District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCH1834660473
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Fasken Oil and Ranch, Ltd OGRID					
Contact Name: Aaron Pachlhofer Contact		Contact Te	Celephone: 432-687-1777		
Contact email: aaronp@forl.com Incident		Incident #	(assigned by OCD)		
Contact mail	ing address:	6101 Holiday Hill	Road, Midland,	TX 79707	
			Location	of Release So	ource
Latitude 33	.031060°		(NAD 83 in dec	Longitude cimal degrees to 5 decim	-103.180635° ial places)
Site Name De	enton No. 2 S	SWD well		Site Type:	SWD wellhead
Date Release	Discovered	11/5/18		API# 30-02	25-05270
Unit Letter	Section	Township	Range	Coun	ty
Ι	10	15S	37E	Lea	
Crude Oil	Material	(s) Released (Select all	Nature and	Name: <u>Darr Angell</u> I Volume of I calculations or specific	justification for the volumes provided below)
		Volume Released			Volume Recovered (bbls)
X Produced	Water	Volume Released			Volume Recovered (bbls) 15
			on of total dissolvater >10,000 mg		X Yes □ No
Condensa	te	Volume Released		<i>y</i> 2 •	Volume Recovered (bbls)
☐ Natural G	Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)			
Cause of Release: Release caused by external corrosion to injection line. Leak began while Fasken personnel were at lunch, and was discovered upon return to the lease. Estimated period that elapsed between leak start and leak discovery is 15 to 30 minutes. Vacuum truck and equipment were on lease for other purposes so produced water was picked up before there was time for it to be absorbed by the soil.					

Received by OCD: 1/17/2020 7:14:22 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	NCH1834660473
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
Yes X No		
If YES, was immediate no	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
Notice was given via voic	cemail to Olivia Yu at 11:58 MST on 11/6/1	8. A second voicemail was left at 1:55 MST on 11/6/18
	Initial Re	esponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area ha	as been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or c	likes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
<u> </u>	d above have <u>not</u> been undertaken, explain v	• • • •
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial e	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are	required to report and/or file certain release notif	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: <u>Aaron Pac</u>	chlhofer	Title: Environmental Coordinator
Signature:	-	Date: 11/8/2018
email: aaronp@forl.com		Telephone: 432-687-1777
OCD Only		
Received by:		Date:

Received by OCD: 1/17/2020 7:14:22 AM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 3 of 3	<i>50</i>
Incident ID	NCH1834660473	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	70 (ft bgs)
Did this release impact groundwater or surface water?	☐Yes 🏻 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐Yes 🏿 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐Yes 🏿 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐Yes 🏻 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐Yes 🏻 No
Are the lateral extents of the release overlying a subsurface mine?	☐Yes 🏻 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐Yes 🏻 No
Are the lateral extents of the release within a 100-year floodplain?	☐Yes 🏻 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐Yes 🏻 No
August a community of the control of	dical automto of!l

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Ch	naracterization Report Checklist: Each of the following items must be included in the report.
	, , , ,
X	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
X	Field data
X	Data table of soil contaminant concentration data
X	Depth to water determination
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
	Topographic/Aerial maps
\mathbf{X}	Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/17/2020 7:14:22 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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_	us	_	7	-	7	v

	2 00,00 1 0 1
Incident ID	NCH1834660473
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: <u>Aaron Pachlhofer</u>	Title: Environmental Coordinator
Signature:	_Date: <u>9/6/19</u>
email: <u>aaronp@forl.com</u>	Telephone: 432-687-1777
OCD Only	
Received by:	Date:

Received by OCD: 1/17/2020 7:14:22 AM State of New Mexico Oil Conservation Division Page 5

Incident ID NCH1834660473 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Aaron Pachlhofer</u> Title: <u>Environmental Coordinator</u>
Signature: Date:
email: <u>aaronp@forl.com</u> Telephone: <u>432-687-1777</u>
OCD Only
Received by:Date:
Approved Deferral Approved Deferral Approved
Signature: Date:

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NCH1834660473
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD Distributed 2 days prior to liner inspection)	rict office
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releas may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liab their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compleany other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, recla vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Aaron Pachlhoter Title: Environmental Coordinator Date: 1/15/2020 Telephone: 432-687-1777	es which ility should , human iance with im, and re-
OCD Only	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately inverted at a contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	



6101 Holiday Hill Road Midland, TX 79707 (432) 687-1777 (432) 687-1570 (FAX)

January 15, 2020

Robert Hamlet Environmental Specialist Oil Conservation Division, District 2 811 South Francis Street Artesia, New Mexico 88210

Work Plan: 1RP-5270– Denton No.2 SWD Wellhead spill

Mr. Hamlet,

On November 4, 2018 a spill occurred at the Fasken Oil and Ranch (Fasken) Denton No.2 SWD well when a hole occurred in the injection line due to corrosion. The well is location at battery is located at 33.031060°, -103.180635°. During the spill, an estimated 50 barrels of produced water was released and no crude oil was released. 30 barrels of produced water was recovered according to Fasken operations personnel. The spill was confined within to the well pad and a lease road. No pasture was affected.

Potential Receptors

According to the New Mexico State Engineer's Office, there five water wells within 1/2 mile of the SWD well. Information from the State Engineers Office show that the depth to water in L-01739 POD1, L-02317, L-02268, and L-14299 is deeper than 50 feet below ground surface. Copies are included as an attachment. No depth to water information is available for well L-00058, so it is no attachments are included for this well. Please also note that Fasken and Plains All American have monitoring wells further to the west approximately 0.75 mile away and further. These wells have a consistent depth to water more than 70 feet below ground surface. Data for these wells is available if required by the OCD.

Other potential receptors: There is no nearby surface water. There are no homes or occupied structures within 1 mile of the release. There are no other potential receptors such as a lakebed, sinkhole, playa lake, continually flowing watercourse, spring, fresh water well, or subsurface mine that have been identified within the distances specified on form C-141.

