 12:23:01 PM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/3/2020 4:59:55 AM	51485
Toluene	ND	0.047		mg/Kg	1	4/3/2020 4:59:55 AM	51485
Ethylbenzene	ND	0.047		mg/Kg	1	4/3/2020 4:59:55 AM	51485
Xylenes, Total	ND	0.094		mg/Kg	1	4/3/2020 4:59:55 AM	51485
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	4/3/2020 4:59:55 AM	51485
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/3/2020 4:59:55 AM	51485
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	4/3/2020 4:59:55 AM	51485
Surr: Toluene-d8	111	70-130		%Rec	1	4/3/2020 4:59:55 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T4

Project: Jal Landfarm

Collection Date: 3/26/2020 1:50:00 PM

Lab ID: 2003D30-007

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 3:32:03 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Barium	66	0.20		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Beryllium	0.45	0.29		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Chromium	5.7	0.59		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Copper	1.3	0.79		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Iron	6000	250		mg/Kg	100	4/8/2020 8:08:23 AM	51629
Lead	ND	0.59		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Manganese	50	0.39		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Selenium	ND	4.9		mg/Kg	2	4/8/2020 11:35:36 AM	51629
Silver	ND	0.49		mg/Kg	2	4/8/2020 1:29:07 PM	51629
Thallium	ND	4.9		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Uranium	ND	9.8		mg/Kg	2	4/8/2020 9:12:05 AM	51629
Zinc	14	4.9		mg/Kg	2	4/8/2020 9:12:05 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/3/2020 5:28:33 AM	51485
Surr: BFB	102	70-130		%Rec	1	4/3/2020 5:28:33 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	52	9.0		mg/Kg	1	4/4/2020 11:19:40 AM	51498
Motor Oil Range Organics (MRO)	120	45		mg/Kg	1	4/4/2020 11:19:40 AM	51498
Surr: DNOP	83.8	55.1-146		%Rec	1	4/4/2020 11:19:40 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/3/2020 5:28:33 AM	51485
Toluene	ND	0.050		mg/Kg	1	4/3/2020 5:28:33 AM	51485
Ethylbenzene	ND	0.050		mg/Kg	1	4/3/2020 5:28:33 AM	51485
Xylenes, Total	ND	0.10		mg/Kg	1	4/3/2020 5:28:33 AM	51485
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	1	4/3/2020 5:28:33 AM	51485
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	4/3/2020 5:28:33 AM	51485
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	4/3/2020 5:28:33 AM	51485
Surr: Toluene-d8	107	70-130		%Rec	1	4/3/2020 5:28:33 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-v4

Project: Jal Landfarm

Collection Date: 3/26/2020 1:50:00 PM

Lab ID: 2003D30-008

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 3:44:23 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Barium	63	0.20		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Beryllium	0.43	0.30		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Chromium	6.5	0.59		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Copper	ND	0.79		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Iron	6100	250		mg/Kg	100	4/8/2020 8:09:50 AM	51629
Lead	ND	0.59		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Manganese	41	0.40		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Selenium	ND	4.9		mg/Kg	2	4/8/2020 11:44:13 AM	51629
Silver	ND	0.49		mg/Kg	2	4/8/2020 1:30:22 PM	51629
Thallium	ND	4.9		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Uranium	ND	9.9		mg/Kg	2	4/8/2020 9:13:39 AM	51629
Zinc	14	4.9		mg/Kg	2	4/8/2020 9:13:39 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/3/2020 5:56:57 AM	51485
Surr: BFB	99.4	70-130		%Rec	1	4/3/2020 5:56:57 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/4/2020 11:41:36 AM	51498
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/4/2020 11:41:36 AM	51498
Surr: DNOP	77.2	55.1-146		%Rec	1	4/4/2020 11:41:36 AM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/3/2020 5:56:57 AM	51485
Toluene	ND	0.050		mg/Kg	1	4/3/2020 5:56:57 AM	51485
Ethylbenzene	ND	0.050		mg/Kg	1	4/3/2020 5:56:57 AM	51485
Xylenes, Total	ND	0.10		mg/Kg	1	4/3/2020 5:56:57 AM	51485
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	4/3/2020 5:56:57 AM	51485
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	4/3/2020 5:56:57 AM	51485
Surr: Dibromofluoromethane	97.5	70-130		%Rec	1	4/3/2020 5:56:57 AM	51485
Surr: Toluene-d8	106	70-130		%Rec	1	4/3/2020 5:56:57 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T5

Project: Jal Landfarm

Collection Date: 3/26/2020 2:05:00 PM

Lab ID: 2003D30-009

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 3:56:44 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.8		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Arsenic	ND	4.8		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Barium	45	0.19		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Beryllium	0.38	0.29		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Cadmium	ND	0.19		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Chromium	6.2	0.58		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Copper	3.5	0.77		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Iron	5000	240		mg/Kg	100	4/8/2020 8:11:17 AM	51629
Lead	3.0	0.58		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Manganese	67	0.39		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Selenium	ND	4.8		mg/Kg	2	4/8/2020 11:45:49 AM	51629
Silver	ND	0.48		mg/Kg	2	4/8/2020 1:31:43 PM	51629
Thallium	ND	4.8		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Uranium	ND	9.7		mg/Kg	2	4/8/2020 9:15:13 AM	51629
Zinc	21	4.8		mg/Kg	2	4/8/2020 9:15:13 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/3/2020 6:25:30 AM	51485
Surr: BFB	98.1	70-130		%Rec	1	4/3/2020 6:25:30 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	4/4/2020 12:03:45 PM	51498
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	4/4/2020 12:03:45 PM	51498
Surr: DNOP	79.1	55.1-146		%Rec	1	4/4/2020 12:03:45 PM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/3/2020 6:25:30 AM	51485
Toluene	ND	0.048		mg/Kg	1	4/3/2020 6:25:30 AM	51485
Ethylbenzene	ND	0.048		mg/Kg	1	4/3/2020 6:25:30 AM	51485
Xylenes, Total	ND	0.097		mg/Kg	1	4/3/2020 6:25:30 AM	51485
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	4/3/2020 6:25:30 AM	51485
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/3/2020 6:25:30 AM	51485
Surr: Dibromofluoromethane	95.0	70-130		%Rec	1	4/3/2020 6:25:30 AM	51485
Surr: Toluene-d8	100	70-130		%Rec	1	4/3/2020 6:25:30 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V5

Project: Jal Landfarm

Collection Date: 3/26/2020 2:00:00 PM

Lab ID: 2003D30-010

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/3/2020 4:09:05 PM	51532
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Barium	51	0.20		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Beryllium	0.42	0.30		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Cadmium	ND	0.20		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Chromium	8.1	0.60		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Copper	3.0	0.80		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Iron	5900	250		mg/Kg	100	4/8/2020 8:12:44 AM	51629
Lead	3.8	0.60		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Manganese	53	0.40		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Selenium	ND	5.0		mg/Kg	2	4/8/2020 11:47:22 AM	51629
Silver	ND	0.50		mg/Kg	2	4/8/2020 1:32:58 PM	51629
Thallium	ND	5.0		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Uranium	ND	10		mg/Kg	2	4/8/2020 9:16:47 AM	51629
Zinc	24	5.0		mg/Kg	2	4/8/2020 9:16:47 AM	51629
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/3/2020 6:53:59 AM	51485
Surr: BFB	96.7	70-130		%Rec	1	4/3/2020 6:53:59 AM	51485
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2020 12:25:49 PM	51498
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2020 12:25:49 PM	51498
Surr: DNOP	72.7	55.1-146		%Rec	1	4/4/2020 12:25:49 PM	51498
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/3/2020 6:53:59 AM	51485
Toluene	ND	0.047		mg/Kg	1	4/3/2020 6:53:59 AM	51485
Ethylbenzene	ND	0.047		mg/Kg	1	4/3/2020 6:53:59 AM	51485
Xylenes, Total	ND	0.094		mg/Kg	1	4/3/2020 6:53:59 AM	51485
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%Rec	1	4/3/2020 6:53:59 AM	51485
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/3/2020 6:53:59 AM	51485
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	4/3/2020 6:53:59 AM	51485
Surr: Toluene-d8	103	70-130		%Rec	1	4/3/2020 6:53:59 AM	51485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T6

Project: Jal Landfarm

Collection Date: 3/26/2020 2:10:00 PM

Lab ID: 2003D30-011

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 11:51:40 AM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.1		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Arsenic	ND	5.1		mg/Kg	2	4/8/2020 9:18:20 AM	51507
Barium	100	0.20		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Beryllium	0.36	0.31		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Chromium	5.6	0.61		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Copper	2.1	0.82		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Iron	5800	260		mg/Kg	100	4/6/2020 9:53:47 AM	51507
Lead	0.88	0.61		mg/Kg	2	4/8/2020 9:18:20 AM	51507
Manganese	58	0.41		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Selenium	ND	5.1		mg/Kg	2	4/8/2020 10:35:04 AM	51507
Silver	ND	0.51		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Thallium	ND	5.1		mg/Kg	2	4/6/2020 2:26:29 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:18:20 AM	51507
Zinc	13	5.1		mg/Kg	2	4/6/2020 2:26:29 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2020 9:28:31 PM	51487
Surr: BFB	95.8	70-130		%Rec	1	4/5/2020 9:28:31 PM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/5/2020 6:15:07 PM	51523
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/5/2020 6:15:07 PM	51523
Surr: DNOP	118	55.1-146		%Rec	1	4/5/2020 6:15:07 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/5/2020 9:28:31 PM	51487
Toluene	ND	0.050		mg/Kg	1	4/5/2020 9:28:31 PM	51487
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2020 9:28:31 PM	51487
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2020 9:28:31 PM	51487
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	4/5/2020 9:28:31 PM	51487
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	4/5/2020 9:28:31 PM	51487
Surr: Dibromofluoromethane	93.0	70-130		%Rec	1	4/5/2020 9:28:31 PM	51487
Surr: Toluene-d8	94.2	70-130		%Rec	1	4/5/2020 9:28:31 PM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V6

Project: Jal Landfarm

Collection Date: 3/26/2020 2:15:00 PM

Lab ID: 2003D30-012

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	4/4/2020 12:28:41 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.8		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Arsenic	ND	4.8		mg/Kg	2	4/8/2020 9:26:09 AM	51507
Barium	130	0.19		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Beryllium	0.31	0.29		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Cadmium	ND	0.19		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Chromium	5.2	0.58		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Copper	1.4	0.77		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Iron	4700	240		mg/Kg	100	4/6/2020 9:55:52 AM	51507
Lead	0.90	0.58		mg/Kg	2	4/8/2020 9:26:09 AM	51507
Manganese	37	0.39		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Selenium	ND	4.8		mg/Kg	2	4/8/2020 10:36:39 AM	51507
Silver	0.58	0.48		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Thallium	ND	4.8		mg/Kg	2	4/6/2020 2:28:13 PM	51507
Uranium	ND	9.7		mg/Kg	2	4/8/2020 9:26:09 AM	51507
Zinc	10	4.8		mg/Kg	2	4/6/2020 2:28:13 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2020 10:57:49 PM	51487
Surr: BFB	99.3	70-130		%Rec	1	4/5/2020 10:57:49 PM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/4/2020 10:01:12 AM	51523
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/4/2020 10:01:12 AM	51523
Surr: DNOP	74.0	55.1-146		%Rec	1	4/4/2020 10:01:12 AM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/5/2020 10:57:49 PM	51487
Toluene	ND	0.049		mg/Kg	1	4/5/2020 10:57:49 PM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2020 10:57:49 PM	51487
Xylenes, Total	ND	0.097		mg/Kg	1	4/5/2020 10:57:49 PM	51487
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%Rec	1	4/5/2020 10:57:49 PM	51487
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/5/2020 10:57:49 PM	51487
Surr: Dibromofluoromethane	91.8	70-130		%Rec	1	4/5/2020 10:57:49 PM	51487
Surr: Toluene-d8	98.3	70-130		%Rec	1	4/5/2020 10:57:49 PM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T7

Project: Jal Landfarm

Collection Date: 3/26/2020 2:25:00 PM

Lab ID: 2003D30-013

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 1:30:26 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.1		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Arsenic	ND	5.1		mg/Kg	2	4/8/2020 9:27:45 AM	51507
Barium	51	0.20		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Beryllium	ND	0.31		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Chromium	4.9	0.61		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Copper	2.2	0.82		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Iron	4900	260		mg/Kg	100	4/6/2020 9:57:57 AM	51507
Lead	0.98	0.61		mg/Kg	2	4/8/2020 9:27:45 AM	51507
Manganese	61	0.41		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Selenium	ND	5.1		mg/Kg	2	4/8/2020 10:38:12 AM	51507
Silver	ND	0.51		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Thallium	ND	5.1		mg/Kg	2	4/6/2020 2:29:54 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:27:45 AM	51507
Zinc	12	5.1		mg/Kg	2	4/6/2020 2:29:54 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 2:26:11 AM	51487
Surr: BFB	97.3	70-130		%Rec	1	4/6/2020 2:26:11 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/4/2020 10:25:23 AM	51523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/4/2020 10:25:23 AM	51523
Surr: DNOP	73.6	55.1-146		%Rec	1	4/4/2020 10:25:23 AM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 2:26:11 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 2:26:11 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 2:26:11 AM	51487
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2020 2:26:11 AM	51487
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	4/6/2020 2:26:11 AM	51487
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	4/6/2020 2:26:11 AM	51487
Surr: Dibromofluoromethane	89.8	70-130		%Rec	1	4/6/2020 2:26:11 AM	51487
Surr: Toluene-d8	97.5	70-130		%Rec	1	4/6/2020 2:26:11 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V7

Project: Jal Landfarm

Collection Date: 3/26/2020 2:30:00 PM

Lab ID: 2003D30-014

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 1:42:47 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.1		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Arsenic	ND	5.1		mg/Kg	2	4/8/2020 9:29:19 AM	51507
Barium	75	0.20		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Beryllium	0.36	0.30		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Chromium	6.2	0.61		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Copper	1.2	0.81		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Iron	5700	250		mg/Kg	100	4/6/2020 10:14:38 AM	51507
Lead	0.84	0.61		mg/Kg	2	4/8/2020 9:29:19 AM	51507
Manganese	48	0.40		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Selenium	ND	5.1		mg/Kg	2	4/8/2020 10:39:45 AM	51507
Silver	ND	0.51		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Thallium	ND	5.1		mg/Kg	2	4/6/2020 2:31:36 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:29:19 AM	51507
Zinc	13	5.1		mg/Kg	2	4/6/2020 2:31:36 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 2:55:52 AM	51487
Surr: BFB	100	70-130		%Rec	1	4/6/2020 2:55:52 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2020 10:49:33 AM	51523
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2020 10:49:33 AM	51523
Surr: DNOP	66.2	55.1-146		%Rec	1	4/4/2020 10:49:33 AM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 2:55:52 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 2:55:52 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 2:55:52 AM	51487
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2020 2:55:52 AM	51487
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	4/6/2020 2:55:52 AM	51487
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/6/2020 2:55:52 AM	51487
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	4/6/2020 2:55:52 AM	51487
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/6/2020 2:55:52 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T8

