



Devon Energy
333 West Sheridan Avenue
Oklahoma City, OK 73102-5015

405 235 3611 Phone
www.devonenergy.com

March 28, 2021

RE: Administrative Order number 1RF-6

Victoria Venegas
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 909-0269
Victoria.Venegas@state.nm.us

Dear Ms. Venegas:

This letter is in reference to Administrative Order number 1RF-6. We are requesting closure of the treated water pond at this time per 19.15.34.14 CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS. Enclosed you will find the Form C-147, a sampling map, and analysis for a 5-point composite sample.

Sincerely,

A handwritten signature in black ink that reads "Amanda T. Davis". The script is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Amanda T. Davis
Environmental Professional

6488 Seven Rivers Highway
Artesia, New Mexico 88210
(575) 748-0176 Direct
(505) 350-1336 Mobile

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-147
Revised April 3, 2017

Recycling Facility Only

Type of action: ☐ Permit ☐ Registration ☐ Modification ☒ Closure ☐ Other (explain) _____

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

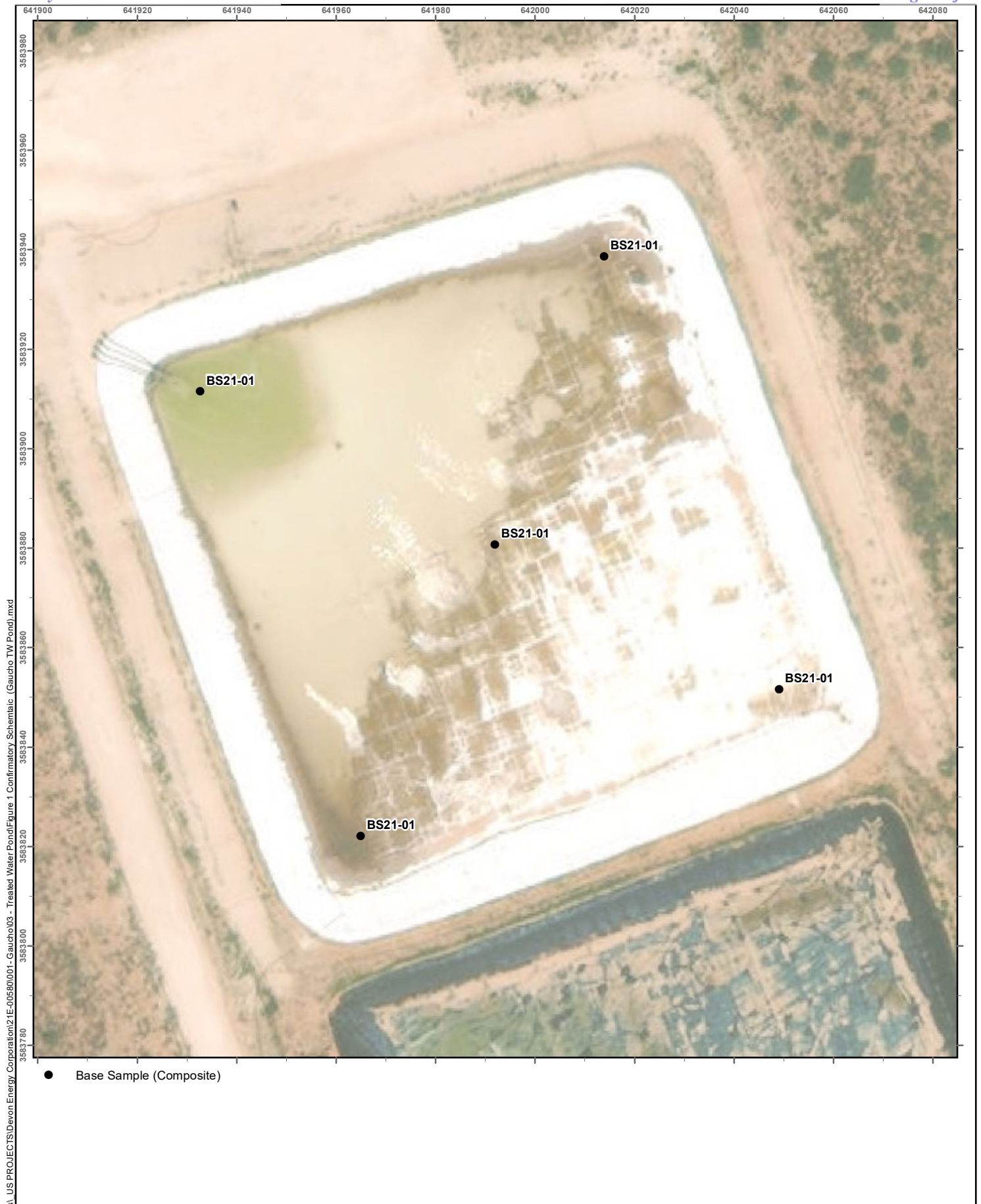
1.
Operator: Devon Energy (For multiple operators attach page with information) OGRID #: 6137
Address: 333 West Sheridan, Oklahoma City, Oklahoma 73102- 8260
Facility or well name (include API# if associated with a well): North Gaucho Containment and Recycling Facility
OCD Permit Number: 1RF-6 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NW/4 NE/4 Section 20 Township 22S Range 34E County: Lea County
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 32.38081 Longitude -103.49033 NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☒ Plugging *
**The re-use of produced water may NOT be used until fresh water zones are cased and cemented*
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*
☒ Fluid Storage
☐ Above ground tanks ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☒ Other explain Recycling Containment
☒ **Closure Report (required within 60 days of closure completion):** ☒ Recycling Facility Closure Completion Date: 3/15/2021