According to NMAC 19.15.29.12, Table 1, the chloride limit is 10,000 mg/kg

Delineation Sampling

On January 30, 2019, five trenches were opened with a backhoe and three samples from each trench were collected: surface, one foot, and the top of caliche. The surface of the caliche at this location varies from 2 to three below the surface. Laboratory analysis of the samples shows that chloride concentrations are high in the surface samples at TT-1, TT-2, and TT-3. All other sample concentrations are below 2,000 mg/kg chloride. A site plan showing these sample locations is included as an attachment.

On July 18, 2019, three borings were advanced with a hollow stem auger mobile drilling machine. Samples were continuously collected by hollow stem auger in two-foot increments. Four samples from each boring were submitted for laboratory analysis. The maximum concentration for these samples was 1,410 mg/kg chloride in B-2 at 0-2'. All other concentrations were low, and the deepest samples collect from each boring were 320 (B-1), 128 (B-2), and 112 (B-3) mg/kg chloride. A site plan showing these sample locations is included as an attachment.

Additional Delineation and Removal of Pad Material

On October 31, 2019, SESI INC of Hobbs, New Mexico performed additional delineation of the release on behalf of Fasken Oil and Ranch. Additional delineation was performed at the request of OCD. TT-3 and TT-5 were re-sampled below the caliche in order to delineate at these locations. Please note that the depths these samples were mislabeled on the laboratory chain of custody by the SESI technician: the field notes from the technician indicate that samples were obtained after he 'busted out the rocks'. The depth to caliche at the location was previously recorded at approximately three feet below ground surface. Also note that the TT-3 data correlates very well with shallow sample results from adjacent B-3 that was previously advanced. Three new delineation locations were also opened with a backhoe and sampled at the request of the OCD: TT-6, TT-7, and TT-8. These locations were sampled at the surface and at 1 foot below ground surface. All sample locations were field screened prior laboratory analysis. All field screen results were less than 600 mg/kg, according to SESI personnel. Laboratory results for all samples collected ranged from 'not detected' to 370 mg/kg.

On October 31, 2019 SESI also removed approximately 4 inches of the surface pad material around the well that was above the 19.15.29.12 Table 1 limits in the areas of TT1-, TT-2, and TT-3. Approximately 20 cubic yards of material was removed, and stockpiled on plastic pending disposal. The removal of the material did not require replacement of pad material so no new material was imported and backfilled onto the pad.

Following removal of pad material, the surface at TT-1, TT-2, and TT-3 were field screened and resampled. Please note that these sample locations are now labeled SP-1, SP-2, and SP-3. Field screening results of these sample locations were less than 600 mg/kg. Laboratory results ranged from 980 to 1,800 mg/kg chloride; well below the Table 1 limits in 19.15.29.12 for groundwater 51 to 100 feet below ground surface.

A summary table and laboratory reports are included.

RECCOMENDATION

Fasken recommends closing this release. All concentrations are below the Table 1 limits for groundwater 51 to 100 feet below ground surface.

If there are any questions or comments, please do not hesitate to contact Aaron Pachlhofer at the letterhead address or 432-687-1777 or aaronp@forl.com.

Thank You,

Aaron Pachlhofer, P.G. Environmental Coordinator

1RP-5270 Denton No.2 SWD Sample Analysis

Location	Date	Cl- (mg/kg)
TT-1 Surface	1/30/2019	30000
TT-1 1'	1/30/2019	1810
TT-1 2'	1/30/2019	880
TT-2 Surface	1/30/2019	41200
TT-2 1'	1/30/2019	1090
TT-2A 1'	1/30/2019	128
TT-2 2'	1/30/2019	608
TT-3 Surface	1/30/2019	25600
TT-3 1'	1/30/2019	1730
TT-4 Surface	1/30/2019	128
TT-4 1'	1/30/2019	112
TT-4 2'	1/30/2019	272
TT-5 Surface	1/30/2019	656
TT-5 1'	1/30/2019	112
TT-5 3'	1/30/2019	1720
B-1 0-2'	7/18/2019	544
B-1 5-7'	7/18/2019	80
B-1 10-12'	7/18/2019	1070
B-1 15-17'	7/18/2019	608
B-1 20-22'	7/18/2019	320
B-2 0-2'	7/18/2019	1410
B-2 5-7'	7/18/2019	368
B-2 10-12'	7/18/2019	256
B-2 15-17'	7/18/2019	192
B-2' 20-22'	7/18/2019	128
B-3 0-2'	7/18/2019	448
B-3 5-7'	7/18/2019	96
B-3 10-12'	7/18/2019	128
B-3 15-17'	7/18/2019	272
B-3 20-22'	7/18/2019	112
SP-1 Surface	10/31/2019	980
SP-2 Surface	10/31/2019	1800
SP-3 Surface	10/31/2019	1800
TT-3 1.5	10/31/2019	270
TT-5 1.5	10/31/2019	580
TT-6 Surface	10/31/2019	ND
TT-6 1'	10/31/2019	370
TT-7 Surface	10/31/2019	ND
TT-7 1'	10/31/2019	330
TT-8 Surface	10/31/2019	ND
TT-8 1'	10/31/2019	260





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

L 01739 POD1

2 2 2 10 15S 37E

669893 3657001*

9

Driller License: 46

Driller Company: ABBOTT BROTHERS COMPANY

02/12/1953

110 feet

Driller Name: MURRELL ABBOTT

Drill Start Date: 01/20/1953

Drill Finish Date: 01/21/1953

Plug Date: 09/24/1954

Shallow

Log File Date: 02/02/1953

Pipe Discharge Size:

PCW Rcv Date:

Depth Well:

Estimated Yield:

Pump Type: Casing Size:

ipe Discharge Oize.