Project: Jal Landfarm

Collection Date: 3/26/2020 2:40:00 PM

Lab ID: 2003D30-015

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 1:55:07 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.8		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Arsenic	ND	4.8		mg/Kg	2	4/8/2020 9:30:52 AM	51507
Barium	99	0.19		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Beryllium	0.39	0.29		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Cadmium	ND	0.19		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Chromium	5.8	0.58		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Copper	1.7	0.77		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Iron	6000	240		mg/Kg	100	4/6/2020 10:16:45 AM	51507
Lead	0.68	0.58		mg/Kg	2	4/8/2020 9:30:52 AM	51507
Manganese	54	0.39		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Selenium	ND	4.8		mg/Kg	2	4/8/2020 10:41:19 AM	51507
Silver	ND	0.48		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Thallium	ND	4.8		mg/Kg	2	4/6/2020 2:33:18 PM	51507
Uranium	ND	9.7		mg/Kg	2	4/8/2020 9:30:52 AM	51507
Zinc	13	4.8		mg/Kg	2	4/6/2020 2:33:18 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 3:25:29 AM	51487
Surr: BFB	96.5	70-130		%Rec	1	4/6/2020 3:25:29 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	440	99		mg/Kg	10	4/5/2020 7:29:15 PM	51523
Motor Oil Range Organics (MRO)	510	490		mg/Kg	10	4/5/2020 7:29:15 PM	51523
Surr: DNOP	0	55.1-146	S	%Rec	10	4/5/2020 7:29:15 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/6/2020 3:25:29 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 3:25:29 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 3:25:29 AM	51487
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2020 3:25:29 AM	51487
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%Rec	1	4/6/2020 3:25:29 AM	51487
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	4/6/2020 3:25:29 AM	51487
Surr: Dibromofluoromethane	91.2	70-130		%Rec	1	4/6/2020 3:25:29 AM	51487
Surr: Toluene-d8	94.7	70-130		%Rec	1	4/6/2020 3:25:29 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V8

Project: Jal Landfarm

Collection Date: 3/26/2020 2:50:00 PM

Lab ID: 2003D30-016

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 2:07:29 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 9:32:26 AM	51507
Barium	110	0.19		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Beryllium	0.46	0.29		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Cadmium	ND	0.19		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Chromium	7.2	0.58		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Copper	ND	0.78		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Iron	7600	240		mg/Kg	100	4/6/2020 10:18:50 AM	51507
Lead	ND	0.58		mg/Kg	2	4/8/2020 9:32:26 AM	51507
Manganese	46	0.39		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Selenium	ND	4.9		mg/Kg	2	4/8/2020 10:42:53 AM	51507
Silver	ND	0.49		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Thallium	ND	4.9		mg/Kg	2	4/6/2020 2:35:02 PM	51507
Uranium	ND	9.7		mg/Kg	2	4/8/2020 9:32:26 AM	51507
Zinc	14	4.9		mg/Kg	2	4/6/2020 2:35:02 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 3:55:06 AM	51487
Surr: BFB	99.2	70-130		%Rec	1	4/6/2020 3:55:06 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/4/2020 11:38:12 AM	51523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/4/2020 11:38:12 AM	51523
Surr: DNOP	66.0	55.1-146		%Rec	1	4/4/2020 11:38:12 AM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/6/2020 3:55:06 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 3:55:06 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 3:55:06 AM	51487
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2020 3:55:06 AM	51487
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	4/6/2020 3:55:06 AM	51487
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	4/6/2020 3:55:06 AM	51487
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	4/6/2020 3:55:06 AM	51487
Surr: Toluene-d8	96.7	70-130		%Rec	1	4/6/2020 3:55:06 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T9

Project: Jal Landfarm

Collection Date: 3/26/2020 4:25:00 PM

Lab ID: 2003D30-017

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 2:19:49 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:34:01 AM	51507
Barium	100	0.20		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Beryllium	0.31	0.30		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Chromium	5.1	0.60		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Copper	2.3	0.80		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Iron	5600	250		mg/Kg	100	4/6/2020 10:20:43 AM	51507
Lead	0.64	0.60		mg/Kg	2	4/8/2020 9:34:01 AM	51507
Manganese	59	0.40		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/8/2020 10:44:27 AM	51507
Silver	0.61	0.50		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 2:36:43 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:34:01 AM	51507
Zinc	14	5.0		mg/Kg	2	4/6/2020 2:36:43 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 4:24:40 AM	51487
Surr: BFB	96.7	70-130		%Rec	1	4/6/2020 4:24:40 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2020 12:02:37 PM	51523
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2020 12:02:37 PM	51523
Surr: DNOP	111	55.1-146		%Rec	1	4/4/2020 12:02:37 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 4:24:40 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 4:24:40 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 4:24:40 AM	51487
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2020 4:24:40 AM	51487
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%Rec	1	4/6/2020 4:24:40 AM	51487
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	4/6/2020 4:24:40 AM	51487
Surr: Dibromofluoromethane	93.4	70-130		%Rec	1	4/6/2020 4:24:40 AM	51487
Surr: Toluene-d8	94.2	70-130		%Rec	1	4/6/2020 4:24:40 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V9

Project: Jal Landfarm

Collection Date: 3/26/2020 4:35:00 PM

Lab ID: 2003D30-018

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 2:32:09 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 9:35:35 AM	51507
Barium	94	0.19		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Beryllium	0.50	0.29		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Cadmium	ND	0.19		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Chromium	8.1	0.58		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Copper	ND	0.78		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Iron	8300	240		mg/Kg	100	4/6/2020 10:22:48 AM	51507
Lead	ND	0.58		mg/Kg	2	4/8/2020 9:35:35 AM	51507
Manganese	37	0.39		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Selenium	ND	4.9		mg/Kg	2	4/8/2020 10:46:02 AM	51507
Silver	ND	0.49		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Thallium	ND	4.9		mg/Kg	2	4/6/2020 2:38:25 PM	51507
Uranium	ND	9.7		mg/Kg	2	4/8/2020 9:35:35 AM	51507
Zinc	17	4.9		mg/Kg	2	4/6/2020 2:38:25 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 4:53:27 AM	51487
Surr: BFB	98.7	70-130		%Rec	1	4/6/2020 4:53:27 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2020 12:26:57 PM	51523
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2020 12:26:57 PM	51523
Surr: DNOP	93.1	55.1-146		%Rec	1	4/4/2020 12:26:57 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/6/2020 4:53:27 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 4:53:27 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 4:53:27 AM	51487
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2020 4:53:27 AM	51487
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	4/6/2020 4:53:27 AM	51487
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/6/2020 4:53:27 AM	51487
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	4/6/2020 4:53:27 AM	51487
Surr: Toluene-d8	101	70-130		%Rec	1	4/6/2020 4:53:27 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T10

Project: Jal Landfarm

Collection Date: 3/26/2020 2:10:00 PM

Lab ID: 2003D30-019

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 2:44:30 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:37:09 AM	51507
Barium	56	0.20		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Beryllium	0.30	0.30		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Chromium	5.2	0.60		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Copper	1.7	0.80		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Iron	5400	250		mg/Kg	100	4/6/2020 10:24:35 AM	51507
Lead	1.0	0.60		mg/Kg	2	4/8/2020 9:37:09 AM	51507
Manganese	43	0.40		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/8/2020 10:47:36 AM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 2:40:06 PM	51507
Uranium	ND	9.9		mg/Kg	2	4/8/2020 9:37:09 AM	51507
Zinc	11	5.0		mg/Kg	2	4/6/2020 2:40:06 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2020 5:22:48 AM	51487
Surr: BFB	101	70-130		%Rec	1	4/6/2020 5:22:48 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	28	9.7		mg/Kg	1	4/4/2020 12:51:27 PM	51523
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	4/4/2020 12:51:27 PM	51523
Surr: DNOP	114	55.1-146		%Rec	1	4/4/2020 12:51:27 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 5:22:48 AM	51487
Toluene	ND	0.047		mg/Kg	1	4/6/2020 5:22:48 AM	51487
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2020 5:22:48 AM	51487
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2020 5:22:48 AM	51487
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	4/6/2020 5:22:48 AM	51487
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/6/2020 5:22:48 AM	51487
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	4/6/2020 5:22:48 AM	51487
Surr: Toluene-d8	101	70-130		%Rec	1	4/6/2020 5:22:48 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V10

Project: Jal Landfarm

Collection Date: 3/26/2020 2:15:00 PM

Lab ID: 2003D30-020

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 2:56:52 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.2		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Arsenic	ND	5.2		mg/Kg	2	4/8/2020 9:38:43 AM	51507
Barium	130	0.21		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Beryllium	0.33	0.31		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Cadmium	ND	0.21		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Chromium	5.4	0.62		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Copper	2.3	0.83		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Iron	5400	260		mg/Kg	100	4/6/2020 10:26:40 AM	51507
Lead	ND	0.62		mg/Kg	2	4/8/2020 9:38:43 AM	51507
Manganese	49	0.41		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Selenium	ND	5.2		mg/Kg	2	4/8/2020 10:59:03 AM	51507
Silver	ND	0.52		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Thallium	ND	5.2		mg/Kg	2	4/6/2020 2:41:48 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:38:43 AM	51507
Zinc	12	5.2		mg/Kg	2	4/6/2020 2:41:48 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 5:51:59 AM	51487
Surr: BFB	100	70-130		%Rec	1	4/6/2020 5:51:59 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/4/2020 2:05:08 PM	51523
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2020 2:05:08 PM	51523
Surr: DNOP	85.2	55.1-146		%Rec	1	4/4/2020 2:05:08 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 5:51:59 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 5:51:59 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 5:51:59 AM	51487
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2020 5:51:59 AM	51487
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%Rec	1	4/6/2020 5:51:59 AM	51487
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	4/6/2020 5:51:59 AM	51487
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	4/6/2020 5:51:59 AM	51487
Surr: Toluene-d8	98.9	70-130		%Rec	1	4/6/2020 5:51:59 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T11

Project: Jal Landfarm

Collection Date: 3/26/2020 3:35:00 PM

Lab ID: 2003D30-021

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 3:33:55 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 9:40:18 AM	51507
Barium	100	0.20		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Beryllium	0.34	0.30		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Chromium	5.6	0.60		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Copper	2.0	0.80		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Iron	6300	250		mg/Kg	100	4/6/2020 10:28:45 AM	51507
Lead	1.1	0.60		mg/Kg	2	4/8/2020 9:40:18 AM	51507
Manganese	60	0.40		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 2:51:09 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:40:18 AM	51507
Zinc	13	5.0		mg/Kg	2	4/6/2020 2:51:09 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2020 6:21:17 AM	51487
Surr: BFB	97.4	70-130		%Rec	1	4/6/2020 6:21:17 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/4/2020 2:29:58 PM	51523
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2020 2:29:58 PM	51523
Surr: DNOP	82.4	55.1-146		%Rec	1	4/4/2020 2:29:58 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 6:21:17 AM	51487
Toluene	ND	0.047		mg/Kg	1	4/6/2020 6:21:17 AM	51487
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2020 6:21:17 AM	51487
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2020 6:21:17 AM	51487
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	4/6/2020 6:21:17 AM	51487
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	4/6/2020 6:21:17 AM	51487
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/6/2020 6:21:17 AM	51487
Surr: Toluene-d8	99.9	70-130		%Rec	1	4/6/2020 6:21:17 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V11

Project: Jal Landfarm

Collection Date: 3/26/2020 3:40:00 PM

Lab ID: 2003D30-022

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 3:46:16 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 11:00:38 AM	51507
Barium	80	0.20		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Beryllium	0.42	0.29		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Chromium	7.1	0.59		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Copper	ND	0.79		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Iron	7100	250		mg/Kg	100	4/6/2020 10:30:50 AM	51507
Lead	0.64	0.59		mg/Kg	2	4/8/2020 9:48:53 AM	51507
Manganese	34	0.39		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Selenium	ND	4.9		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Silver	ND	0.49		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Thallium	ND	4.9		mg/Kg	2	4/6/2020 2:52:52 PM	51507
Uranium	ND	9.8		mg/Kg	2	4/8/2020 9:48:53 AM	51507
Zinc	14	4.9		mg/Kg	2	4/6/2020 2:52:52 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2020 6:50:36 AM	51487
Surr: BFB	99.6	70-130		%Rec	1	4/6/2020 6:50:36 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	4/4/2020 2:48:06 PM	51523
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/4/2020 2:48:06 PM	51523
Surr: DNOP	86.1	55.1-146		%Rec	1	4/4/2020 2:48:06 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 6:50:36 AM	51487
Toluene	ND	0.048		mg/Kg	1	4/6/2020 6:50:36 AM	51487
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2020 6:50:36 AM	51487
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2020 6:50:36 AM	51487
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	4/6/2020 6:50:36 AM	51487
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	4/6/2020 6:50:36 AM	51487
Surr: Dibromofluoromethane	97.1	70-130		%Rec	1	4/6/2020 6:50:36 AM	51487
Surr: Toluene-d8	99.1	70-130		%Rec	1	4/6/2020 6:50:36 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T12

Project: Jal Landfarm

Collection Date: 3/26/2020 3:20:00 PM

Lab ID: 2003D30-023

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 3:58:36 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	4.9		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Arsenic	ND	4.9		mg/Kg	2	4/8/2020 11:02:14 AM	51507
Barium	88	0.20		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Beryllium	0.42	0.29		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Chromium	8.1	0.59		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Copper	28	0.79		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Iron	8300	250		mg/Kg	100	4/6/2020 10:32:55 AM	51507
Lead	1.4	0.59		mg/Kg	2	4/8/2020 9:50:28 AM	51507
Manganese	62	0.39		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Selenium	ND	4.9		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Silver	ND	0.49		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Thallium	ND	4.9		mg/Kg	2	4/6/2020 2:54:33 PM	51507
Uranium	ND	9.8		mg/Kg	2	4/8/2020 9:50:28 AM	51507
Zinc	16	4.9		mg/Kg	2	4/6/2020 2:54:33 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 7:19:55 AM	51487
Surr: BFB	98.5	70-130		%Rec	1	4/6/2020 7:19:55 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	30	9.1		mg/Kg	1	4/5/2020 7:53:55 PM	51523
Motor Oil Range Organics (MRO)	90	45		mg/Kg	1	4/5/2020 7:53:55 PM	51523
Surr: DNOP	106	55.1-146		%Rec	1	4/5/2020 7:53:55 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/6/2020 7:19:55 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 7:19:55 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 7:19:55 AM	51487
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2020 7:19:55 AM	51487
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	4/6/2020 7:19:55 AM	51487
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	4/6/2020 7:19:55 AM	51487
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	4/6/2020 7:19:55 AM	51487
Surr: Toluene-d8	99.2	70-130		%Rec	1	4/6/2020 7:19:55 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V12