3.
Variances:
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.
Check the below box only if a variance is requested:
☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.
If a Variance is requested, it must be approved prior to implementation.

4.
Operator Application Certification:
I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.
Name (Print): Amanda Trujillo Davis Title: Environmental Professional
Signature: Amanda T. Davis Date: 3/18/2021
e-mail address: amanda.davis@dvn.com Telephone: 575-748-0176

5.
OCD Representative Signature: _____ **Approval/Registration Date:** _____
Title: _____ **OCD Permit Number:** _____
☐ OCD Conditions _____
☐ Additional OCD Conditions on Attachment



0 12.5 25 50 75 Feet
Map Center:
Lat/Long: 32.382912, -103.490496



Confirmatory Schematic
Gaucho Treated Water Pond

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Notes: Background image provided by ESRI, 2019.

VERSATILITY. EXPERTISE.

Client Name: Devon Energy
 Site Name: Gaucho Treated Water Pond
 Project #: 21E-00580
 Lab Report: 2103688

Table 2. Confirmatory Sampling Laboratory Results									
Sample Description			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable				
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01	0	March 9, 2021	-	-	-	-	-	-	-
									460

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level

Analytical Report

Lab Order 2103688

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-01

Project: Gaucho Treated Frac Pond

Collection Date: 3/9/2021 1:30:00 PM

Lab ID: 2103688-001

Matrix: MEOH (SOIL)

Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	460	61		mg/Kg	20	3/12/2021 5:52:52 PM

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		

Page 1 of 0

Client Name: Devon Energy
 Site Name: Gaucha Treated Water Pond
 Project #: 21E-00580
 Lab Reports: N/A

Table 2. Characterization Sampling Field Screening and Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics (Electrical Conductivity)	Volatile		Extractable					Chloride
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS21-03	0-4	March 9, 2021	-	-	45	-	-	-	-	-	-	-	-
WS21-03	4-8	March 9, 2021	-	-	298	-	-	-	-	-	-	-	-
WS21-04	0-4	March 9, 2021	-	-	164	-	-	-	-	-	-	-	-
WS21-04	4-8	March 9, 2021	-	-	175	-	-	-	-	-	-	-	-
BH21-07	8	March 9, 2021	-	-	12,550	-	-	-	-	-	-	-	-

"-" - Not applicable/assessed

Bold and grey shaded indicates approaching, or exceedance outside of, NM OCD closure criteria

Bold and green shaded indicates a re-sample of areas previously exceeding NM OCD closure criteria