Estimated Field

Source:

Depth Water: 55 feet

Water Bearing Stratifications:

Top Bottom Description

55 110 Sandstone/Gravel/Conglomerate



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

L 02268

10 15S 37E

669808 3656097*



Driller License: 46

Driller Company: ABBOTT BROTHERS COMPANY

Driller Name: ABBOTT, MURRELL

Drill Start Date: 06/20/1953

Drill Finish Date: 06/21/1953

Plug Date:

04/30/1956

Log File Date:

04/16/1954 PCW Rcv Date: 12/16/1953 Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

55 feet

Water Bearing Stratifications:

Top Bottom Description

55 110 Sandstone/Gravel/Conglomerate



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

L 02317

11 15S 37E

670197 3656908*

Driller License: 46

Driller Company: ABBOTT BROTHERS COMPANY

Driller Name:

MURRELL ABBOTT

Drill Start Date: 08/12/1953

08/20/1953

Drill Finish Date:

08/13/1953

08/20/1953

Plug Date:

Source:

Shallow

Log File Date: **Pump Type:**

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

PCW Rcv Date:

110 feet

Depth Water:

65 feet

Water Bearing Stratifications:

Top Bottom Description

65

110 Sandstone/Gravel/Conglomerate



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: L 14299

Subbasin: L

Cross Reference:-

Primary Purpose: STK

72-12-1 LIVESTOCK WATERING

Primary Status:

PMT

PERMIT

Total Acres:

Subfile:

Header: -

Total Diversion:

Cause/Case: -

Owner:

ANGELL #2 FLP

Contact:

JOHN NORRIS

Documents on File

Status

From/

Trn# Doc File/Act

2 Transaction Desc.

То

Acres Diversion Consumptive

2017-07-07

PMT LOG L 14299 POD1

Т

Current Points of Diversion

QQQ

(NAD83 UTM in meters)

Other Location Desc

POD Number L 14299 POD1 Well Tag Source 6416 4 Sec Tws Rng Shallow 3 3 3 11 15S 37E

670136 3655563









February 04, 2019

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: FAS-19-001

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/30/2019

Reported: Project Name: 02/04/2019 FAS-19-001

Project Number: Project Location:

SWD #2

Sampling Date:

01/30/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

NOT GIVEN

Sample ID: TT-1 SURFACE (H900346-01)

Chloride,	SM4500CI-B
-----------	------------

Result 30000 Analyzed By: AC

Analyte

Reporting Limit 16.0

Reporting Limit

Analyzed 02/02/2019

Analyzed

Method Blank ND

BS 416 % Recovery 104

True Value OC 400

RPD Oualifier

3.77

Sample ID: TT-1, 1' (H900346-02)

Analyte

mg/kg

Analyzed By: AC

BS

% Recovery

True Value QC

RPD Qualifier

Chloride

Chloride

Result 1810

16.0 02/02/2019 Method Blank ND

416

104

400

3.77

Sample ID: TT-1, 2' (H900346-03)

Chloride, SM4500Cl-B

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Chloride 880

Reporting Limit Analyzed 02/02/2019 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77

Qualifier

Sample ID: TT-2 SURFACE (H900346-04)

Analyzed By: AC

Analyte Result Chloride 41200

Reporting Limit 16.0

16.0

Analyzed 02/02/2019 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and In no event shall Cardinal be liable for incidental or consequential damages, any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Kreene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/30/2019

Sampling Date:

01/30/2019

Reported:

02/04/2019 FAS-19-001

Sampling Type:

Soil

Project Name: Project Number:

SWD #2

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

Analyte

Analyte

Analyte

NOT GIVEN

Sample ID: TT-2, 1' (H900346-05)

mg/kg

Analyzed By: AC

Method Blank

BS % Recovery True Value QC

Qualifier

RPD

3.77

0.00

Chloride

Result 1090

Result

02/02/2019 16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

ND

416

104

400

Sample ID: TT-2A, 1' (H900346-06)

Chlavida	SM4500CI-B
Chioriae,	3M43UULI-B

mg/kg

Analyzed By: AC

BS

416

% Recovery

Chloride

128

Analyzed 02/02/2019

Analyzed

Analyzed

ND

Method Blank

104

400

True Value QC

RPD Qualifier

Sample ID: TT-2 A, 2' (H900346-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS

% Recovery

True Value QC

RPD Qualifier

Chloride

Result 608

02/02/2019 16.0

Method Blank ND

Method Blank

ND

416

104

400

0.00

Sample ID: TT-3 SURFACE (H900346-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

BS

% Recovery

True Value QC

RPD

Chloride

Chloride

Result 25600

Result

1730

16.0 02/02/2019

416

104

% Recovery

104

400

True Value QC

400

0.00

Qualifier

Analyte

Analyte

mg/kg

Analyzed By: AC

Method Blank

ND

Sample ID: TT-3, 1' (H900346-09)

Chloride, SM4500Cl-B

Analyzed

02/02/2019

BS

416

RPD

0.00

Qualifier

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*=Accredited Analyte

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



Analytical Results For:

Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/30/2019

Reported: 02/04/2019
Project Name: FAS-19-001
Project Number: SWD #2

Project Location: NOT GIVEN

Sampling Date: 01/30/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-4 SURFACE (H900346-10)

Chloride, SM4500Cl-B	mg	g/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/02/2019	ND	416	104	400	0.00	

Sample ID: TT-4, 1' (H900346-11)

Chloride, SM4500Cl-B	mg,	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/02/2019	ND	416	104	400	0.00	

Sample ID: TT-4, 2' (H900346-12)

Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/02/2019	ND	416	104	400	0.00	

Sample ID: TT-5 SURFACE (H900346-13)

Chloride, SM4500CI-B	mg,	/kg	g Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/02/2019	ND	416	104	400	0.00	

Sample ID: TT-5 , 1' (H900346-14)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/02/2019	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/30/2019

Sampling Date:

01/30/2019

Reported:

02/04/2019

Sampling Type:

Soil

Project Name:

FAS-19-001

Sampling Condition:

Cool & Intact

Project Number: Project Location: SWD #2 NOT GIVEN Sample Received By:

Jodi Henson

Sample ID: TT-5, 3' (H900346-15)