Project: Jal Landfarm

Collection Date: 3/26/2020 3:25:00 PM

Lab ID: 2003D30-024

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 4:10:57 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Arsenic	12	5.0		mg/Kg	2	4/8/2020 11:03:49 AM	51507
Barium	60	0.20		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Beryllium	0.69	0.30		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Chromium	9.9	0.60		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Copper	2.6	0.80		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Iron	12000	250		mg/Kg	100	4/6/2020 10:46:34 AM	51507
Lead	ND	0.60		mg/Kg	2	4/8/2020 9:52:03 AM	51507
Manganese	130	0.40		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 2:56:15 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:52:03 AM	51507
Zinc	23	5.0		mg/Kg	2	4/6/2020 2:56:15 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2020 7:49:00 AM	51487
Surr: BFB	99.0	70-130		%Rec	1	4/6/2020 7:49:00 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/4/2020 4:04:59 PM	51523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/4/2020 4:04:59 PM	51523
Surr: DNOP	76.9	55.1-146		%Rec	1	4/4/2020 4:04:59 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 7:49:00 AM	51487
Toluene	ND	0.048		mg/Kg	1	4/6/2020 7:49:00 AM	51487
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2020 7:49:00 AM	51487
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2020 7:49:00 AM	51487
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	4/6/2020 7:49:00 AM	51487
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	4/6/2020 7:49:00 AM	51487
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	4/6/2020 7:49:00 AM	51487
Surr: Toluene-d8	101	70-130		%Rec	1	4/6/2020 7:49:00 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T13

Project: Jal Landfarm

Collection Date: 3/26/2020 3:05:00 PM

Lab ID: 2003D30-025

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 4:23:17 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.1		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Arsenic	ND	5.1		mg/Kg	2	4/8/2020 11:09:54 AM	51507
Barium	84	0.20		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Beryllium	0.39	0.30		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Chromium	6.3	0.61		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Copper	2.8	0.81		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Iron	6700	250		mg/Kg	100	4/6/2020 10:48:24 AM	51507
Lead	ND	0.61		mg/Kg	2	4/8/2020 9:58:20 AM	51507
Manganese	71	0.41		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Selenium	ND	5.1		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Silver	ND	0.51		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Thallium	ND	5.1		mg/Kg	2	4/6/2020 3:03:06 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:58:20 AM	51507
Zinc	13	5.1		mg/Kg	2	4/6/2020 3:03:06 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/6/2020 8:18:26 AM	51487
Surr: BFB	102	70-130		%Rec	1	4/6/2020 8:18:26 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	25	9.4		mg/Kg	1	4/4/2020 4:53:47 PM	51523
Motor Oil Range Organics (MRO)	81	47		mg/Kg	1	4/4/2020 4:53:47 PM	51523
Surr: DNOP	95.7	55.1-146		%Rec	1	4/4/2020 4:53:47 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/6/2020 8:18:26 AM	51487
Toluene	ND	0.046		mg/Kg	1	4/6/2020 8:18:26 AM	51487
Ethylbenzene	ND	0.046		mg/Kg	1	4/6/2020 8:18:26 AM	51487
Xylenes, Total	ND	0.092		mg/Kg	1	4/6/2020 8:18:26 AM	51487
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%Rec	1	4/6/2020 8:18:26 AM	51487
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	4/6/2020 8:18:26 AM	51487
Surr: Dibromofluoromethane	93.3	70-130		%Rec	1	4/6/2020 8:18:26 AM	51487
Surr: Toluene-d8	101	70-130		%Rec	1	4/6/2020 8:18:26 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V13

Project: Jal Landfarm

Collection Date: 3/26/2020 3:00:00 PM

Lab ID: 2003D30-026

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	83	60		mg/Kg	20	4/4/2020 4:35:38 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.1		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Arsenic	5.8	5.1		mg/Kg	2	4/8/2020 11:11:21 AM	51507
Barium	75	0.20		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Beryllium	0.65	0.31		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Chromium	10	0.61		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Copper	1.5	0.81		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Iron	11000	250		mg/Kg	100	4/6/2020 10:50:29 AM	51507
Lead	ND	0.61		mg/Kg	2	4/8/2020 9:59:54 AM	51507
Manganese	77	0.41		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Selenium	ND	5.1		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Silver	ND	0.51		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Thallium	ND	5.1		mg/Kg	2	4/6/2020 3:04:49 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 9:59:54 AM	51507
Zinc	23	5.1		mg/Kg	2	4/6/2020 3:04:49 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2020 8:47:58 AM	51487
Surr: BFB	99.2	70-130		%Rec	1	4/6/2020 8:47:58 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/4/2020 6:07:21 PM	51523
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2020 6:07:21 PM	51523
Surr: DNOP	97.4	55.1-146		%Rec	1	4/4/2020 6:07:21 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/6/2020 8:47:58 AM	51487
Toluene	ND	0.050		mg/Kg	1	4/6/2020 8:47:58 AM	51487
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2020 8:47:58 AM	51487
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2020 8:47:58 AM	51487
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	1	4/6/2020 8:47:58 AM	51487
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	4/6/2020 8:47:58 AM	51487
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	4/6/2020 8:47:58 AM	51487
Surr: Toluene-d8	97.9	70-130		%Rec	1	4/6/2020 8:47:58 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T14

Project: Jal Landfarm

Collection Date: 3/26/2020 3:10:00 PM

Lab ID: 2003D30-027

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 4:47:59 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 11:12:52 AM	51507
Barium	210	0.20		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Beryllium	0.33	0.30		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Chromium	4.6	0.60		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Copper	2.0	0.80		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Iron	4500	250		mg/Kg	100	4/6/2020 10:52:16 AM	51507
Lead	ND	0.60		mg/Kg	2	4/8/2020 10:01:28 AM	51507
Manganese	52	0.40		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Silver	1.5	0.50		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 3:06:31 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 10:01:28 AM	51507
Zinc	11	5.0		mg/Kg	2	4/6/2020 3:06:31 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2020 9:17:20 AM	51487
Surr: BFB	99.0	70-130		%Rec	1	4/6/2020 9:17:20 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	11	8.8		mg/Kg	1	4/4/2020 6:31:54 PM	51523
Motor Oil Range Organics (MRO)	50	44		mg/Kg	1	4/4/2020 6:31:54 PM	51523
Surr: DNOP	108	55.1-146		%Rec	1	4/4/2020 6:31:54 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/6/2020 9:17:20 AM	51487
Toluene	ND	0.047		mg/Kg	1	4/6/2020 9:17:20 AM	51487
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2020 9:17:20 AM	51487
Xylenes, Total	ND	0.093		mg/Kg	1	4/6/2020 9:17:20 AM	51487
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	4/6/2020 9:17:20 AM	51487
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	4/6/2020 9:17:20 AM	51487
Surr: Dibromofluoromethane	98.0	70-130		%Rec	1	4/6/2020 9:17:20 AM	51487
Surr: Toluene-d8	99.3	70-130		%Rec	1	4/6/2020 9:17:20 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V14

Project: Jal Landfarm

Collection Date: 3/26/2020 3:15:00 PM

Lab ID: 2003D30-028

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 5:00:19 PM	51558
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 11:21:26 AM	51507
Barium	63	0.20		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Beryllium	0.39	0.30		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Chromium	7.7	0.60		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Copper	ND	0.80		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Iron	7700	250		mg/Kg	100	4/6/2020 10:54:21 AM	51507
Lead	ND	0.60		mg/Kg	2	4/8/2020 10:03:02 AM	51507
Manganese	40	0.40		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/8/2020 10:03:02 AM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 3:15:52 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 10:03:02 AM	51507
Zinc	16	5.0		mg/Kg	2	4/6/2020 3:15:52 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 9:46:25 AM	51487
Surr: BFB	98.6	70-130		%Rec	1	4/6/2020 9:46:25 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/4/2020 7:45:36 PM	51523
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/4/2020 7:45:36 PM	51523
Surr: DNOP	84.7	55.1-146		%Rec	1	4/4/2020 7:45:36 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 9:46:25 AM	51487
Toluene	ND	0.049		mg/Kg	1	4/6/2020 9:46:25 AM	51487
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 9:46:25 AM	51487
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2020 9:46:25 AM	51487
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%Rec	1	4/6/2020 9:46:25 AM	51487
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/6/2020 9:46:25 AM	51487
Surr: Dibromofluoromethane	92.9	70-130		%Rec	1	4/6/2020 9:46:25 AM	51487
Surr: Toluene-d8	99.8	70-130		%Rec	1	4/6/2020 9:46:25 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-T15

Project: Jal Landfarm

Collection Date: 3/26/2020 4:00:00 PM

Lab ID: 2003D30-029

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 7:53:12 PM	51561
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 11:23:01 AM	51507
Barium	210	0.20		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Beryllium	0.44	0.30		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Chromium	19	0.60		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Copper	230	0.79		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Iron	17000	250		mg/Kg	100	4/6/2020 10:56:08 AM	51507
Lead	3.9	0.60		mg/Kg	2	4/8/2020 10:10:53 AM	51507
Manganese	130	0.40		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/8/2020 10:10:53 AM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 3:17:35 PM	51507
Uranium	ND	9.9		mg/Kg	2	4/8/2020 10:10:53 AM	51507
Zinc	35	5.0		mg/Kg	2	4/6/2020 3:17:35 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2020 10:15:58 AM	51487
Surr: BFB	97.0	70-130		%Rec	1	4/6/2020 10:15:58 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	180	9.2		mg/Kg	1	4/5/2020 8:18:26 PM	51523
Motor Oil Range Organics (MRO)	310	46		mg/Kg	1	4/5/2020 8:18:26 PM	51523
Surr: DNOP	120	55.1-146		%Rec	1	4/5/2020 8:18:26 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/6/2020 10:15:58 AM	51487
Toluene	ND	0.047		mg/Kg	1	4/6/2020 10:15:58 AM	51487
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2020 10:15:58 AM	51487
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2020 10:15:58 AM	51487
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	4/6/2020 10:15:58 AM	51487
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	4/6/2020 10:15:58 AM	51487
Surr: Dibromofluoromethane	94.3	70-130		%Rec	1	4/6/2020 10:15:58 AM	51487
Surr: Toluene-d8	97.4	70-130		%Rec	1	4/6/2020 10:15:58 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003D30

Date Reported: 6/10/2020

CLIENT: GHD

Client Sample ID: S-11208903-032620-CN-V15

Project: Jal Landfarm

Collection Date: 3/26/2020 4:05:00 PM

Lab ID: 2003D30-030

Matrix: SOIL

Received Date: 3/31/2020 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/4/2020 8:54:56 PM	51561
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Antimony	ND	5.0		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Arsenic	ND	5.0		mg/Kg	2	4/8/2020 11:24:35 AM	51507
Barium	67	0.20		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Beryllium	0.37	0.30		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Cadmium	ND	0.20		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Chromium	6.1	0.60		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Copper	3.3	0.80		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Iron	7000	250		mg/Kg	100	4/6/2020 10:57:55 AM	51507
Lead	0.98	0.60		mg/Kg	2	4/8/2020 10:12:29 AM	51507
Manganese	120	0.40		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Selenium	ND	5.0		mg/Kg	2	4/8/2020 10:12:29 AM	51507
Silver	ND	0.50		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Thallium	ND	5.0		mg/Kg	2	4/6/2020 3:19:17 PM	51507
Uranium	ND	10		mg/Kg	2	4/8/2020 10:12:29 AM	51507
Zinc	18	5.0		mg/Kg	2	4/6/2020 3:19:17 PM	51507
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2020 10:45:38 AM	51487
Surr: BFB	99.3	70-130		%Rec	1	4/6/2020 10:45:38 AM	51487
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/4/2020 8:34:43 PM	51523
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/4/2020 8:34:43 PM	51523
Surr: DNOP	75.0	55.1-146		%Rec	1	4/4/2020 8:34:43 PM	51523
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/6/2020 10:45:38 AM	51487
Toluene	ND	0.047		mg/Kg	1	4/6/2020 10:45:38 AM	51487
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2020 10:45:38 AM	51487
Xylenes, Total	ND	0.093		mg/Kg	1	4/6/2020 10:45:38 AM	51487
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	4/6/2020 10:45:38 AM	51487
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	4/6/2020 10:45:38 AM	51487
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	4/6/2020 10:45:38 AM	51487
Surr: Toluene-d8	99.8	70-130		%Rec	1	4/6/2020 10:45:38 AM	51487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-001	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-001A/S-11208903-032620-CN-T1			Sampling Time	10:35 AM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0579	4/22/2020 8:29:00 PM	MAM	EPA 6020A	
%moisture	6.5	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-002	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-002A/S-11208903-032620-CN-V1			Sampling Time	10:40 AM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0666	4/22/2020 9:08:00 PM	MAM	EPA 6020A	
%moisture	11.1	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-003	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-003A/S-11208903-032620-CN-T2			Sampling Time	11:00 AM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0654	4/22/2020 9:12:00 PM	MAM	EPA 6020A	
%moisture	7.7	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-004	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-004A/S-11208903-032620-CN-V2			Sampling Time	1:30 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0663	4/22/2020 9:16:00 PM	MAM	EPA 6020A	
%moisture	6	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-005	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-005A/S-11208903-032620-CN-V3			Sampling Time	1:40 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0584	4/22/2020 9:20:00 PM	MAM	EPA 6020A	
%moisture	5.7	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-006	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-006A/S-11208903-032620-CN-T3			Sampling Time	1:45 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.232	mg/Kg	0.0629	4/22/2020 9:25:00 PM	MAM	EPA 6020A	
%moisture	7.2	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-007	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-007A/S-11208903-032620-CN-T4			Sampling Time	1:50 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0583	4/22/2020 9:29:00 PM	MAM	EPA 6020A	
%moisture	7.2	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-008	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-008A/S-11208903-032620-CN-V4			Sampling Time	1:50 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0616	4/22/2020 9:33:00 PM	MAM	EPA 6020A	
%moisture	8.2	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-009	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-009A/S-11208903-032620-CN-T5			Sampling Time	2:05 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0860	mg/Kg	0.0523	4/22/2020 9:37:00 PM	MAM	EPA 6020A	
%moisture	18.9	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-010	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0010A/S-11208903-032620-CN-V5			Sampling Time	2:00 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0908	mg/Kg	0.0563	4/22/2020 9:42:00 PM	MAM	EPA 6020A	
%moisture	3.9	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-011	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0011A/S-11208903-032620-CN-T6			Sampling Time	2:10 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0551	4/22/2020 9:46:00 PM	MAM	EPA 6020A	
%moisture	6.5	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-012	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0012A/S-11208903-032620-CN-V6			Sampling Time	2:15 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.06	4/22/2020 10:07:00 PM	MAM	EPA 6020A	
%moisture	4.3	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-013	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0013A/S-11208903-032620-CN-T7			Sampling Time	2:25 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0628	4/28/2020 6:39:00 PM	MAM	EPA 6020A	
%moisture	20.1	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-014	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0014A/S-11208903-032620-CN-V7			Sampling Time	2:30 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0632	4/22/2020 10:16:00 PM	MAM	EPA 6020A	
%moisture	7.9	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-015	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0015A/S-11208903-032620-CN-T8			Sampling Time	2:40 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0609	4/22/2020 10:20:00 PM	MAM	EPA 6020A	
%moisture	7.1	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-016	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0016A/S-11208903-032620-CN-V8			Sampling Time	2:50 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0553	4/22/2020 10:24:00 PM	MAM	EPA 6020A	
%moisture	7.6	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-017	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0017A/S-11208903-032620-CN-T9			Sampling Time	4:25 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0926	mg/Kg	0.0566	4/22/2020 10:29:00 PM	MAM	EPA 6020A	
%moisture	6.7	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-018	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0018A/S-11208903-032620-CN-V9			Sampling Time	4:35 PM		
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0591	4/22/2020 10:33:00 PM	MAM	EPA 6020A	
%moisture	6	%		4/16/2020 5:06:00 PM	MAM	%moisture	