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

March 15, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Frac Pond

OrderNo.: 2103688

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/12/2021 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2103688

Date Reported: 3/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-01

Project: Gaucho Treated Frac Pond

Collection Date: 3/9/2021 1:30:00 PM

Lab ID: 2103688-001

Matrix: MEOH (SOIL)

Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	460	61		mg/Kg	20	3/12/2021 5:52:52 PM	58702

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		

Page 1 of 2

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103688

15-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: MB-58702	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58702	RunNo: 75898								
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: 2686278	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

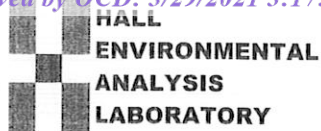
Sample ID: LCS-58702	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58702	RunNo: 75898								
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: 2686280	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	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

Page 2 of 2



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

Sample Log-In Check List

Client Name: **Devon Energy**Work Order Number: **2103688**

RcptNo: 1

Received By: **Sean Livingston**

3/12/2021 4:40:00 PM

Completed By: **Desiree Dominguez**

3/12/2021 4:42:50 PM

Reviewed By: *SGC 3/12/21*

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. 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: *DAD 3/12/21*

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	5.6	Good				



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

March 22, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Frac Pond

OrderNo.: 2103688

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/12/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 15, 2021.

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", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2103688

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-01

Project: Gaucho Treated Frac Pond

Collection Date: 3/9/2021 1:30:00 PM

Lab ID: 2103688-001

Matrix: MEOH (SOIL)

Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	460	61		mg/Kg	20	3/12/2021 5:52:52 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/18/2021 8:05:05 AM	58794
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 8:05:05 AM	58794
Surr: DNOP	85.8	70-130		%Rec	1	3/18/2021 8:05:05 AM	58794
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2021 12:15:36 AM	58791
Surr: BFB	99.5	75.3-105		%Rec	1	3/20/2021 12:15:36 AM	58791
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/20/2021 12:15:36 AM	58791
Toluene	ND	0.049		mg/Kg	1	3/20/2021 12:15:36 AM	58791
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2021 12:15:36 AM	58791
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2021 12:15:36 AM	58791
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	3/20/2021 12:15:36 AM	58791

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#: 2103688

22-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: MB-58702	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58702	RunNo: 75898								
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: 2686278	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58702	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58702	RunNo: 75898								
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: 2686280	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	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

Page 2 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103688

22-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: MB-58794	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691573 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	9.2		10.00		91.5	70	130			

Sample ID: LCS-58794	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691575 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.1	68.9	141			
Surr: DNOP	4.2		5.000		83.3	70	130			

Sample ID: 2103688-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS21-01	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691599 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.98	0	95.2	15	184			
Surr: DNOP	3.9		4.798		82.1	70	130			

Sample ID: 2103688-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS21-01	Batch ID: 58794	RunNo: 76025								
Prep Date: 3/17/2021	Analysis Date: 3/18/2021	SeqNo: 2691601 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	49.07	0	92.4	15	184	0.747	23.9	
Surr: DNOP	3.9		4.907		79.4	70	130	0	0	

Sample ID: MB-58798	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58798	RunNo: 76064								
Prep Date: 3/18/2021	Analysis Date: 3/19/2021	SeqNo: 2693658 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.0	70	130			

Sample ID: LCS-58798	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58798	RunNo: 76064								
Prep Date: 3/18/2021	Analysis Date: 3/19/2021	SeqNo: 2693659 Units: %Rec								
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

Page 3 of 6

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2103688
22-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: LCS-58798	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58798	RunNo: 76064								
Prep Date: 3/18/2021	Analysis Date: 3/19/2021	SeqNo: 2693659	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.8	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#: 2103688

22-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693889		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.7	75.3	105			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693890		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	75.3	105			S

Sample ID: mb-58791	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693921		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	980		1000		97.5	75.3	105			

Sample ID: lcs-58791	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693922		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	97.4	80	120			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: 2103688-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-01	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/20/2021			SeqNo: 2693924		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	96.7	61.3	114			
Surr: BFB	1100		1000		112	75.3	105			S