Chloride,	SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result

Reporting Limit

Analyzed

Method Blank

True Value QC

RPD

0.00

Qualifier

Chloride

1720

16.0 02/02/2019 ND

BS 416

104

% Recovery

400

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 Ea	101 East Marland, Hobbs, NM 60240			TSHIOLD BEOLIEST	
	(575)	(575) 393-2326 FAX (575) 393-2476	11.55	BILL TO	ANALTUIO REGOTO:	
Cor	Company Name: Sa	Safety and Environmental Solutions		P.O. #:		_
Pro	Project Manager: E	Bob Allen		Company: Same		
Ad	Address: 703 Ea	1	0000	1		
2	Hobbs	State: NM Z	40			
City.	#	Fax #:	575 393-4388	Address:		
13	Priorie #. TAS	Project Owner:				
Pr	C	ンジャン		State: Zip:		
Pr	Project Name:	7 + 00		Phone #:		_
Pr	Project Location:	+		40		
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	PLEASE NOTE: Liability and Da	PLEASE NOTE: Liability and Damages. Cardinal's stability and cleant's exclusive remedy for any claim arising whether based in contract or usu, summer and the properties of the applicable please NOTE: Liability and Damages. Cardinal's stability and cleant's exclusive remedy for any claim arising whether based in contract or usu, summer and the properties of the profession of the applicable please.	or any claim arising whether based in co be deemed waived unless made in writin	Cardinal's lability and citem's exclusive remedy for any daim arising whether based in contract or unit point of cardinal within 30 days after completion cardinals lability or charge cardinal within 30 days after completion cardinals within 20 days after cardinals within 20 days after cardinals within 20 days after cardina	plicable	
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	service. In no event snam caronics by affiliates or successors arising out of or related to the performa	ut of or related to the performance of services hereunder to	Received By:	Fax Result:	☐ Yes 🗓	
	Relinquished By:		2 July	REMARKS:	mail: Jzonasoza@scoi-Milon	NM. Con
1	nen	Date	Received By:	(4)		
_	Relinquished By:	1/30/1	1001 J	the war		ř
		10.0	Sample Condition	ondition CHECKED BY:		
	Delivered By:	ered By: Wrote City St. Lips - Bus - Other: 3.80	try Pres Pres	Yes		
		-				



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST	
Company Name: Safety and Environmental Solutions	PO #:		
Project Manager: Bob Allen			
Address: 703 East Clinton, PO Box 1613			
Hobbs State:	40		
1e#: 575 397-0510 Fax#:	575 393-4388 Address:		
Project #: FM5 - 19 - OC Project Owner:	ord,		
Project Name: SWD #2	State: Lip.		
Project Location:	Pnone #:		
Sampler Name: ROS MIXM	Fax #:	SAMPLING	
FOR LAB USE ONLY	MAIRIA		
Lab I.D. Sample I.D.	RAB OR (C)OMF ONTAINERS OUNDWATER ASTEWATER UDGE THER: DID/BASE: E / COOL THER:	Ch/O	
11 12 471,	G W S C C S C C C C C C C C C C C C C C C	1050	
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	X	D 1105	
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service. In no event shall Cardinal be Bable for incidental or consequential diamings, involving minings, produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services hereunder by Cardinal requireless of whether such claim is based upon any of the above stated reasons or one manual produced to the performance of services here and the services here are such as the services have been such as the services here are such as the services have been such as the	y Cardinal, regardless of whether such daim is based upon any of the above V Received By:	Phone #: Proposition of the pro	
Relinquished By: Relinquished By: Relinquished By: Times: Times: Obs.	A BOSE	Ness.	The
Relinquished By:	2		
Delivered By: (Circle/One)			
Sampler - UPS - Bus - Other: 5.7 C/ HY	T No No No		



July 24, 2019

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: FAS-19-001

Enclosed are the results of analyses for samples received by the laboratory on 07/19/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/19/2019

Sampling Date:

07/18/2019

Reported:

07/24/2019

Sampling Type:

Soil

Project Name: Project Number: FAS-19-001 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

LOVINGTON

Sample ID: B - 1, SWD, 0-2' (H902501-01)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte

Reporting Limit Result

Method Blank

BS

True Value OC

Oualifier

Chloride

544

16.0 07/23/2019 ND

432

400

RPD

3.77

0.00

Sample ID: B - 1, SWD, 5-7' (H902501-02)

Chloride, SM4500Cl-B

Analyte

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Chloride

Result 80.0

Result

1070

Result

Analyzed 07/23/2019

Analyzed

Method Blank ND

BS 416 % Recovery 104

% Recovery

108

True Value QC 400

RPD Qualifier

Sample ID: B - 1, SWD, 10-12' (H902501-03)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte

Reporting Limit Analyzed 16.0 07/23/2019 Method Blank ND

BS 416 % Recovery

104

True Value QC

RPD Qualifier

Chloride

Sample ID: B - 1, SWD, 15-17' (H902501-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

400

RPD

Qualifier

Chloride

608

07/23/2019

Analyzed

ND

Method Blank

BS 416 % Recovery 104

True Value QC 400

0.00

0.00

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Celeg & Kreene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/19/2019

Sampling Date:

07/18/2019

Reported:

07/24/2019

Sampling Type:

Soil

Project Name: Project Number: FAS-19-001 NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

Analyte

Analyte

LOVINGTON

Sample ID: B - 1, SWD, 20-22' (H902501-05)

Analyzed By: AC

Analyzed

Analyzed

Analyzed

Analyzed

Analyzed

07/23/2019

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Result 320

07/23/2019 16.0

Reporting Limit

Reporting Limit

ND

BS 416

104

400

RPD 0.00

Sample ID: B - 2, SWD, 0-2' (H902501-06)

Chloride, SM4500Cl-B

Analyzed By: AC

% Recovery

True Value QC

Chloride

Chloride

Chloride

Result 1410

07/23/2019 16.0

Method Blank ND

BS 416

104

400

RPD Qualifier 0.00

Sample ID: B - 2, SWD, 5-7' (H902501-07)

Chloride, SM4500Cl-B

Reporting Limit

16.0

Analyzed By: AC

Analyte Result Reporting Limit 368 07/23/2019 16.0

Method Blank

ND

BS

416

True Value QC

RPD 0.00

Qualifier

Sample ID: B - 2, SWD, 10-12' (H902501-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

% Recovery

104

True Value QC

RPD

Qualifier

Analyte

256

Result

07/23/2019

Method Blank ND

416

BS

416

104

400

400

400

0.00

Sample ID: B - 2, SWD, 15-17' (H902501-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Chloride 192 16.0

Method Blank BS

ND

% Recovery

104

True Value QC RPD

0.00

Qualifier

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Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Analyzed