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Attn: ANDY FREEMAN

Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-019	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0019A/S-11208903-032620-CN-T10	Sampling Time	2:10 PM				
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0763	mg/Kg	0.0622	4/22/2020 10:37:00 PM	MAM	EPA 6020A	
%moisture	6.7	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-020	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0020A/S-11208903-032620-CN-V10	Sampling Time	2:15 PM				
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0618	4/22/2020 10:41:00 PM	MAM	EPA 6020A	
%moisture	6.8	%		4/16/2020 5:06:00 PM	MAM	%moisture	

Sample Number	200408003-021	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM	
Client Sample ID	2003D30-0021A/S-11208903-032620-CN-T11	Sampling Time	3:35 PM				
Matrix	Solid						
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0625	4/14/2020 5:06:00 PM	MAM	EPA 6020A	
%moisture	6.1	%		4/14/2020 2:12:00 PM	MAM	%moisture	

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Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-022	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0022A/S-11208903-032620-CN-V11			Sampling Time	3:40 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0645	4/14/2020 5:36:00 PM	MAM	EPA 6020A	
%moisture	7	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Sample Number	200408003-023	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0023A/S-11208903-032620-CN-T12			Sampling Time	3:20 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.0782	mg/Kg	0.0605	4/14/2020 5:40:00 PM	MAM	EPA 6020A	
%moisture	6.9	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Sample Number	200408003-024	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0024A/S-11208903-032620-CN-V12			Sampling Time	3:25 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0636	4/14/2020 5:44:00 PM	MAM	EPA 6020A	
%moisture	10.3	%		4/14/2020 2:12:00 PM	MAM	%moisture	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-025	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0025A/S-11208903-032620-CN-T13			Sampling Time	3:05 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.268	mg/Kg	0.06	4/14/2020 6:05:00 PM	MAM	EPA 6020A	
%moisture	9.4	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Sample Number	200408003-026	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0026A/S-11208903-032620-CN-V13			Sampling Time	3:00 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0628	4/14/2020 6:10:00 PM	MAM	EPA 6020A	
%moisture	9.1	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Sample Number	200408003-027	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0027A/S-11208903-032620-CN-T14			Sampling Time	3:10 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.059	4/14/2020 6:14:00 PM	MAM	EPA 6020A	
%moisture	7.7	%		4/14/2020 2:12:00 PM	MAM	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 200408003
Project Name: 2003D30

Analytical Results Report

Sample Number	200408003-028	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0028A/S-11208903-032620-CN-V14			Sampling Time	3:15 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0623	4/14/2020 6:18:00 PM	MAM	EPA 6020A	
%moisture	2.3	%		4/14/2020 2:12:00 PM	MAM	%moisture	

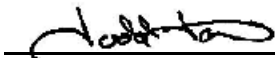
Sample Number	200408003-029	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0029A/S-11208903-032620-CN-T15			Sampling Time	4:00 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	0.321	mg/Kg	0.0662	4/14/2020 6:23:00 PM	MAM	EPA 6020A	
%moisture	9.6	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Sample Number	200408003-030	Sampling Date	3/26/2020	Date/Time Received	4/8/2020	11:54 AM
Client Sample ID	2003D30-0030A/S-11208903-032620-CN-V15			Sampling Time	4:05 PM	
Matrix	Solid					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Mercury-ICPMS	ND	mg/Kg	0.0641	4/14/2020 6:27:00 PM	MAM	EPA 6020A	
%moisture	7.7	%		4/14/2020 2:12:00 PM	MAM	%moisture	

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 200408003
Project Name: 2003D30

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Mercury-ICPMS	0.0271	mg/Kg	0.025	108.4	80-120	4/20/2020	4/28/2020
Mercury-ICPMS	0.0283	mg/Kg	0.025	113.2	80-120	4/20/2020	4/22/2020
Mercury-ICPMS	0.0260	mg/Kg	0.025	104.0	80-120	4/14/2020	4/14/2020

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
200408003-001A	Mercury-ICPMS	ND	0.348	mg/Kg	0.29	120.0	75-125	4/20/2020	4/28/2020
200408003-001	Mercury-ICPMS	ND	0.355	mg/kg	0.29	122.4	75-125	4/20/2020	4/22/2020
200408003-021	Mercury-ICPMS	ND	0.388	mg/Kg	0.313	124.0	75-125	4/14/2020	4/14/2020

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Mercury-ICPMS	0.346	mg/Kg	0.29	119.3	0.6	0-20	4/20/2020	4/28/2020
Mercury-ICPMS	0.346	mg/Kg	0.29	119.3	2.6	0-20	4/20/2020	4/22/2020
Mercury-ICPMS	0.403	mg/Kg	0.313	128.8	3.8	0-20	4/14/2020	4/14/2020

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Mercury-ICPMS	ND	mg/Kg	0.0001	4/20/2020	4/28/2020
Mercury-ICPMS	ND	mg/Kg	0.0001	4/20/2020	4/22/2020
Mercury-ICPMS	ND	mg/Kg	0.0001	4/14/2020	4/14/2020

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:Cert0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-001 **Customer Sample #:** 2003D30-001A/S-11208903-032620-CN-T1

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 10:35 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-002 **Customer Sample #:** 2003D30-002A/S-11208903-032620-CN-V1

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 10:40 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-003 **Customer Sample #:** 2003D30-003A/S-11208903-032620-CN-T2

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 11:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-004 **Customer Sample #:** 2003D30-004A/S-11208903-032620-CN-V2

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 1:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-005 **Customer Sample #:** 2003D30-005A/S-11208903-032620-CN-T3

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 1:40 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-006 **Customer Sample #:** 2003D30-006A/S-11208903-032620-CN-V3

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 1:45 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-007 **Customer Sample #:** 2003D30-007A/S-11208903-032620-CN-T4

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 1:50 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-008 **Customer Sample #:** 2003D30-008A/S-11208903-032620-CN-V4

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 1:50 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-009 **Customer Sample #:** 2003D30-009A/S-11208903-032620-CN-T5

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-010 **Customer Sample #:** 2003D30-0010A/S-11208903-032620-CN-V5

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-011 **Customer Sample #:** 2003D30-0011A/S-11208903-032620-CN-T6

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-012 **Customer Sample #:** 2003D30-0012A/S-11208903-032620-CN-V6

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:15 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-013 **Customer Sample #:** 2003D30-0013A/S-11208903-032620-CN-T7

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:25 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-014 **Customer Sample #:** 2003D30-0014A/S-11208903-032620-CN-V7

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-015 **Customer Sample #:** 2003D30-0015A/S-11208903-032620-CN-T8

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:40 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-016 **Customer Sample #:** 2003D30-0016A/S-11208903-032620-CN-V8

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:50 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-017 **Customer Sample #:** 2003D30-0017A/S-11208903-032620-CN-T9

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 4:25 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-018 **Customer Sample #:** 2003D30-0018A/S-11208903-032620-CN-V9

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 4:35 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-019 **Customer Sample #:** 2003D30-0019A/S-11208903-032620-CN-T10

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-020 **Customer Sample #:** 2003D30-0020A/S-11208903-032620-CN-V10

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 2:15 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-021 **Customer Sample #:** 2003D30-0021A/S-11208903-032620-CN-T11

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:35 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-022 **Customer Sample #:** 2003D30-0022A/S-11208903-032620-CN-V11

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:40 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-023 **Customer Sample #:** 2003D30-0023A/S-11208903-032620-CN-T12

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:20 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-024 **Customer Sample #:** 2003D30-0024A/S-11208903-032620-CN-V12

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:25 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-025 **Customer Sample #:** 2003D30-0025A/S-11208903-032620-CN-T13

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-026 **Customer Sample #:** 2003D30-0026A/S-11208903-032620-CN-V13

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-027 **Customer Sample #:** 2003D30-0027A/S-11208903-032620-CN-T14

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:10 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

Sample #: 200408003-028 **Customer Sample #:** 2003D30-0028A/S-11208903-032620-CN-V14

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 3:15 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-029 **Customer Sample #:** 2003D30-0029A/S-11208903-032620-CN-T15

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 4:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Sample #: 200408003-030 **Customer Sample #:** 2003D30-0030A/S-11208903-032620-CN-V15

Recv'd: ☒ **Matrix:** Solid **Collector:** **Date Collected:** 3/26/2020
Quantity: 1 **Date Received:** 4/8/2020 11:54:00 AM **Time Collected:** 4:05 PM
Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	4/20/2020	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	M	EPA 6020A	4/20/2020	<u>Normal (~10 Days)</u>

Customer Name: HALL ENVIRONMENTAL ANALYSIS LAB
4901 HAWKINS NE SUITE D
ALBUQUERQUE NM 87109

Order ID: 200408003
Order Date: 4/8/2020

Contact Name: ANDY FREEMAN

Project Name: 2003D30

Comment:

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	4.6
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	N/A
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes
Total number of containers?	30



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 3

200408 003 HALL
1st SAMP 3/26/2020 1st RCVD 4/20/2020
2003D30 Due 4/8/2020

SUB CONTRACTOR: Anatek Labs	COMPANY: Anatek Labs, Inc.	PHONE: (208) 883-2839	FAX: (208) 882-9246
ADDRESS: 1282 Alturas Dr	ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP: Moscow, ID 83843			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
-1	2003D30-001B	S-11208903-032620-CN-T1	4OZGU	Soil	3/26/2020 10:35:00 AM	1 Hg by 6020	
-2	2003D30-002B	S-11208903-032620-CN-V1	4OZGU	Soil	3/26/2020 10:40:00 AM	1 Hg by 6020	
-3	2003D30-003B	S-11208903-032620-CN-T2	4OZGU	Soil	3/26/2020 11:00:00 AM	1 Hg by 6020	
-4	2003D30-004B	S-11208903-032620-CN-V2	4OZGU	Soil	3/26/2020 1:30:00 PM	1 Hg by 6020	
-5	2003D30-005B	S-11208903-032620-CN-T3	4OZGU	Soil	3/26/2020 1:40:00 PM	1 Hg by 6020	
-6	2003D30-006B	S-11208903-032620-CN-V3	4OZGU	Soil	3/26/2020 1:45:00 PM	1 Hg by 6020	
-7	2003D30-007B	S-11208903-032620-CN-T4	4OZGU	Soil	3/26/2020 1:50:00 PM	1 Hg by 6020	
-8	2003D30-008B	S-11208903-032620-CN-V4	4OZGU	Soil	3/26/2020 1:50:00 PM	1 Hg by 6020	
-9	2003D30-009B	S-11208903-032620-CN-T5	4OZGU	Soil	3/26/2020 2:05:00 PM	1 Hg by 6020	
-10	2003D30-010B	S-11208903-032620-CN-V5	4OZGU	Soil	3/26/2020 2:00:00 PM	1 Hg by 6020	
-11	2003D30-011B	S-11208903-032620-CN-T6	4OZGU	Soil	3/26/2020 2:10:00 PM	1 Hg by 6020	
-12	2003D30-012B	S-11208903-032620-CN-V6	4OZGU	Soil	3/26/2020 2:15:00 PM	1 Hg by 6020	
-13	2003D30-013B	S-11208903-032620-CN-T7	4OZGU	Soil	3/26/2020 2:25:00 PM	1 Hg by 6020	

SPECIAL INSTRUCTIONS/COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: 4/7/2020	Time: 12:00 PM	Received By: HS	Date: 4-8-20	Time: 11:54
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐					
REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE					
FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____					