Sample ID: 2103688-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-01	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/20/2021			SeqNo: 2693925		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.04	0	93.7	61.3	114	7.07	20	
Surr: BFB	1100		961.5		112	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#: 2103688

22-Mar-21

Client: Devon Energy
Project: Gaucho Treated Frac Pond

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693940		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693941		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: mb-58791	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693972		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	0.98		1.000		98.2	80	120			

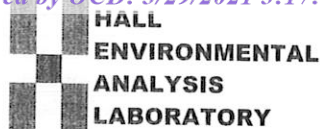
Sample ID: LCS-58791	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693973		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		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 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

Page 6 of 6



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

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2103688

RcptNo: 1

Received By: Sean Livingston

3/12/2021 4:40:00 PM

Completed By: Desiree Dominguez

3/12/2021 4:42:50 PM

Reviewed By: SGL 3/12/21

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. 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: DAD 3/12/21

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	5.6	Good				

Chain-of-Custody Record

Client:

Client: *DeVito*

Mailing Address:

on 12/12

Phone #:

email or Fax#:

QA/QC Package:

☐ StandardAccreditation: ☐ A7 Con

☐ NELAC ☐ Other

☐ EDD (Type)

<p> $\frac{1}{2}$ </p>	<p> $\frac{1}{2}$ </p>
-----------------------------------	-----------------------------------

Date _____

210

Matrix

150

Sample Name

11

Date:	Time:
-------	-------

Relinquished by:

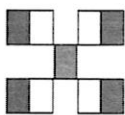
Date: _____

12

Relinquished by:

22

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.

[illegible]

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

marks: DIRECT BILL DEVON
CC: MONICA PEPPE AND DENNIS
WILLIAMS
W/O # 213987801



Hall Environmental
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
Website: clients.hallenvironmental.com

INVOICE

Invoice#: 2103688

Date: 3/15/2021

INVOICE TO: ATTN: ACCOUNTS PAYABLE

Devon Energy
Amanda Davis
6488 Seven Rivers Highway
Artesia, NM 88210

Acct. Code:

Work Order: 2103688
Date Received: 3/12/2021
Priority: Rush
Phone: (575) 748-0176
Fax:
Project: Gaucho Treated Frac Pond
PO: 13987801/DVNART22/21E-00580-0
CaseNo:
Submitted By: Devon Energy
Monica Peppin

Item Description	Matrix	Remarks	Qty	Unit Price	Total
EPA Method 300.0: Anions	MeOH (Soil)		1	45.00	45.00

Sub Total: \$45.00
Misc. Charges: \$0.00
Surcharge: 0.00%
Tax: 7.875%

INVOICE Total: \$48.54

Pre-Paid Amount: \$0.00

Total Payable Amount: \$48.54**TERMS:**

All invoices are due and payable net 30 days from receipt.

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

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☐ Permit ☐ Registration
☐ Modification ☐ Extension
☒ Closure ☐ Other (explain) _____

* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

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

1.
Operator: DEVON ENERGY (For multiple operators attach page with information) OGRID #: _____
Address: 333 W. SHERIDAN ST. OKLAHOMA CITY, OK 73102-8260
Facility or well name (include API# if associated with a well): NORTH GAUCHO CONTAINMENT & RECYCLING FACILITY
OCD Permit Number: IRF-6 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NW/4 NE/4 Section 20 Township 22S Range 34E County: LEA COUNTY
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 32.38081 Longitude -103.49033 NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☒ Plugging*
*The re-use of produced water may NOT be used until fresh water zones are cased and cemented
☐ Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.
☒ Fluid Storage
☐ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ **Closure Report (required within 60 days of closure completion):** ☒ Recycling Facility Closure Completion Date: 3/15/2021

3.
☒ **Recycling Containment:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 32.38081 Longitude -103.49033 NAD83
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☒ Liner type: Thickness 60 mil ☒ LLDPE ☒ HDPE ☐ PVC ☒ Other 30 MIL (SECONDARY)
☒ String-Reinforced
Liner Seams: ☒ Welded ☒ Factory ☒ Other FIELD WELDS Volume: 304,000 bbl Dimensions: L 415' x W 415' x D 15'
☒ Recycling Containment Closure Completion Date: 3/15/2021

4.