Analyzed

07/23/2019

Analyzed

07/23/2019

Received:

07/19/2019

Sampling Date:

07/18/2019

Reported:

07/24/2019 FAS-19-001 Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

Analyte

Analyte

LOVINGTON

Sample ID: B - 2, SWD, 20-22' (H902501-10)

Analyzed By: AC

% Recovery

104

True Value QC

400

Qualifier

Chloride

Chloride

Result 128

Result

448

07/23/2019 16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Method Blank ND

BS 416

416

RPD

0.00

Sample ID: B - 3, SWD, 0-2' (H902501-11)

Chloride, SM4500Cl-B

Analyzed By: AC

Method Blank

ND

ND

BS % Recovery True Value QC

400

0.00

RPD Qualifier

Sample ID: B - 3, SWD, 5-7' (H902501-12)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte Result Chloride 96.0

Method Blank BS % Recovery

104

104

True Value QC

RPD

Qualifier

Chloride, SM4500Cl-B

Analyzed By: AC

416

400

0.00

Sample ID: B - 3, SWD, 10-12' (H902501-13)

Chloride

Chloride

Analyte

mg/kg

Result

128

272

Analyzed

07/23/2019

Analyzed

07/23/2019

Method Blank

ND

Method Blank

ND

BS 416

BS

416

% Recovery

104

% Recovery

104

RPD True Value QC

Qualifier

Sample ID: B - 3, SWD, 15-17' (H902501-14)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

True Value QC

400

400

RPD

0.00

0.00

Qualifier

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Celeg & Kreene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/19/2019

Sampling Date:

07/18/2019

Reported:

07/24/2019

Sampling Type:

Soil

Project Name:

FAS-19-001 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

LOVINGTON

Sample ID: B - 3, SWD, 20-22' (H902501-15)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte

Result Reporting Limit

BS 416 % Recovery

True Value QC

Qualifier

Chloride

112 16.0

Analyzed 07/23/2019 Method Blank ND

104

400

RPD

0.00

Cardinal Laboratories

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Sampler - UPS - Bus - Other:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 (577)	Imple I.D. Imple I.D. Imple I.D. Imple I.D. Imple I.D.	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	P.O. #: Company: Same Address: City: State: Zip: Phone #: Fax #: DATE DATE OTHER: DATE	TIME Chlorides	ANALYSIS REQUEST
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PLEASE NOTE: Liability and Dame analyses. All claims including those service. In no event shall Cardinal I	PLEASE NOTE: Uability and Damages, Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or fort, shall'56 innited to the amount paid by the client for the pricable analyses. All claims including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. In the writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	laim arising whether based in contract med waived unless made in writing and hout limitation, business interruptions, I	or tort, shall the limited to the amount paid I received by Cardinal within 30 days after loss of use, or loss of profits incurred by cit	by the client for the completion of the applicable ent, its subsidiaries.	
Relinquished By: Relinquished By: Relinquished By:	Reflinguished By: Reflinguished By: Date:	Received By: Received By:	Make	t:	Add'l Phone #: Add'l Fax #:
	Time:	-	ion CHECKED BY:		
Delivered By: (C	(Circle One) 3.6 c	Cool Intact			,

Relinquished By:

Time;

Fax Result: REMARKS:

□ Yes Yes

Add'I Fax #:

Add'l Phone #:

No No

Phone Result:

Date:

0

Date:

Received By:

Time:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

3.60

Sample Condition
Cool Intact
Tes Tes
No No

CHECKED BY: (Initials)



(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TRA

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be flable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished Sampler Name: Project Location: Project Name: City: Project Manager: Company Name: Project #: Phone #: Address: FOR LAB USE ONLY Lab I.D. FAS-19-001 575 397-0510 w Hobbs 703 East Clinton, PO Box 1613 W ない Safety and Environmental Solutions Bob Allen W Sample I.D. T 0 7 T Project Owner: Fax #: State: NM 200 to-at 15-1 0 0 575 393-4388 Zip: Received By: (G)RAB OR (C)OMP. 5 # CONTAINERS 88240 GROUNDWATER WASTEWATER SOIL MATRIX OIL SLUDGE OTHER: Fax #: State: City: Attn: P.O. #: Phone #: Address: Company: ACID/BASE: PRESERV ICE / COOL BILLIO OTHER: Same Zip: DATE S SAMPLING 500 100 10次 150 125 1542 マチン TIME 000 ANALYSIS REQUEST



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

November 08, 2019

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Faskin SWD 2 OrderNo.: 1911010

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/1/2019 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1911010

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 Surface

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 9:30:00 AM

 Lab ID:
 1911010-001
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	980	59	mg/Kg	20	11/5/2019 7:08:16 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	41	9.4	mg/Kg	1	11/6/2019 8:55:32 PM	48573
Motor Oil Range Organics (MRO)	89	47	mg/Kg	1	11/6/2019 8:55:32 PM	48573
Surr: DNOP	101	70-130	%Rec	1	11/6/2019 8:55:32 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/5/2019 3:34:54 AM	48548
Surr: BFB	98.5	77.4-118	%Rec	1	11/5/2019 3:34:54 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	11/5/2019 3:34:54 AM	48548
Toluene	ND	0.046	mg/Kg	1	11/5/2019 3:34:54 AM	48548
Ethylbenzene	ND	0.046	mg/Kg	1	11/5/2019 3:34:54 AM	48548
Xylenes, Total	ND	0.092	mg/Kg	1	11/5/2019 3:34:54 AM	48548
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/5/2019 3:34:54 AM	48548

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 Quanitative 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

Page 1 of 15

Analytical Report Lab Order 1911010

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 Surface

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 9:45:00 AM

 Lab ID:
 1911010-002
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	1800	60	mg/Kg	20	11/5/2019 7:20:36 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	73	9.7	mg/Kg	1	11/6/2019 9:19:37 PM	48573
Motor Oil Range Organics (MRO)	150	48	mg/Kg	1	11/6/2019 9:19:37 PM	48573
Surr: DNOP	107	70-130	%Rec	1	11/6/2019 9:19:37 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/5/2019 3:58:28 AM	48548
Surr: BFB	93.1	77.4-118	%Rec	1	11/5/2019 3:58:28 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 3:58:28 AM	48548
Toluene	ND	0.047	mg/Kg	1	11/5/2019 3:58:28 AM	48548
Ethylbenzene	ND	0.047	mg/Kg	1	11/5/2019 3:58:28 AM	48548
Xylenes, Total	ND	0.095	mg/Kg	1	11/5/2019 3:58:28 AM	48548
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	11/5/2019 3:58:28 AM	48548