CHAIN OF CUSTODY RECORD

PAGE: 2 OF 3

200408 003 HALL
1st SAMP 3/26/2020 1st RCVD 4/8/2020
2003D30

SUB CONTRACTOR:	Anatek Labs	COMPANY:	Anatek Labs, Inc.	PHONE:	(208) 883-2839	FAX:	(208) 882-9246
ADDRESS:	1282 Alturas Dr			ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP:	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
-14	2003D30-014B	S-11208903-032620-CN-V7	4OZGU	Soil	3/26/2020 2:30:00 PM	1 Hg by 6020	
-15	2003D30-015B	S-11208903-032620-CN-T8	4OZGU	Soil	3/26/2020 2:40:00 PM	1 Hg by 6020	
-16	2003D30-016B	S-11208903-032620-CN-V8	4OZGU	Soil	3/26/2020 2:50:00 PM	1 Hg by 6020	
-17	2003D30-017B	S-11208903-032620-CN-T9	4OZGU	Soil	3/26/2020 4:25:00 PM	1 Hg by 6020	
-18	2003D30-018B	S-11208903-032620-CN-V9	4OZGU	Soil	3/26/2020 4:35:00 PM	1 Hg by 6020	
-19	2003D30-019B	S-11208903-032620-CN-T10	4OZGU	Soil	3/26/2020 2:10:00 PM	1 Hg by 6020	
-20	2003D30-020B	S-11208903-032620-CN-V10	4OZGU	Soil	3/26/2020 2:15:00 PM	1 Hg by 6020	
-21	2003D30-021B	S-11208903-032620-CN-T11	4OZGU	Soil	3/26/2020 3:35:00 PM	1 Hg by 6020	
-22	2003D30-022B	S-11208903-032620-CN-V11	4OZGU	Soil	3/26/2020 3:40:00 PM	1 Hg by 6020	
-23	2003D30-023B	S-11208903-032620-CN-T12	4OZGU	Soil	3/26/2020 3:20:00 PM	1 Hg by 6020	
-24	2003D30-024B	S-11208903-032620-CN-V12	4OZGU	Soil	3/26/2020 3:25:00 PM	1 Hg by 6020	
-25	2003D30-025B	S-11208903-032620-CN-T13	4OZGU	Soil	3/26/2020 3:05:00 PM	1 Hg by 6020	
-26	2003D30-026B	S-11208903-032620-CN-V13	4OZGU	Soil	3/26/2020 3:00:00 PM	1 Hg by 6020	

SPECIAL INSTRUCTIONS/ COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By:	Date: 4/7/2020	Time: 12:00 PM	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard ☐ Rush ☐ New BD ☐ 2nd BD ☐ 3rd BD ☐			REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE		
			FOR LAB USE ONLY		
			Temp of samples ☐ Attempt to Cool? ☐		
			Comments:		



CHAIN OF CUSTODY RECORD

PAGE: 3 OF 3

200408 003 **HALL** Last Due 4/20/2020
1st SAMP 3/26/2020 1st RCVD 4/8/2020
2003D30

www.hallenv.com

SUB CONTRACTOR:	Anatek Labs	COMPANY:	Anatek Labs, Inc.	PHONE:	(208) 883-2839	FAX:	(208) 882-9246
ADDRESS:	1282 Alturas Dr			ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP:	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
27	2003D30-027B	S-11208903-032620-CN-T14	4OZGU	Soil	3/26/2020 3:10:00 PM	1	Hg by 6020
28	2003D30-028B	S-11208903-032620-CN-V14	4OZGU	Soil	3/26/2020 3:15:00 PM	1	Hg by 6020
29	2003D30-029B	S-11208903-032620-CN-T15	4OZGU	Soil	3/26/2020 4:00:00 PM	1	Hg by 6020
30	2003D30-030B	S-11208903-032620-CN-V15	4OZGU	Soil	3/26/2020 4:05:00 PM	1	Hg by 6020

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com Please return all coolers and blue ice. Thank you.

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☐ RU SH Next BD 2nd BD 3rd BD						FOR LAB USE ONLY Temp of Samples Attempt to Cool?
Comments:						

Hannah Sullivan

From: Andy Freeman <andy@hallenvironmental.com>
Sent: Wednesday, April 8, 2020 1:45 PM
To: Hannah Sullivan
Subject: RE: Sample ID issue

Hi Hannah,

It is fine to use the A jars. You can log in as A.

We have two different jars per sample. A and B. We just sent the A instead of B. They are the same thing.

Thank you,

Andy Freeman - Hall Environmental, 4901 Hawkins NE, Albuquerque, NM 87109, 505-345-3975, 505-345-4107 fax
www.hallenvironmental.com - andy@hallenvironmental.com - <https://www.surveymonkey.com/r/NGVXRBV>

For easy access to all of your past reports, setup an account on the Hall Environmental Web Portal. Just visit our website and follow the instructions for setting up an account.

We welcome your feedback. Please visit the survey monkey link to complete a brief survey on your experience with Hall Environmental.

From: Hannah Sullivan <hannahs@anateklabs.com>
Sent: Wednesday, April 8, 2020 2:42 PM
To: Andy Freeman <andy@hallenvironmental.com>
Subject: Sample ID issue

Hi Andy,

We received the thirty soil samples for Hg 6020 analysis and have just a slight issue with the labels. The chain lists them as 2003D30-001B through -030B, but the jars all have -001A through -030A instead. The sample time and client IDs match exactly for all 30 though, so I wanted to check and see if that was a typo.

Thanks!

Hannah Sullivan
Shipping & Receiving
Anatek Labs, Inc
1282 Alturas Dr
Moscow, ID 83843
(208) 883-2839

Notice of Confidentiality

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Anatek Labs, Inc.

Sample Receipt and Preservation Form

200408 003 **HALL** Last Due 4/20/2020
1st SAMP 3/26/2020 1st RCVD 4/8/2020
2003D30

Client Name: Hall Project:TAT: Normal RUSH: _____ daysSamples Received From: FedEx UPS USPS Client Courier Other: _____Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/ANumber of Coolers/Boxes: 1 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice NonePacking Material: Bubble Wrap Bags Foam/Peanuts None Other: paperCooler Temp As Read (°C): 4.6 Cooler Temp Corrected (°C): 4.6 Thermometer Used: IR-3Samples Received Intact? Yes No N/AChain of Custody Present? Yes No N/ASamples Received Within Hold Time? Yes No N/ASamples Properly Preserved? Yes No N/AVOC Vials Free of Headspace (<6mm)? Yes No N/AVOC Trip Blanks Present? Yes No N/ALabels and Chains Agree? Yes No N/ATotal Number of Sample Bottles Received: 30Chain of Custody Fully Completed? Yes No N/ACorrect Containers Received? Yes No N/AAnatek Bottles Used? Yes No Unknown

Comments:

chain lists - XXX B, containers - XXX A
client ID is the same though, probably
a typo, but will email to double check

Record preservatives (and lot numbers, if known) for containers below:

None

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

see attached email TB

Received/Inspected By: TB Date/Time: 4-8-20 11:54

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: MB-51532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51532	RunNo: 67815								
Prep Date: 4/3/2020	Analysis Date: 4/3/2020	SeqNo: 2342819 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51532	RunNo: 67815								
Prep Date: 4/3/2020	Analysis Date: 4/3/2020	SeqNo: 2342820 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: MB-51558	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51558	RunNo: 67852								
Prep Date: 4/4/2020	Analysis Date: 4/4/2020	SeqNo: 2343754 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51558	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51558	RunNo: 67852								
Prep Date: 4/4/2020	Analysis Date: 4/4/2020	SeqNo: 2343755 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: MB-51561	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51561	RunNo: 67852								
Prep Date: 4/4/2020	Analysis Date: 4/4/2020	SeqNo: 2343786 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51561	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51561	RunNo: 67852								
Prep Date: 4/4/2020	Analysis Date: 4/4/2020	SeqNo: 2343787 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: LCS-51498	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51498			RunNo: 67841						
Prep Date: 4/1/2020	Analysis Date: 4/4/2020			SeqNo: 2343245			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	70	130			
Surr: DNOP	4.4		5.000		88.7	55.1	146			

Sample ID: MB-51498	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 51498			RunNo: 67841						
Prep Date: 4/1/2020	Analysis Date: 4/4/2020			SeqNo: 2343246			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.4	55.1	146			

Sample ID: MB-51523	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 51523			RunNo: 67837						
Prep Date: 4/2/2020	Analysis Date: 4/4/2020			SeqNo: 2343707			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	55.1	146			

Sample ID: LCS-51523	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51523			RunNo: 67837						
Prep Date: 4/2/2020	Analysis Date: 4/4/2020			SeqNo: 2343709			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.3		5.000		86.3	55.1	146			

Sample ID: 2003D30-011AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: S-11208903-032620-	Batch ID: 51523			RunNo: 67858						
Prep Date: 4/2/2020	Analysis Date: 4/5/2020			SeqNo: 2344533			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.2	45.87	0	119	47.4	136			
Surr: DNOP	5.1		4.587		111	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2003D30-011AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: S-11208903-032620-		Batch ID: 51523		RunNo: 67858						
Prep Date: 4/2/2020		Analysis Date: 4/5/2020		SeqNo: 2344534		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	9.9	49.60	0	137	47.4	136	21.6	43.4	S
Surr: DNOP	5.8		4.960		118	55.1	146	0	0	

Sample ID: 2003D30-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: S-11208903-032620-		Batch ID: 51498		RunNo: 67874						
Prep Date: 4/1/2020		Analysis Date: 4/6/2020		SeqNo: 2344753		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.6	47.89	22.36	91.5	47.4	136			
Surr: DNOP	5.1		4.789		107	55.1	146			

Sample ID: 2003D30-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: S-11208903-032620-		Batch ID: 51498		RunNo: 67874						
Prep Date: 4/1/2020		Analysis Date: 4/6/2020		SeqNo: 2344756		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.7	48.69	22.36	73.4	47.4	136	13.0	43.4	
Surr: DNOP	4.4		4.869		91.4	55.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: mb-51485	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 51485		RunNo: 67805							
Prep Date: 4/1/2020	Analysis Date: 4/2/2020		SeqNo: 2342066		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.9	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.4	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.4	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID: lcs-51485	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: 51485		RunNo: 67805							
Prep Date: 4/1/2020	Analysis Date: 4/2/2020		SeqNo: 2342067		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	70	130			
Toluene	1.1	0.050	1.000	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.3	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID: mb-51487	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 51487		RunNo: 67881							
Prep Date: 4/1/2020	Analysis Date: 4/5/2020		SeqNo: 2345162		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.0	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.8	70	130			

Sample ID: lcs-51487	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 51487		RunNo: 67881							
Prep Date: 4/1/2020	Analysis Date: 4/5/2020		SeqNo: 2345164		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: Ics-51487	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 51487	RunNo: 67881								
Prep Date: 4/1/2020	Analysis Date: 4/5/2020	SeqNo: 2345164	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.48		0.5000		97.0	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID: 2003d30-011ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-11208903-032620-	Batch ID: 51487	RunNo: 67881								
Prep Date: 4/1/2020	Analysis Date: 4/5/2020	SeqNo: 2345169	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9852	0	86.5	80	120			
Toluene	0.95	0.049	0.9852	0	96.6	80	120			
Ethylbenzene	0.99	0.049	0.9852	0	100	80	120			
Xylenes, Total	2.9	0.099	2.956	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	0.45		0.4926		92.0	70	130			
Surr: Toluene-d8	0.48		0.4926		96.5	70	130			

Sample ID: 2003d30-011amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-11208903-032620-	Batch ID: 51487	RunNo: 67881								
Prep Date: 4/1/2020	Analysis Date: 4/5/2020	SeqNo: 2345171	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9200	0	89.1	80	120	3.83	20	
Toluene	0.94	0.046	0.9200	0	102	80	120	1.02	20	
Ethylbenzene	0.98	0.046	0.9200	0	106	80	120	1.03	20	
Xylenes, Total	2.8	0.092	2.760	0	102	80	120	2.43	20	
Surr: 4-Bromofluorobenzene	0.44		0.4600		96.6	70	130	0	0	
Surr: Toluene-d8	0.45		0.4600		98.4	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: LCS-51507	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345006	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	22	2.5	25.00	0	88.5	80	120			
Barium	24	0.10	25.00	0	95.4	80	120			
Beryllium	24	0.15	25.00	0	95.9	80	120			
Cadmium	24	0.10	25.00	0	96.2	80	120			
Chromium	24	0.30	25.00	0	96.2	80	120			
Copper	26	0.40	25.00	0	105	80	120			
Iron	26	2.5	25.00	0	104	80	120			B
Lead	23	0.30	25.00	0	92.9	80	120			
Manganese	24	0.20	25.00	0	96.1	80	120			
Selenium	23	2.5	25.00	0	90.9	80	120			
Silver	4.4	0.25	5.000	0	87.3	80	120			
Zinc	24	2.5	25.00	0	95.9	80	120			

Sample ID: MB-51507	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345007	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.6	2.5								

Sample ID: MB-51507	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345024	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.40								
Lead	ND	0.30								
Manganese	ND	0.20								
Selenium	ND	2.5								
Silver	ND	0.25								
Zinc	ND	2.5								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: MB-51507	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345681 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Thallium	ND	2.5								

Sample ID: LCS-51507	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345683 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.7	80	120			
Thallium	23	2.5	25.00	0	93.3	80	120			

Sample ID: 2003D30-024AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-11208903-032620-	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345724 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	5.0	25.24	0	0	75	125			S
Barium	82	0.20	25.24	60.30	86.0	75	125			
Beryllium	26	0.30	25.24	0.6851	102	75	125			
Cadmium	24	0.20	25.24	0	96.5	75	125			
Chromium	35	0.61	25.24	9.932	100	75	125			
Copper	28	0.81	25.24	2.618	99.9	75	125			
Manganese	86	0.40	25.24	134.1	-191	75	125			S
Selenium	21	5.0	25.24	0	83.8	75	125			
Silver	2.8	0.50	5.047	0	55.4	75	125			S
Thallium	ND	5.0	25.24	0	0	75	125			S
Zinc	49	5.0	25.24	23.18	102	75	125			

Sample ID: 2003D30-024AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: S-11208903-032620-	Batch ID: 51507	RunNo: 67877								
Prep Date: 4/2/2020	Analysis Date: 4/6/2020	SeqNo: 2345725 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	4.8	24.00	0	18.2	75	125	0	20	RS
Barium	94	0.19	24.00	60.30	139	75	125	13.3	20	S
Beryllium	24	0.29	24.00	0.6851	97.6	75	125	9.06	20	
Cadmium	23	0.19	24.00	0	94.3	75	125	7.32	20	
Chromium	34	0.58	24.00	9.932	98.4	75	125	4.96	20	
Copper	28	0.77	24.00	2.618	106	75	125	0.414	20	
Manganese	74	0.38	24.00	134.1	-249	75	125	14.5	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2003D30-024AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-11208903-032620-		Batch ID: 51507		RunNo: 67877						
Prep Date: 4/2/2020		Analysis Date: 4/6/2020		SeqNo: 2345725		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	19	4.8	24.00	0	78.3	75	125	11.9	20	
Silver	2.8	0.48	4.799	0	58.8	75	125	0.821	20	S
Thallium	ND	4.8	24.00	0	0	75	125	0	20	S
Zinc	46	4.8	24.00	23.18	95.6	75	125	6.16	20	