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 Quanitative Limit

- 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

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Analytical Report Lab Order 1911010

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Faskin SWD 2 **Project:**

1911010-003 Lab ID:

Collection Date: 10/31/2019 10:05:00 AM Received Date: 11/1/2019 9:00:00 AM

Client Sample ID: SP-3 Surface

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	1800	60	mg/Kg	20	11/5/2019 7:32:57 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	73	9.6	mg/Kg	1	11/6/2019 9:43:31 PM	48573
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	11/6/2019 9:43:31 PM	48573
Surr: DNOP	104	70-130	%Rec	1	11/6/2019 9:43:31 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/5/2019 4:22:01 AM	48548
Surr: BFB	93.2	77.4-118	%Rec	1	11/5/2019 4:22:01 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 4:22:01 AM	48548
Toluene	ND	0.048	mg/Kg	1	11/5/2019 4:22:01 AM	48548
Ethylbenzene	ND	0.048	mg/Kg	1	11/5/2019 4:22:01 AM	48548
Xylenes, Total	ND	0.096	mg/Kg	1	11/5/2019 4:22:01 AM	48548
Surr: 4-Bromofluorobenzene	98.3	80-120	%Rec	1	11/5/2019 4:22:01 AM	48548

Matrix: SOIL

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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-3 1.5Ft

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 12:25:00 PM

 Lab ID:
 1911010-004
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	270	60		mg/Kg	20	11/5/2019 7:45:17 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	170	99		mg/Kg	10	11/5/2019 7:51:08 PM	48573
Motor Oil Range Organics (MRO)	550	500		mg/Kg	10	11/5/2019 7:51:08 PM	48573
Surr: DNOP	0	70-130	S	%Rec	10	11/5/2019 7:51:08 PM	48573
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2019 1:41:06 AM	48548
Surr: BFB	93.7	77.4-118		%Rec	1	11/5/2019 1:41:06 AM	48548
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	11/5/2019 1:41:06 AM	48548
Toluene	ND	0.049		mg/Kg	1	11/5/2019 1:41:06 AM	48548
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2019 1:41:06 AM	48548
Xylenes, Total	ND	0.099		mg/Kg	1	11/5/2019 1:41:06 AM	48548
Surr: 4-Bromofluorobenzene	87.1	80-120		%Rec	1	11/5/2019 1:41:06 AM	48548

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 Quanitative Limit

- 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-5 1.5Ft

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 12:45:00 PM

 Lab ID:
 1911010-005
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	580	60	mg/Kg	20	11/5/2019 7:57:37 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	37	9.6	mg/Kg	1	11/6/2019 10:07:32 PM	48573
Motor Oil Range Organics (MRO)	220	48	mg/Kg	1	11/6/2019 10:07:32 PM	48573
Surr: DNOP	122	70-130	%Rec	1	11/6/2019 10:07:32 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/5/2019 2:04:01 AM	48548
Surr: BFB	95.6	77.4-118	%Rec	1	11/5/2019 2:04:01 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 2:04:01 AM	48548
Toluene	ND	0.047	mg/Kg	1	11/5/2019 2:04:01 AM	48548
Ethylbenzene	ND	0.047	mg/Kg	1	11/5/2019 2:04:01 AM	48548
Xylenes, Total	ND	0.095	mg/Kg	1	11/5/2019 2:04:01 AM	48548
Surr: 4-Bromofluorobenzene	89.5	80-120	%Rec	1	11/5/2019 2:04:01 AM	48548

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 Quanitative Limit

- 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-6 Surface

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 1:30:00 PM

 Lab ID:
 1911010-006
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	11/5/2019 8:09:58 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/5/2019 8:09:36 PM	48573
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/5/2019 8:09:36 PM	48573
Surr: DNOP	85.1	70-130	%Rec	1	11/5/2019 8:09:36 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/5/2019 2:26:56 AM	48548
Surr: BFB	96.2	77.4-118	%Rec	1	11/5/2019 2:26:56 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 2:26:56 AM	48548
Toluene	ND	0.047	mg/Kg	1	11/5/2019 2:26:56 AM	48548
Ethylbenzene	ND	0.047	mg/Kg	1	11/5/2019 2:26:56 AM	48548
Xylenes, Total	ND	0.095	mg/Kg	1	11/5/2019 2:26:56 AM	48548
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	1	11/5/2019 2:26:56 AM	48548

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 Quanitative 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Faskin SWD 2

Lab ID: 1911010-007 Matrix

Matrix: SOIL

Collection Date: 10/31/2019 1:35:00 PM **Received Date:** 11/1/2019 9:00:00 AM

Client Sample ID: TT-6 1Ft

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	370	60	mg/Kg	20	11/5/2019 8:22:19 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/5/2019 8:18:48 PM	48573
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/5/2019 8:18:48 PM	48573
Surr: DNOP	87.1	70-130	%Rec	1	11/5/2019 8:18:48 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/5/2019 2:49:51 AM	48548
Surr: BFB	97.8	77.4-118	%Rec	1	11/5/2019 2:49:51 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 2:49:51 AM	48548
Toluene	ND	0.049	mg/Kg	1	11/5/2019 2:49:51 AM	48548
Ethylbenzene	ND	0.049	mg/Kg	1	11/5/2019 2:49:51 AM	48548
Xylenes, Total	ND	0.097	mg/Kg	1	11/5/2019 2:49:51 AM	48548
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	11/5/2019 2:49:51 AM	48548