Sample ID: LCS-51629		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: LCSS		Batch ID: 51629		RunNo: 67961						
Prep Date: 4/7/2020		Analysis Date: 4/8/2020		SeqNo: 2348144			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.0	80	120			
Arsenic	24	2.5	25.00	0	95.9	80	120			
Barium	24	0.10	25.00	0	96.5	80	120			
Beryllium	25	0.15	25.00	0	102	80	120			
Cadmium	24	0.10	25.00	0	95.5	80	120			
Chromium	24	0.30	25.00	0	96.9	80	120			
Copper	26	0.40	25.00	0	102	80	120			B
Iron	27	2.5	25.00	0	107	80	120			
Lead	24	0.30	25.00	0	97.3	80	120			
Manganese	24	0.20	25.00	0	97.7	80	120			
Selenium	25	2.5	25.00	0	98.6	80	120			
Silver	4.7	0.25	5.000	0	93.0	80	120			
Thallium	24	2.5	25.00	0	95.5	80	120			
Uranium	25	5.0	25.00	0	101	80	120			
Zinc	23	2.5	25.00	0	93.9	80	120			

Sample ID: MB-51629		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS		Batch ID: 51629		RunNo: 67961						
Prep Date: 4/7/2020		Analysis Date: 4/8/2020		SeqNo: 2348146			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Arsenic	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	0.45	0.40								
Iron	ND	2.5								
Lead	ND	0.30								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: MB-51629		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS		Batch ID: 51629		RunNo: 67961						
Prep Date: 4/7/2020		Analysis Date: 4/8/2020		SeqNo: 2348146			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	ND	0.20								
Selenium	ND	2.5								
Silver	ND	0.25								
Thallium	ND	2.5								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID: MB-51507		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals						
Client ID: PBS		Batch ID: 51507		RunNo: 67961						
Prep Date: 4/2/2020		Analysis Date: 4/8/2020		SeqNo: 2348150			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	5.0								

Sample ID: LCS-51507		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: LCSS		Batch ID: 51507		RunNo: 67961						
Prep Date: 4/2/2020		Analysis Date: 4/8/2020		SeqNo: 2348151			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	25	5.0	25.00	0	99.3	80	120			

Sample ID: 2003D30-024AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-11208903-032620-		Batch ID: 51507		RunNo: 67961						
Prep Date: 4/2/2020		Analysis Date: 4/8/2020		SeqNo: 2348224		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.61	25.24	0	96.1	75	125			
Uranium	ND	10	25.24	0	0	75	125			S

Sample ID: 2003D30-024AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: S-11208903-032620-		Batch ID: 51507		RunNo: 67961						
Prep Date: 4/2/2020		Analysis Date: 4/8/2020		SeqNo: 2348225		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.58	24.00	0	91.0	75	125	10.4	20	
Uranium	ND	9.6	24.00	0	0	75	125	0	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2003D30-024AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-11208903-032620-	Batch ID: 51507	RunNo: 67961
Prep Date: 4/2/2020	Analysis Date: 4/8/2020	SeqNo: 2348264 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Arsenic	42	5.0 25.24 12.40 117 75 125

Sample ID: 2003D30-024AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals
Client ID: S-11208903-032620-	Batch ID: 51507	RunNo: 67961
Prep Date: 4/2/2020	Analysis Date: 4/8/2020	SeqNo: 2348265 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Arsenic	28	4.8 24.00 12.40 64.4 75 125 40.3 20 RS

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: mb-51485	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 51485			RunNo: 67805						
Prep Date: 4/1/2020	Analysis Date: 4/2/2020			SeqNo: 2342171		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.7	70	130			

Sample ID: lcs-51485	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 51485			RunNo: 67805						
Prep Date: 4/1/2020	Analysis Date: 4/2/2020			SeqNo: 2342172		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	70	130			
Surr: BFB	490		500.0		98.5	70	130			

Sample ID: mb-51487	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 51487			RunNo: 67881						
Prep Date: 4/1/2020	Analysis Date: 4/5/2020			SeqNo: 2345213		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		98.6	70	130			

Sample ID: lcs-51487	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 51487			RunNo: 67881						
Prep Date: 4/1/2020	Analysis Date: 4/5/2020			SeqNo: 2345214		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	70	130			
Surr: BFB	500		500.0		99.3	70	130			

Sample ID: 2003d30-012ams	SampType: MS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: S-11208903-032620-	Batch ID: 51487			RunNo: 67881						
Prep Date: 4/1/2020	Analysis Date: 4/6/2020			SeqNo: 2345218		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.37	0	93.0	70	130			
Surr: BFB	480		487.3		98.2	70	130			

Sample ID: 2003d30-012amsd	SampType: MSD			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: S-11208903-032620-	Batch ID: 51487			RunNo: 67881						
Prep Date: 4/1/2020	Analysis Date: 4/6/2020			SeqNo: 2345219		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2003D30

10-Jun-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2003d30-012amsd		SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: S-11208903-032620-		Batch ID: 51487		RunNo: 67881						
Prep Date: 4/1/2020		Analysis Date: 4/6/2020		SeqNo: 2345219		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.32	0	98.2	70	130	1.05	20	
Surr: BFB	470		466.4		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2003D30

RcptNo: 1

Received By: Isalah Ortiz 3/31/2020 8:50:00 AM

Completed By: John Caldwell 3/31/2020 1:19:52 PM

Reviewed By: LB

3/31/2020
4/1/2020

I-Of

John Caldwell

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)

Adjusted?

Checked by: JE 4/1/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	Christine Matthews	Date:	4/7/20
By Whom:	Leah Baca	Via:	☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	switched collection times on labels for -005, -006		
Client Instructions:	Go with the collection times on COC		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good				
2	0.4	Good				

Chain-of-Custody Record

Client: CHD Services

Mailing Address: 6121 Indian School Rd NE #200
Albuquerque NM, 87110

Phone #: 5058840672

email or Fax#:

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP

☐ Other

☐ EDD (Type)

Project Manager:

Christine Mathews

Sampler:

CN

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.1-0.14F 0.0C

Sample Request ID

Matrix

Time

Date

Container Type and #

Preservative Type

HEAL No. 0.5-0.14F 0.0C
ISO 2003D30

8021 BTEX

8015 TPH GRO DRO ORO

300.0 Chloride

6010 Metals (see notes)

6020 Mercury

Air Bubbles (Y or N)

Relinquished by:

Time:

Date:

Received by:

Date

Time

Remarks:

Metals List: Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Mn, Pb, Se, Ag, Ti (thallium), Zn, Hg, U

3/30/20 0940

3/31/20 0850

Relinquished by: *Chad N. Noyes*

Relinquished by:

Time:

Date:

1/2 (colours) 0.2-0.14F/0.1

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Sample - 005 and -006 were swapped by CHD in field. (TS) (63) Revise Report per cm. JWB 6/10/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record									
Client:		CHD Services							
Mailing Address:		6121 Indian School Rd NE #200 Albuquerque NM, 87110							
Phone #:		5058840672							
email or Fax#:									
QA/QC Package:									
☐ Standard		☐ Level 4 (Full Validation)							
Accreditation:									
☐ NELAP		☐ Other							
☐ EDD (Type)									
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Sample Temperature: 0.1-0.14°F 0.0°C	Heal No.	Preservative Type	Sample Temperature: 0.1-0.14°F 0.0°C
3/26/2020	1425	S	S-11208903-032620-CN-T7	Various	none	-013	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1430	S	S-11208903-032620-CN-V7	Various	none	-014	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1440	S	S-11208903-032620-CN-T8	Various	none	-015	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1450	S	S-11208903-032620-CN-V8	Various	none	-016	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1625	S	S-11208903-032620-CN-T9	Various	none	-017	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1635	S	S-11208903-032620-CN-V9	Various	none	-018	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1610	S	S-11208903-032620-CN-T10	Various	none	-019	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1615	S	S-11208903-032620-CN-V10	Various	none	-020	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1535	S	S-11208903-032620-CN-T11	Various	none	-021	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1540	S	S-11208903-032620-CN-V11	Various	none	-022	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1525	S	S-11208903-032620-CN-T12	Various	none	-023	0.5-0.14°F 0.4°C	none	2003 D30
3/26/2020	1525	S	S-11208903-032620-CN-V12	Various	none	-024	0.5-0.14°F 0.4°C	none	2003 D30
Date:	Time:	Relinquished by:		Relinquished by:					
3/30/20	0830	Chris N. Nye		Chris N. Nye					
Date:	Time:	Relinquished by:		Relinquished by:					
3/31/20	0850	Fedex		Fedex					

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 10, 2020

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Jal Landfarm

OrderNo.: 2008G23

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 30 sample(s) on 8/28/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-001

Collection Date: 8/27/2020 9:25:00 AM

Client Sample ID: S-11208903-082720-CN-T1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	21	7.5		mg/Kg	5	9/2/2020 9:15:05 PM	54886
Sulfate	110	7.5		mg/Kg	5	9/2/2020 9:15:05 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/31/2020 4:40:00 PM	54769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2020 4:40:00 PM	54769
Surr: DNOP	104	30.4-154		%Rec	1	8/31/2020 4:40:00 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 9:28:45 AM	54783
Surr: BFB	100	75.3-105		%Rec	1	8/31/2020 9:28:45 AM	54783

Lab ID: 2008G23-002

Collection Date: 8/27/2020 9:35:00 AM

Client Sample ID: S-11208903-082720-CN-V1

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/2/2020 9:39:54 PM	54886
Sulfate	60	7.5		mg/Kg	5	9/2/2020 9:39:54 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/31/2020 4:59:24 PM	54769
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2020 4:59:24 PM	54769
Surr: DNOP	72.3	30.4-154		%Rec	1	8/31/2020 4:59:24 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/31/2020 10:48:31 AM	54783
Surr: BFB	93.9	75.3-105		%Rec	1	8/31/2020 10:48:31 AM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/31/2020 10:48:31 AM	54783
Toluene	ND	0.050		mg/Kg	1	8/31/2020 10:48:31 AM	54783
Ethylbenzene	ND	0.050		mg/Kg	1	8/31/2020 10:48:31 AM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	8/31/2020 10:48:31 AM	54783
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	8/31/2020 10:48:31 AM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-003

Collection Date: 8/27/2020 9:45:00 AM

Client Sample ID: S-11208903-082720-CN-T2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	12	7.5		mg/Kg	5	9/2/2020 10:29:33 PM	54886
Sulfate	350	7.5		mg/Kg	5	9/2/2020 10:29:33 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	45	9.6		mg/Kg	1	9/1/2020 9:39:35 AM	54769
Motor Oil Range Organics (MRO)	200	48		mg/Kg	1	9/1/2020 9:39:35 AM	54769
Surr: DNOP	104	30.4-154		%Rec	1	9/1/2020 9:39:35 AM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 11:58:51 AM	54783
Surr: BFB	97.7	75.3-105		%Rec	1	8/31/2020 11:58:51 AM	54783

Lab ID: 2008G23-004

Collection Date: 8/27/2020 9:55:00 AM

Client Sample ID: S-11208903-082720-CN-V2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/2/2020 10:54:23 PM	54886
Sulfate	53	7.5		mg/Kg	5	9/2/2020 10:54:23 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/31/2020 5:19:01 PM	54769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2020 5:19:01 PM	54769
Surr: DNOP	68.0	30.4-154		%Rec	1	8/31/2020 5:19:01 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 12:22:15 PM	54783
Surr: BFB	97.9	75.3-105		%Rec	1	8/31/2020 12:22:15 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/31/2020 12:22:15 PM	54783
Toluene	ND	0.049		mg/Kg	1	8/31/2020 12:22:15 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	8/31/2020 12:22:15 PM	54783
Xylenes, Total	ND	0.097		mg/Kg	1	8/31/2020 12:22:15 PM	54783
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/31/2020 12:22:15 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-005

Collection Date: 8/27/2020 10:00:00 AM

Client Sample ID: S-11208903-082720-CN-T3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/2/2020 11:19:12 PM	54886
Sulfate	32	7.5		mg/Kg	5	9/2/2020 11:19:12 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	290	97		mg/Kg	10	8/31/2020 5:28:58 PM	54769
Motor Oil Range Organics (MRO)	750	480		mg/Kg	10	8/31/2020 5:28:58 PM	54769
Surr: DNOP	0	30.4-154	S	%Rec	10	8/31/2020 5:28:58 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 12:45:41 PM	54783
Surr: BFB	97.1	75.3-105		%Rec	1	8/31/2020 12:45:41 PM	54783

Lab ID: 2008G23-006

Collection Date: 8/27/2020 10:15:00 AM

Client Sample ID: S-11208903-082720-CN-V3

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/2/2020 11:44:01 PM	54886
Sulfate	28	7.5		mg/Kg	5	9/2/2020 11:44:01 PM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2020 5:38:57 PM	54769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2020 5:38:57 PM	54769
Surr: DNOP	68.6	30.4-154		%Rec	1	8/31/2020 5:38:57 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/31/2020 1:09:09 PM	54783
Surr: BFB	95.3	75.3-105		%Rec	1	8/31/2020 1:09:09 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/31/2020 1:09:09 PM	54783
Toluene	ND	0.050		mg/Kg	1	8/31/2020 1:09:09 PM	54783
Ethylbenzene	ND	0.050		mg/Kg	1	8/31/2020 1:09:09 PM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	8/31/2020 1:09:09 PM	54783
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	8/31/2020 1:09:09 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-007

Collection Date: 8/27/2020 10:20:00 AM

Client Sample ID: S-11208903-082720-CN-T4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 12:08:49 AM	54886
Sulfate	31	7.5		mg/Kg	5	9/3/2020 12:08:49 AM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	43	19		mg/Kg	2	8/31/2020 5:48:56 PM	54769
Motor Oil Range Organics (MRO)	150	96		mg/Kg	2	8/31/2020 5:48:56 PM	54769
Surr: DNOP	73.1	30.4-154		%Rec	2	8/31/2020 5:48:56 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 1:32:44 PM	54783
Surr: BFB	93.4	75.3-105		%Rec	1	8/31/2020 1:32:44 PM	54783

Lab ID: 2008G23-008

Collection Date: 8/27/2020 10:25:00 AM

Client Sample ID: S-11208903-082720-CN-V4

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 12:58:29 AM	54886
Sulfate	79	7.5		mg/Kg	5	9/3/2020 12:58:29 AM	54886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	11	9.2		mg/Kg	1	8/31/2020 5:58:57 PM	54769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2020 5:58:57 PM	54769
Surr: DNOP	75.8	30.4-154		%Rec	1	8/31/2020 5:58:57 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 1:56:10 PM	54783
Surr: BFB	98.6	75.3-105		%Rec	1	8/31/2020 1:56:10 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/31/2020 1:56:10 PM	54783
Toluene	ND	0.049		mg/Kg	1	8/31/2020 1:56:10 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	8/31/2020 1:56:10 PM	54783
Xylenes, Total	ND	0.098		mg/Kg	1	8/31/2020 1:56:10 PM	54783
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/31/2020 1:56:10 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-009

Collection Date: 8/27/2020 10:30:00 AM

Client Sample ID: S-11208903-082720-CN-T5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 1:48:07 AM	54888
Sulfate	ND	7.5		mg/Kg	5	9/3/2020 1:48:07 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/31/2020 6:08:58 PM	54769
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2020 6:08:58 PM	54769
Surr: DNOP	70.9	30.4-154		%Rec	1	8/31/2020 6:08:58 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/31/2020 2:19:45 PM	54783
Surr: BFB	98.5	75.3-105		%Rec	1	8/31/2020 2:19:45 PM	54783

Lab ID: 2008G23-010

Collection Date: 8/27/2020 10:40:00 AM

Client Sample ID: S-11208903-082720-CN-V5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 2:37:45 AM	54888
Sulfate	20	7.5		mg/Kg	5	9/3/2020 2:37:45 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/31/2020 6:19:00 PM	54769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2020 6:19:00 PM	54769
Surr: DNOP	72.8	30.4-154		%Rec	1	8/31/2020 6:19:00 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2020 2:43:09 PM	54783
Surr: BFB	95.3	75.3-105		%Rec	1	8/31/2020 2:43:09 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/31/2020 2:43:09 PM	54783
Toluene	ND	0.049		mg/Kg	1	8/31/2020 2:43:09 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	8/31/2020 2:43:09 PM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	8/31/2020 2:43:09 PM	54783
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	8/31/2020 2:43:09 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-011

Collection Date: 8/27/2020 10:45:00 AM

Client Sample ID: S-11208903-082720-CN-T6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 3:27:23 AM	54888
Sulfate	51	7.5		mg/Kg	5	9/3/2020 3:27:23 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/1/2020 10:27:21 AM	54769
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2020 10:27:21 AM	54769
Surr: DNOP	97.7	30.4-154		%Rec	1	9/1/2020 10:27:21 AM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 8:36:45 PM	54783
Surr: BFB	95.0	75.3-105		%Rec	1	9/1/2020 8:36:45 PM	54783

Lab ID: 2008G23-012

Collection Date: 8/27/2020 10:50:00 AM

Client Sample ID: S-11208903-082720-CN-V6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 4:17:01 AM	54888
Sulfate	13	7.5		mg/Kg	5	9/3/2020 4:17:01 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	8/31/2020 6:39:06 PM	54769
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/31/2020 6:39:06 PM	54769
Surr: DNOP	67.5	30.4-154		%Rec	1	8/31/2020 6:39:06 PM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2020 9:00:13 PM	54783
Surr: BFB	96.3	75.3-105		%Rec	1	9/1/2020 9:00:13 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/1/2020 9:00:13 PM	54783
Toluene	ND	0.050		mg/Kg	1	9/1/2020 9:00:13 PM	54783
Ethylbenzene	ND	0.050		mg/Kg	1	9/1/2020 9:00:13 PM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	9/1/2020 9:00:13 PM	54783
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	9/1/2020 9:00:13 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-013

Collection Date: 8/27/2020 11:00:00 AM

Client Sample ID: S-11208903-082720-CN-T7

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 4:41:50 AM	54888
Sulfate	17	7.5		mg/Kg	5	9/3/2020 4:41:50 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	21	9.7		mg/Kg	1	9/1/2020 10:51:12 AM	54769
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	9/1/2020 10:51:12 AM	54769
Surr: DNOP	92.2	30.4-154		%Rec	1	9/1/2020 10:51:12 AM	54769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2020 9:23:34 PM	54783
Surr: BFB	95.1	75.3-105		%Rec	1	9/1/2020 9:23:34 PM	54783

Lab ID: 2008G23-014

Collection Date: 8/27/2020 11:05:00 AM

Client Sample ID: S-11208903-082720-CN-V7

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	7.5		mg/Kg	5	9/3/2020 5:06:40 AM	54888
Sulfate	17	7.5		mg/Kg	5	9/3/2020 5:06:40 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2020 12:34:49 PM	54770
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2020 12:34:49 PM	54770
Surr: DNOP	103	30.4-154		%Rec	1	8/31/2020 12:34:49 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 9:47:00 PM	54783
Surr: BFB	95.1	75.3-105		%Rec	1	9/1/2020 9:47:00 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/1/2020 9:47:00 PM	54783
Toluene	ND	0.049		mg/Kg	1	9/1/2020 9:47:00 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 9:47:00 PM	54783
Xylenes, Total	ND	0.097		mg/Kg	1	9/1/2020 9:47:00 PM	54783
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	9/1/2020 9:47:00 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-015

Collection Date: 8/27/2020 11:15:00 AM

Client Sample ID: S-11208903-082720-CN-T8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	13	7.5		mg/Kg	5	9/3/2020 9:02:35 AM	54888
Sulfate	390	7.5		mg/Kg	5	9/3/2020 9:02:35 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	9/1/2020 2:26:00 PM	54770
Motor Oil Range Organics (MRO)	79	48		mg/Kg	1	9/1/2020 2:26:00 PM	54770
Surr: DNOP	87.7	30.4-154		%Rec	1	9/1/2020 2:26:00 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 10:10:28 PM	54783
Surr: BFB	93.9	75.3-105		%Rec	1	9/1/2020 10:10:28 PM	54783

Lab ID: 2008G23-016

Collection Date: 8/27/2020 11:20:00 AM

Client Sample ID: S-11208903-082720-CN-V8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/3/2020 9:27:24 AM	54888
Sulfate	89	7.5		mg/Kg	5	9/3/2020 9:27:24 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/31/2020 2:11:59 PM	54770
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2020 2:11:59 PM	54770
Surr: DNOP	93.5	30.4-154		%Rec	1	8/31/2020 2:11:59 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 10:34:00 PM	54783
Surr: BFB	95.4	75.3-105		%Rec	1	9/1/2020 10:34:00 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/1/2020 10:34:00 PM	54783
Toluene	ND	0.049		mg/Kg	1	9/1/2020 10:34:00 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 10:34:00 PM	54783
Xylenes, Total	ND	0.097		mg/Kg	1	9/1/2020 10:34:00 PM	54783
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	9/1/2020 10:34:00 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-017

Collection Date: 8/27/2020 11:40:00 AM

Client Sample ID: S-11208903-082720-CN-T9

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/3/2020 9:52:13 AM	54888
Sulfate	170	7.5		mg/Kg	5	9/3/2020 9:52:13 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/1/2020 3:13:47 PM	54770
Motor Oil Range Organics (MRO)	48	47		mg/Kg	1	9/1/2020 3:13:47 PM	54770
Surr: DNOP	95.6	30.4-154		%Rec	1	9/1/2020 3:13:47 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 10:57:32 PM	54783
Surr: BFB	93.8	75.3-105		%Rec	1	9/1/2020 10:57:32 PM	54783

Lab ID: 2008G23-018

Collection Date: 8/27/2020 11:45:00 AM

Client Sample ID: S-11208903-082720-CN-V9

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/3/2020 10:17:02 AM	54888
Sulfate	180	7.5		mg/Kg	5	9/3/2020 10:17:02 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2020 3:00:34 PM	54770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2020 3:00:34 PM	54770
Surr: DNOP	82.9	30.4-154		%Rec	1	8/31/2020 3:00:34 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 11:20:55 PM	54783
Surr: BFB	95.4	75.3-105		%Rec	1	9/1/2020 11:20:55 PM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/1/2020 11:20:55 PM	54783
Toluene	ND	0.049		mg/Kg	1	9/1/2020 11:20:55 PM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 11:20:55 PM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	9/1/2020 11:20:55 PM	54783
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/1/2020 11:20:55 PM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-019

Collection Date: 8/27/2020 11:30:00 AM

Client Sample ID: S-11208903-082720-CN-T10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/3/2020 10:41:51 AM	54888
Sulfate	ND	7.5		mg/Kg	5	9/3/2020 10:41:51 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	14	9.0		mg/Kg	1	9/1/2020 3:37:44 PM	54770
Motor Oil Range Organics (MRO)	68	45		mg/Kg	1	9/1/2020 3:37:44 PM	54770
Surr: DNOP	96.7	30.4-154		%Rec	1	9/1/2020 3:37:44 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2020 11:44:17 PM	54783
Surr: BFB	96.4	75.3-105		%Rec	1	9/1/2020 11:44:17 PM	54783

Lab ID: 2008G23-020

Collection Date: 8/27/2020 11:35:00 AM

Client Sample ID: S-11208903-082720-CN-V10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 6:57:52 AM	54888
Sulfate	ND	7.5		mg/Kg	5	9/4/2020 6:57:52 AM	54888
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	8/31/2020 3:49:12 PM	54770
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/31/2020 3:49:12 PM	54770
Surr: DNOP	54.7	30.4-154		%Rec	1	8/31/2020 3:49:12 PM	54770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2020 12:07:40 AM	54783
Surr: BFB	97.4	75.3-105		%Rec	1	9/2/2020 12:07:40 AM	54783
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/2/2020 12:07:40 AM	54783
Toluene	ND	0.049		mg/Kg	1	9/2/2020 12:07:40 AM	54783
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2020 12:07:40 AM	54783
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2020 12:07:40 AM	54783
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	9/2/2020 12:07:40 AM	54783

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-021

Collection Date: 8/27/2020 12:00:00 PM

Client Sample ID: S-11208903-082720-CN-T11

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 7:22:41 AM	54888
Sulfate	28	7.5		mg/Kg	5	9/4/2020 7:22:41 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 2:22:48 PM	54788
Surr: BFB	104	70-130		%Rec	1	9/1/2020 2:22:48 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	8/31/2020 4:13:32 PM	54770
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/31/2020 4:13:32 PM	54770
Surr: DNOP	56.4	30.4-154		%Rec	1	8/31/2020 4:13:32 PM	54770

Lab ID: 2008G23-022

Collection Date: 8/27/2020 12:05:00 PM

Client Sample ID: S-11208903-082720-CN-V11

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 7:47:29 AM	54888
Sulfate	200	7.5		mg/Kg	5	9/4/2020 7:47:29 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 3:48:32 PM	54788
Surr: BFB	104	70-130		%Rec	1	9/1/2020 3:48:32 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/31/2020 4:37:55 PM	54770
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2020 4:37:55 PM	54770
Surr: DNOP	52.2	30.4-154		%Rec	1	8/31/2020 4:37:55 PM	54770
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/1/2020 3:48:32 PM	54788
Toluene	ND	0.049		mg/Kg	1	9/1/2020 3:48:32 PM	54788
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 3:48:32 PM	54788
Xylenes, Total	ND	0.098		mg/Kg	1	9/1/2020 3:48:32 PM	54788
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	9/1/2020 3:48:32 PM	54788
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/1/2020 3:48:32 PM	54788
Surr: Dibromofluoromethane	114	70-130		%Rec	1	9/1/2020 3:48:32 PM	54788
Surr: Toluene-d8	99.6	70-130		%Rec	1	9/1/2020 3:48:32 PM	54788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-023

Collection Date: 8/27/2020 12:15:00 PM

Client Sample ID: S-11208903-082720-CN-T12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 8:12:18 AM	54888
Sulfate	980	30		mg/Kg	20	9/4/2020 8:24:43 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 5:14:09 PM	54788
Surr: BFB	99.4	70-130		%Rec	1	9/1/2020 5:14:09 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/31/2020 5:02:36 PM	54770
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2020 5:02:36 PM	54770
Surr: DNOP	43.5	30.4-154		%Rec	1	8/31/2020 5:02:36 PM	54770

Lab ID: 2008G23-024

Collection Date: 8/27/2020 12:20:00 PM

Client Sample ID: S-11208903-082720-CN-V12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 8:37:07 AM	54888
Sulfate	630	7.5		mg/Kg	5	9/4/2020 8:37:07 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2020 5:42:39 PM	54788
Surr: BFB	103	70-130		%Rec	1	9/1/2020 5:42:39 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2020 5:26:58 PM	54770
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2020 5:26:58 PM	54770
Surr: DNOP	30.5	30.4-154		%Rec	1	8/31/2020 5:26:58 PM	54770
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/1/2020 5:42:39 PM	54788
Toluene	ND	0.050		mg/Kg	1	9/1/2020 5:42:39 PM	54788
Ethylbenzene	ND	0.050		mg/Kg	1	9/1/2020 5:42:39 PM	54788
Xylenes, Total	ND	0.099		mg/Kg	1	9/1/2020 5:42:39 PM	54788
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/1/2020 5:42:39 PM	54788
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/1/2020 5:42:39 PM	54788
Surr: Dibromofluoromethane	114	70-130		%Rec	1	9/1/2020 5:42:39 PM	54788
Surr: Toluene-d8	101	70-130		%Rec	1	9/1/2020 5:42:39 PM	54788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-025

Collection Date: 8/27/2020 12:25:00 PM

Client Sample ID: S-11208903-082720-CN-T13

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	7.5		mg/Kg	5	9/4/2020 9:26:45 AM	54888
Sulfate	1600	30		mg/Kg	20	9/4/2020 9:39:09 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2020 6:11:13 PM	54788
Surr: BFB	102	70-130		%Rec	1	9/1/2020 6:11:13 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	35	9.7		mg/Kg	1	9/1/2020 4:01:36 PM	54770
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	9/1/2020 4:01:36 PM	54770
Surr: DNOP	83.6	30.4-154		%Rec	1	9/1/2020 4:01:36 PM	54770

Lab ID: 2008G23-026

Collection Date: 8/27/2020 12:30:00 PM

Client Sample ID: S-11208903-082720-CN-V13

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	30	7.5		mg/Kg	5	9/4/2020 9:51:34 AM	54888
Sulfate	180	7.5		mg/Kg	5	9/4/2020 9:51:34 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 6:39:48 PM	54788
Surr: BFB	103	70-130		%Rec	1	9/1/2020 6:39:48 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/31/2020 6:15:51 PM	54770
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/31/2020 6:15:51 PM	54770
Surr: DNOP	45.4	30.4-154		%Rec	1	8/31/2020 6:15:51 PM	54770
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/1/2020 6:39:48 PM	54788
Toluene	ND	0.049		mg/Kg	1	9/1/2020 6:39:48 PM	54788
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 6:39:48 PM	54788
Xylenes, Total	ND	0.099		mg/Kg	1	9/1/2020 6:39:48 PM	54788
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	9/1/2020 6:39:48 PM	54788
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/1/2020 6:39:48 PM	54788
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/1/2020 6:39:48 PM	54788
Surr: Toluene-d8	101	70-130		%Rec	1	9/1/2020 6:39:48 PM	54788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-027