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 Quanitative 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

porting Limit Page 7 of 15

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-7 Surface

Project: Faskin SWD 2
 Collection Date: 10/31/2019 1:45:00 PM

 Lab ID: 1911010-008
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	11/5/2019 8:59:21 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	25	9.4	mg/Kg	1	11/6/2019 10:55:27 PM	48573
Motor Oil Range Organics (MRO)	90	47	mg/Kg	1	11/6/2019 10:55:27 PM	48573
Surr: DNOP	92.3	70-130	%Rec	1	11/6/2019 10:55:27 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/5/2019 3:12:43 AM	48548
Surr: BFB	93.3	77.4-118	%Rec	1	11/5/2019 3:12:43 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 3:12:43 AM	48548
Toluene	ND	0.047	mg/Kg	1	11/5/2019 3:12:43 AM	48548
Ethylbenzene	ND	0.047	mg/Kg	1	11/5/2019 3:12:43 AM	48548
Xylenes, Total	ND	0.095	mg/Kg	1	11/5/2019 3:12:43 AM	48548
Surr: 4-Bromofluorobenzene	87.6	80-120	%Rec	1	11/5/2019 3:12:43 AM	48548

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 Quanitative 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-7 1Ft

Project: Faskin SWD 2
 Collection Date: 10/31/2019 1:50:00 PM

 Lab ID: 1911010-009
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	330	60	mg/Kg	20	11/5/2019 9:11:42 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	15	9.3	mg/Kg	1	11/6/2019 11:19:22 PM	48573
Motor Oil Range Organics (MRO)	47	46	mg/Kg	1	11/6/2019 11:19:22 PM	48573
Surr: DNOP	92.0	70-130	%Rec	1	11/6/2019 11:19:22 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/5/2019 3:35:34 AM	48548
Surr: BFB	95.2	77.4-118	%Rec	1	11/5/2019 3:35:34 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	11/5/2019 3:35:34 AM	48548
Toluene	ND	0.049	mg/Kg	1	11/5/2019 3:35:34 AM	48548
Ethylbenzene	ND	0.049	mg/Kg	1	11/5/2019 3:35:34 AM	48548
Xylenes, Total	ND	0.099	mg/Kg	1	11/5/2019 3:35:34 AM	48548
Surr: 4-Bromofluorobenzene	90.0	80-120	%Rec	1	11/5/2019 3:35:34 AM	48548

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 Quanitative Limit

- 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-8 Surface

Project: Faskin SWD 2
 Collection Date: 10/31/2019 1:55:00 PM

 Lab ID: 1911010-010
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	11/5/2019 9:24:02 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	15	9.4	mg/Kg	1	11/6/2019 11:43:23 PM	48573
Motor Oil Range Organics (MRO)	63	47	mg/Kg	1	11/6/2019 11:43:23 PM	48573
Surr: DNOP	99.4	70-130	%Rec	1	11/6/2019 11:43:23 PM	48573
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/5/2019 9:59:08 AM	48548
Surr: BFB	101	77.4-118	%Rec	1	11/5/2019 9:59:08 AM	48548
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	11/5/2019 9:59:08 AM	48548
Toluene	ND	0.048	mg/Kg	1	11/5/2019 9:59:08 AM	48548
Ethylbenzene	ND	0.048	mg/Kg	1	11/5/2019 9:59:08 AM	48548
Xylenes, Total	ND	0.095	mg/Kg	1	11/5/2019 9:59:08 AM	48548
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	11/5/2019 9:59:08 AM	48548

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 Quanitative Limit

- 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

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Client Sample ID: TT-8 1Ft

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

 Project:
 Faskin SWD 2
 Collection Date: 10/31/2019 2:05:00 PM

 Lab ID:
 1911010-011
 Matrix: SOIL
 Received Date: 11/1/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	260	60		mg/Kg	20	11/5/2019 9:36:23 PM	48597
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	160	96		mg/Kg	10	11/5/2019 8:55:32 PM	48573
Motor Oil Range Organics (MRO)	560	480		mg/Kg	10	11/5/2019 8:55:32 PM	48573
Surr: DNOP	0	70-130	S	%Rec	10	11/5/2019 8:55:32 PM	48573
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2019 10:22:53 AM	48548
Surr: BFB	97.6	77.4-118		%Rec	1	11/5/2019 10:22:53 AM	48548
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	11/5/2019 10:22:53 AM	48548
Toluene	ND	0.048		mg/Kg	1	11/5/2019 10:22:53 AM	48548
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2019 10:22:53 AM	48548
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2019 10:22:53 AM	48548
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	11/5/2019 10:22:53 AM	48548

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 Quanitative Limit

- 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911010**

08-Nov-19

Client: Safety & Environmental Solutions

Project: Faskin SWD 2

Sample ID: MB-48597 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48597 RunNo: 64258

Prep Date: 11/5/2019 Analysis Date: 11/5/2019 SeqNo: 2199039 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48597 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48597 RunNo: 64258

Prep Date: 11/5/2019 Analysis Date: 11/5/2019 SeqNo: 2199040 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.3 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 Quanitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911010 08-Nov-19

Client:

Safety & Environmental Solutions

ND

7.1

50

10.00

Project: Faskin	SWD 2	
Sample ID: LCS-48544	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 48544	RunNo: 64236
Prep Date: 11/1/2019	Analysis Date: 11/5/2019	SeqNo: 2198276 Units: %Rec
Analyte	Result PQL SPK value	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.00	00 91.7 70 130
Sample ID: MB-48544	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 48544	RunNo: 64236
Prep Date: 11/1/2019	Analysis Date: 11/5/2019	SeqNo: 2198277 Units: %Rec
Analyte	Result PQL SPK value	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.0	00 99.5 70 130
Sample ID: LCS-48573	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Sample ID: LCS-48573 Client ID: LCSS	SampType: LCS Batch ID: 48573	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 64236
	1 71	
Client ID: LCSS	Batch ID: 48573 Analysis Date: 11/5/2019	RunNo: 64236
Client ID: LCSS Prep Date: 11/4/2019 Analyte Diesel Range Organics (DRO)	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK values 10 50.0	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 00 0 90.7 63.9 124
Client ID: LCSS Prep Date: 11/4/2019 Analyte	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK value	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 00 0 90.7 63.9 124
Client ID: LCSS Prep Date: 11/4/2019 Analyte Diesel Range Organics (DRO)	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK values 10 50.0	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 00 0 90.7 63.9 124
Client ID: LCSS Prep Date: 11/4/2019 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK values 45	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 00 0 90.7 63.9 124 00 56.6 70 130 S
Client ID: LCSS Prep Date: 11/4/2019 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-48573	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK values 10 50.0 2.8 5.00 SampType: MBLK	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg Un
Client ID: LCSS Prep Date: 11/4/2019 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-48573 Client ID: PBS	Batch ID: 48573 Analysis Date: 11/5/2019 Result PQL SPK value 45 10 50.0 2.8 5.00 SampType: MBLK Batch ID: 48573 Analysis Date: 11/5/2019	RunNo: 64236 SeqNo: 2199139 Units: mg/Kg Le SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 00 0 90.7 63.9 124 00 56.6 70 130 S TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 64236

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

Surr: DNOP

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

71.1

70

130

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911010**

08-Nov-19

Client: Safety & Environmental Solutions

Project: Faskin SWD 2

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G64209 RunNo: 64209

Prep Date: Analysis Date: 11/4/2019 SeqNo: 2197088 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 102 77.4 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G64209 RunNo: 64209

Prep Date: Analysis Date: 11/4/2019 SeqNo: 2197089 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 114 77.4 118

Sample ID: MB-48548 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48548 RunNo: 64208

Prep Date: 11/1/2019 Analysis Date: 11/4/2019 SeqNo: 2197177 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 930 1000 93.3 77.4 118

Sample ID: LCS-48548 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48548 RunNo: 64208

Prep Date: 11/1/2019 Analysis Date: 11/4/2019 SeqNo: 2197179 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 91.2
 80
 120

 Surr: BFB
 1100
 1000
 106
 77.4
 118

Sample ID: MB-48579 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48579 RunNo: 64244

Prep Date: 11/4/2019 Analysis Date: 11/5/2019 SeqNo: 2198527 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 103 77.4 118

Sample ID: LCS-48579 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48579 RunNo: 64244

Prep Date: 11/4/2019 Analysis Date: 11/5/2019 SeqNo: 2198528 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 106 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 Quanitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911010**

08-Nov-19

Client: Safety & Environmental Solutions

Project: Faskin SWD 2

Sample ID: MB-48548	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batcl	h ID: 48	548	F	RunNo: 64208					
Prep Date: 11/1/2019	Analysis D	Date: 11	1/4/2019	5	SeqNo: 2	197220	Units: mg/K	g		
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	0.97		1.000		97.0	80	120			
Sample ID: LCS-48548	Sampl	vpe: LC	:S	Tes	tCode: El	PA Method	8021B: Volat	iles		

Sample 1D. LC3-46346	Janipi	уре. с		163	icode. Ei	A Melilou	OUZ ID. VUIA	liies		
Client ID: LCSS	Batcl	h ID: 48	548	F	RunNo: 6	4208				
Prep Date: 11/1/2019	Analysis D	Date: 11	1/4/2019	9	SeqNo: 2	197221	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Sample ID: MB-48579	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 48	579	F	RunNo: 6	4244				
Prep Date: 11/4/2019	Date: 11/4/2019 Analysis Date: 11/5/2019						SeqNo: 2198574 Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: LCS-48579	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 48	579	F	RunNo: 64	4244				
Prep Date: 11/4/2019	Analysis D	ate: 1	1/5/2019	S	SeqNo: 2	198575	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1 1		1 000		100	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 Quanitative 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

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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: Safety Env Solutions	Work Order Nun	nber: 1911010	RcptNo: 1			
Received By: Juan Raias	11/1/2019 9:00:00	АМ				
Completed By: Erin Melendrez	11/1/2019 10:36:0	1 AM	unas			
Reviewed By: DAD 11/1/19			, ,			
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present		
2. How was the sample delivered?		Courier				
<u>Log In</u>						
3. Was an attempt made to cool the samples?)	Yes 🗸	No 🗌	NA 🗆		
4. Were all samples received at a temperature	of >0° 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	5)?	Yes 🗸	No 🗌			
Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗸	No 🗌			
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗌		
9. VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗸			
0. Were any sample containers received broke	en?	Yes	No 🗹	# of preserved		
1. Does paperwork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:		
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of	V []	Na 🗆	(<2 or >12 Adjusted?	unless noted)		
3. Is it clear what analyses were requested?	Custody?	Yes ✓ Yes ✓	No □	/ tujusteu :		
4. Were all holding times able to be met?	Yes ✓ Yes ✓	No □	Checked by:	MALLER		
(If no, notify customer for authorization.)		res 💌	NO L	Shecked by.	0~11/1/1	
pecial Handling (if applicable)						
5. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹		
Person Notified:	Date	·	The second state of the second second			
By Whom:	Via:	eMail P	hone Fax	☐ In Person		
Regarding:				The state of the s		
Client Instructions:				And the second contract of the second contrac		
16. Additional remarks:						
7. Cooler Information						
CONTRACTOR AND ADDRESS OF THE PROPERTY OF THE	eal Intact Seal No	Seal Date	Signed By			
1 2.6 Good Yes	3					

Received by OCD: 1/17/2020	7:14:22 AM		Page 50 of 50
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	8	o-contracted data will be clearly notated on the analytical report.
Tel. 50	8081 Pesticides/8082 PCB's		Any suk
4 -	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO)		ossibility
nd Time: And Bush me: Arskin S- 19-001	Project Manager: Sampler: Sampler: On Ice: # of Coolers: Cooler Temp(including CF): 7.8-0.2=2-6 Container Type and # Type Tall No.	-002 -003 -005 -005 -005 -009 -009 -009 -009	Via: 10/3/19 4000000000000000000000000000000000000
Turn-Around Time: Standard Project Name: 7 Shown Standard Project #:	Project Manager Sampler: On Ice: # of Coolers: Cooler Temp(mot Type and # Ty	Received by	Received by
Chain-of-Custody Record Client: Select + Conting Mening Address: 703 C. Chiman Habbs N.W. Syzto Phone #: 575-397-0510	email or Fax#: QA/QC Package: CAStandard Accreditation:	1275 S S S S S S S S S S S S S S S S S S S	