Collection Date: 8/27/2020 12:35:00 PM

Client Sample ID: S-11208903-082720-CN-T14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	10	7.5		mg/Kg	5	9/4/2020 10:16:24 AM	54888
Sulfate	43	7.5		mg/Kg	5	9/4/2020 10:16:24 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 7:08:18 PM	54788
Surr: BFB	104	70-130		%Rec	1	9/1/2020 7:08:18 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/1/2020 4:25:31 PM	54770
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/1/2020 4:25:31 PM	54770
Surr: DNOP	86.9	30.4-154		%Rec	1	9/1/2020 4:25:31 PM	54770

Lab ID: 2008G23-028

Collection Date: 8/27/2020 12:40:00 PM

Client Sample ID: S-11208903-082720-CN-V14

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	9/4/2020 10:41:12 AM	54888
Sulfate	39	7.5		mg/Kg	5	9/4/2020 10:41:12 AM	54888
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 7:36:49 PM	54788
Surr: BFB	106	70-130		%Rec	1	9/1/2020 7:36:49 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2020 7:05:06 PM	54770
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2020 7:05:06 PM	54770
Surr: DNOP	31.6	30.4-154		%Rec	1	8/31/2020 7:05:06 PM	54770
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/1/2020 7:36:49 PM	54788
Toluene	ND	0.049		mg/Kg	1	9/1/2020 7:36:49 PM	54788
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 7:36:49 PM	54788
Xylenes, Total	ND	0.099		mg/Kg	1	9/1/2020 7:36:49 PM	54788
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/1/2020 7:36:49 PM	54788
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/1/2020 7:36:49 PM	54788
Surr: Dibromofluoromethane	114	70-130		%Rec	1	9/1/2020 7:36:49 PM	54788
Surr: Toluene-d8	98.4	70-130		%Rec	1	9/1/2020 7:36:49 PM	54788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2008G23

Date Reported: 9/10/2020

CLIENT: GHD
Project: Jal Landfarm

Lab Order: 2008G23

Lab ID: 2008G23-029

Collection Date: 8/27/2020 11:50:00 AM

Client Sample ID: S-11208903-082720-CN-T15

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	7.5		mg/Kg	5	9/8/2020 9:10:00 PM	55006
Sulfate	4800	300		mg/Kg	200	9/9/2020 1:35:13 PM	55006
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 8:05:22 PM	54788
Surr: BFB	103	70-130		%Rec	1	9/1/2020 8:05:22 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	110	46		mg/Kg	5	9/1/2020 1:38:15 PM	54770
Motor Oil Range Organics (MRO)	580	230		mg/Kg	5	9/1/2020 1:38:15 PM	54770
Surr: DNOP	84.7	30.4-154		%Rec	5	9/1/2020 1:38:15 PM	54770

Lab ID: 2008G23-030

Collection Date: 8/27/2020 11:55:00 AM

Client Sample ID: S-11208903-082720-CN-V15

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	7.5		mg/Kg	5	9/8/2020 9:34:42 PM	55006
Sulfate	690	30		mg/Kg	20	9/8/2020 9:47:02 PM	55006
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 8:33:55 PM	54788
Surr: BFB	104	70-130		%Rec	1	9/1/2020 8:33:55 PM	54788
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2020 7:54:07 PM	54770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2020 7:54:07 PM	54770
Surr: DNOP	60.4	30.4-154		%Rec	1	8/31/2020 7:54:07 PM	54770
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/1/2020 8:33:55 PM	54788
Toluene	ND	0.049		mg/Kg	1	9/1/2020 8:33:55 PM	54788
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 8:33:55 PM	54788
Xylenes, Total	ND	0.098		mg/Kg	1	9/1/2020 8:33:55 PM	54788
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	1	9/1/2020 8:33:55 PM	54788
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/1/2020 8:33:55 PM	54788
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/1/2020 8:33:55 PM	54788
Surr: Toluene-d8	95.6	70-130		%Rec	1	9/1/2020 8:33:55 PM	54788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: MB-54886	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 54886	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/2/2020	SeqNo: 2501564 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5
Sulfate	ND	1.5

Sample ID: LCS-54886	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 54886	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/2/2020	SeqNo: 2501565 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.9 90 110
Sulfate	29	1.5 30.00 0 96.0 90 110

Sample ID: MB-54888	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 54888	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/3/2020	SeqNo: 2501606 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5
Sulfate	ND	1.5

Sample ID: LCS-54888	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 54888	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/3/2020	SeqNo: 2501607 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.3 90 110
Sulfate	29	1.5 30.00 0 95.3 90 110

Sample ID: 2008G23-009AMS	SampType: ms	TestCode: EPA Method 300.0: Anions
Client ID: S-11208903-082720-	Batch ID: 54888	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/3/2020	SeqNo: 2501609 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	7.5 15.00 0 95.8 47.2 156
Sulfate	29	7.5 30.00 0 97.6 54.5 144

Sample ID: 2008G23-009AMSD	SampType: msd	TestCode: EPA Method 300.0: Anions
Client ID: S-11208903-082720-	Batch ID: 54888	RunNo: 71554
Prep Date: 9/2/2020	Analysis Date: 9/3/2020	SeqNo: 2501610 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2008G23-009AMSD		SampType: msd		TestCode: EPA Method 300.0: Anions						
Client ID: S-11208903-082720-		Batch ID: 54888		RunNo: 71554						
Prep Date: 9/2/2020		Analysis Date: 9/3/2020		SeqNo: 2501610		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	7.5	15.00	0	95.1	47.2	156	0.675	20	
Sulfate	29	7.5	30.00	0	98.0	54.5	144	0.399	20	

Sample ID: 2008G23-011AMS		SampType: ms		TestCode: EPA Method 300.0: Anions						
Client ID: S-11208903-082720-		Batch ID: 54888		RunNo: 71554						
Prep Date: 9/2/2020		Analysis Date: 9/3/2020		SeqNo: 2501617		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	19	7.5	15.00	0	126	47.2	156			
Sulfate	69	7.5	30.00	50.75	61.6	54.5	144			

Sample ID: 2008G23-011AMSD		SampType: msd		TestCode: EPA Method 300.0: Anions						
Client ID: S-11208903-082720-		Batch ID: 54888		RunNo: 71554						
Prep Date: 9/2/2020		Analysis Date: 9/3/2020		SeqNo: 2501618		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	0	105	47.2	156	17.7	20	
Sulfate	72	7.5	30.00	50.75	69.9	54.5	144	3.51	20	

Sample ID: MB-55006		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 55006		RunNo: 71685						
Prep Date: 9/8/2020		Analysis Date: 9/8/2020		SeqNo: 2506856		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sulfate	ND	1.5								

Sample ID: LCS-55006		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 55006		RunNo: 71685						
Prep Date: 9/8/2020		Analysis Date: 9/8/2020		SeqNo: 2506857		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			
Sulfate	29	1.5	30.00	0	98.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: MB-54770	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54770	RunNo: 71494								
Prep Date: 8/28/2020	Analysis Date: 8/31/2020	SeqNo: 2496848 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	30.4	154			

Sample ID: LCS-54770	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54770	RunNo: 71494								
Prep Date: 8/28/2020	Analysis Date: 8/31/2020	SeqNo: 2496851 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	70	130			
Surr: DNOP	4.9		5.000		98.3	30.4	154			

Sample ID: 2008G23-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-11208903-082720-	Batch ID: 54770	RunNo: 71496								
Prep Date: 8/28/2020	Analysis Date: 8/31/2020	SeqNo: 2496901 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	48.17	0	100	47.4	136			
Surr: DNOP	4.3		4.817		88.5	30.4	154			

Sample ID: 2008G23-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-11208903-082720-	Batch ID: 54770	RunNo: 71496								
Prep Date: 8/28/2020	Analysis Date: 8/31/2020	SeqNo: 2496902 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.50	0	103	47.4	136	3.38	43.4	
Surr: DNOP	4.4		4.850		90.8	30.4	154	0	0	

Sample ID: MB-54769	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54769	RunNo: 71495								
Prep Date: 8/28/2020	Analysis Date: 8/31/2020	SeqNo: 2496912 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	30.4	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: LCS-54769	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 54769			RunNo: 71495						
Prep Date: 8/28/2020	Analysis Date: 8/31/2020			SeqNo: 2496916	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	77.6	70	130			
Surr: DNOP	5.0		5.000		100	30.4	154			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: mb-54783	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497421 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	75.3	105			

Sample ID: lcs-54783	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497422 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.0	72.5	106			
Surr: BFB	1100		1000		114	75.3	105			S

Sample ID: 2008g23-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-11208903-082720-	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.51	0	91.8	61.3	114			
Surr: BFB	1000		980.4		105	75.3	105			S

Sample ID: 2008g23-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-11208903-082720-	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497426 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.98	0	84.3	61.3	114	6.66	20	
Surr: BFB	1000		999.0		105	75.3	105	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: mb-54783	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497437	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: LCS-54783	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497438	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: 2008g23-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-11208903-082720-	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497440	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.099	0.9881	0	97.5	78.1	153			
Benzene	0.85	0.025	0.9881	0	85.6	76.3	120			
Toluene	0.88	0.049	0.9881	0	89.1	78.5	120			
Ethylbenzene	0.90	0.049	0.9881	0	91.2	78.1	124			
Xylenes, Total	2.7	0.099	2.964	0	91.5	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9881		106	80	120			

Sample ID: 2008g23-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-11208903-082720-	Batch ID: 54783	RunNo: 71512								
Prep Date: 8/29/2020	Analysis Date: 8/31/2020	SeqNo: 2497441	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9960	0	88.1	76.3	120	3.59	20	
Toluene	0.90	0.050	0.9960	0	90.6	78.5	120	2.55	20	
Ethylbenzene	0.91	0.050	0.9960	0	91.6	78.1	124	1.33	20	
Xylenes, Total	2.8	0.10	2.988	0	92.1	79.3	125	1.50	20	
Surr: 4-Bromofluorobenzene	1.0		0.9960		99.9	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: Ics-54788	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 54788	RunNo: 71550								
Prep Date: 8/30/2020	Analysis Date: 9/1/2020	SeqNo: 2499255	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.0	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.1	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.49		0.5000		97.7	70	130			

Sample ID: mb-54788	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54788	RunNo: 71550								
Prep Date: 8/30/2020	Analysis Date: 9/1/2020	SeqNo: 2499256	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			

Sample ID: 2008g23-021ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-11208903-082720-	Batch ID: 54788	RunNo: 71550								
Prep Date: 8/30/2020	Analysis Date: 9/1/2020	SeqNo: 2499258	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9990	0	102	71.1	115			
Toluene	1.0	0.050	0.9990	0	105	79.6	132			
Ethylbenzene	1.0	0.050	0.9990	0	104	83.8	134			
Xylenes, Total	3.3	0.10	2.997	0	111	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.46		0.4995		93.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4995		99.5	70	130			
Surr: Dibromofluoromethane	0.56		0.4995		111	70	130			
Surr: Toluene-d8	0.49		0.4995		97.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: 2008g23-021amsd		SampType: MSD4		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S-11208903-082720-		Batch ID: 54788		RunNo: 71550						
Prep Date: 8/30/2020		Analysis Date: 9/1/2020		SeqNo: 2499259		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9891	0	95.1	71.1	115	8.32	20	
Toluene	0.98	0.049	0.9891	0	99.2	79.6	132	6.31	20	
Ethylbenzene	0.96	0.049	0.9891	0	97.0	83.8	134	8.07	20	
Xylenes, Total	3.0	0.099	2.967	0	99.8	82.4	132	11.6	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4946		94.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.51		0.4946		103	70	130	0	0	
Surr: Dibromofluoromethane	0.53		0.4946		107	70	130	0	0	
Surr: Toluene-d8	0.48		0.4946		96.7	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G23

10-Sep-20

Client: GHD
Project: Jal Landfarm

Sample ID: lcs-54788	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 54788			RunNo: 71550						
Prep Date: 8/30/2020	Analysis Date: 9/1/2020			SeqNo: 2499281		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.8	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID: mb-54788	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 54788			RunNo: 71550						
Prep Date: 8/30/2020	Analysis Date: 9/1/2020			SeqNo: 2499282		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		107	70	130			

Sample ID: 2008g23-022ams	SampType: MS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: S-11208903-082720-	Batch ID: 54788			RunNo: 71550						
Prep Date: 8/30/2020	Analysis Date: 9/1/2020			SeqNo: 2499285		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.61	0	85.3	49.2	122			
Surr: BFB	520		492.1		106	70	130			

Sample ID: 2008g23-022amsd	SampType: MSD			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: S-11208903-082720-	Batch ID: 54788			RunNo: 71550						
Prep Date: 8/30/2020	Analysis Date: 9/1/2020			SeqNo: 2499286		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.73	0	104	49.2	122	20.2	20	R
Surr: BFB	530		494.6		107	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Sample Log-In Check List

Client Name: **GHD**

Work Order Number: **2008G23**

RcptNo: 1

Received By: **Juan Rojas**

8/28/2020 8:00:00 AM

Juan Rojas

Completed By: **Leah Baca**

8/28/2020 11:07:13 AM

Leah Baca

Reviewed By: **DAD 8/28/20**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SPA 8/28/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	4.9	Good				
3	1.3	Good				

Chain-of-Custody Record

Client: GH D

Turn-Around Time:

☒ Standard
 ☐ Rush

Mailing Address:

Mailing Address:

email or Fax#: Christine.Mathews@ghd.com

☐ Standard ☐ Level 4 (Full Validation)☐ NELAC ☐ Other _____[illegible][illegible]

0935 11/11/2019

0946	5-11208403-082720-(N-T2
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0.410	5-11-2010	0.000000
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Chlorophyll			
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1020 54128903-882720-CN-T4

1000	5-1120803082720- (N)-V 7
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	Open
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9m) 91-W-att 40-30H2L15

70-NJ-021240-50180711-G	2011
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5-27-10	1515	OK
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15

If necessary samples submitted to Hall Environmental may be subject to

CHD

Sd/ Landform

1120011

Subject Manager:

1

☐ Level 4 (Full Validation)

Sampler: 

On Ice:

of Coolers:

Date	Time	Matrix	Sample Name
8-24-20	1225	5	5-11208903-082420-CN-T13
	1230		5-11208903-082420-CN-T13
	1235		5-11208903-082420-CN-T14
	1240		5-11208903-082420-CN-T14
	1150		5-11208903-082420-CN-T15
	1155		5-11208903-082420-CN-T15

155 5-11200903-032420-(N)-15

Received by: Via:

Received by: Via:

[illegible]
$$0.6 - 0 = 0.6$$

110-0-011.01

9.9-0-911

$$1.3 - 0 = 1.3$$

(10/17) 60m to 8/18/2000

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.