Bonding:

☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)

☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ _____ (work on these facilities cannot commence until bonding amounts are approved)

☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☒ Alternate. Please specify GAME FENCE

6.

Signs:

☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; written approval obtained from the municipality

☐ Yes ☒ No
☐ NA

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

☐ Yes ☒ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

☐ Yes ☒ No

Within a 100-year floodplain. FEMA map

☐ Yes ☒ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

☐ Yes ☒ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

☐ Yes ☒ No

9.

Recycling Facility and/or Containment Checklist:

Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements.
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☒ Closure Plan - based upon the appropriate requirements.
- ☐ Site Specific Groundwater Data -
- ☐ Siting Criteria Compliance Demonstrations -
- ☒ Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10.

Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): ROBERT W. RAUP II Title: ENVIRONMENTAL SUPERVISOR
Signature: Robert W. Raup II Date: 6/22/2021
e-mail address: Bob.Raup@dvm.com Telephone: 701-310-5194

11.

OCD Representative Signature: Victoria Venegas Approval Date: 06/23/2021

Title: Environmental Specialist OCD Permit Number: 1RF-6 Facility ID fTO1527936646

- ☐ OCD Conditions
- ☐ Additional OCD Conditions on Attachment

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, April 22, 2021 2:40 PM
To: Inscore, Josh; Davis, Amanda; Hernandez, Emily, EMNRD
Cc: Bratcher, Mike, EMNRD; 'rmann@slo.state.nm.us'; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us
Subject: RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

1. Devon must submit all copies of 1RF-6 - North Gaucho Containment and Recycling Facility's leak detection system inspection logs. Operators should include the detailed inspection records for the registration/permit period. Inspection records should include, but are not limited to, notes describing the weekly leak detection system testing and operations, the absence/presence of water in the leak detection system, the last time the containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system and/or containment.
2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.
3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.



Please do not hesitate to contact me if you have further questions or concerns.
Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Inscore, Josh <Josh.Inscore@dvn.com>

Sent: Thursday, January 21, 2021 9:00 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>

Cc: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Inscore, Josh <Josh.Inscore@dvn.com>

Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with [19.15.34.14](#) CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385

Mobile: (405) 403-1426



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Devon Energy
333 West Sheridan Avenue
Oklahoma City, OK 73102-5015

405 235 3611 Phone
www.devonenergy.com

May 26, 2021

RE: Administrative Order number 1RF-6

Victoria Venegas
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St, Artesia NM 88210
(575) 909-0269
Victoria.Venegas@state.nm.us

Dear Ms. Venegas:

This letter is in response to the email we received on April 24, 2021 for Administrative Order number 1RF-6 request for closure. Please see the following requests with corresponding responses:

1. Devon must submit all copies of 1RF-6 - North Gaucho Containment and Recycling Facility's leak detection system inspection logs. Operators should include the detailed inspection records for the registration/permit period. Inspection records should include, but are not limited to, notes describing the weekly leak detection system testing and operations, the absence/presence of water in the leak detection system, the last time the containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system and/or containment.

Please see Attachment 1

2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.

Delineation samples were taken at BH21-07. Please see Attachment 2

3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.

Picture 1 labeled 32.381677 -103.490200 is located outside of the 1RF-6 in a freshwater impoundment to the south. To our knowledge no release has occurred outside of the treated water pond. However, prior to closing the freshwater pond, we conducted a site investigation. Attachment 3 was submitted to Ryan Mann, SLO, and Merchant Livestock, LLC, the current SLO Leasee.

Addressee Name

Page 2

May 26, 2021



Picture 2 labeled 32.383340, -103.490883 Please see Attachment 4



Sincerely,

Amanda T. Davis

Amanda T. Davis

Environmental Professional

6488 Seven Rivers Highway

Artesia, New Mexico 88210

(575) 748-0176 Direct

(505) 350-1336 Mobile

From: [Venegas, Victoria, EMNRD](#)
To: [Inscore, Josh](#); [Davis, Amanda](#); [Hernandez, Emily, EMNRD](#)
Cc: [Bratcher, Mike, EMNRD](#); rmann@slo.state.nm.us; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us
Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment
Date: Thursday, April 22, 2021 2:40:45 PM

1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

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Please do not hesitate to contact me if you have further questions or concerns.

Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Inscore, Josh <Josh.Inscore@dvn.com>
Sent: Thursday, January 21, 2021 9:00 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Inscore, Josh <Josh.Inscore@dvn.com>
Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with [19.15.34.14](#) CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

Josh Inscore

Completions Engineer - Delaware Basin
Office: (405) 228-8385
Mobile: (405) 403-1426



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Attachment 1

North Gaucho Treated Water Pond
Leak Detection Inspection Logs

	DATE	Fluid Level	SCADA ISSUES	BIRD DETERRENT ISSUES	FLUID IN LEAN DETECTION	FENCE ISSUES	BERM OR LINER ISSUES	SITE VISIT NOTES
	10/27/2015	0.0						
	11/12/2015							Liner tightness discovered
	12/3/2015	7.0						
	12/7/2015	5.5						Emulsion in NW corner
	12/13/2015	3.0						Stains present on liner
	12/25/2015	6.8	X					Minor erosion on east berm, depth pad floating
	12/30/2015	7.0	X					Depth sensor floating
	1/1/2016	7.5	X					Depth sensor floating
	1/3/2016	7.5						Depth sensor floating
	1/23/2016	8.8	X					Depth sensor floating
	1/26/2016	8.8	X					Depth sensor floating
	2/10/2016	2.0						
	2/16/2016	2.0						
	3/14/2016							
	3/22/2016	2.0						
	3/30/2016	2.0						
	4/6/2016	2.0						
	4/15/2016	2.0						
	4/22/2016	1.5						
	4/28/2016	1.5						
	5/4/2016	1.5						
	5/12/2016	1.0						
	5/17/2016	1.0						
	5/24/2016	1.0						
	6/2/2016	1.0						
	6/7/2016	1.0						
	6/14/2016	0.5						
	6/21/2016	0.5						
	6/27/2016							
	7/8/2016	1.0						
	7/13/2016	0.0						
	7/21/2016	0.0						
	7/26/2016	0.0						
	8/5/2016	0.0						
	8/10/2016	0.0						
	8/26/2016	0.0						
	8/31/2016	0.5						
	9/7/2016	0.0						
	9/15/2016	0.0						
	9/20/2016	0.0						
	9/27/2016	0.0						
	10/2/2016	0.0						
	10/11/2016	0.0						
	10/26/2016	0.0						
	10/18/2016	0.0						
	10/31/2016	0.0					Erosion on berm	
	11/21/2016	0.0					Erosion on berm	
	11/28/2016	0.0					Erosion on berm	

North Gaucho Treated Water Pond
Leak Detection Inspection Logs

	12/9/2016	0.0					Erosion on berm	
	12/17/2016	0.0					Erosion on berm	
	12/26/2016	0.0	X				Erosion on berm	SCADA not operational
	1/2/2017	0.0					Erosion on berm	
	1/9/2017	10.5	X				Erosion on berm	SCADA not operational
	1/16/2017	11.0	X				Erosion on berm	SCADA not operational
	1/23/2017	0.0					Erosion on berm	
	1/30/2017	0.0					Erosion on berm	
	2/6/2017	0.0					Erosion on berm	
	2/13/2017	2.0					Erosion on berm	
	2/20/2017	2.0						
	2/27/2017	0.0						
	3/6/2017	4.0						
	3/13/2017	6.0						
	3/20/2017	6.0						
	3/27/2017	8.0					Erosion on berm	
	4/3/2017	6.5						
	4/10/2017	6.5						
	4/17/2017	6.0						
	4/24/2017	5.5						
	5/5/2017	5.0						
	5/12/2017	5.0						
	5/19/2017	6.0						
	5/24/2017	6.0						
	6/2/2017	5.0						
	6/9/2017	5.0						
	6/15/2017	5.0						
	6/23/2017	5.5						
	6/30/2017	5.5						
	7/8/2017	5.0						
	7/13/2017	5.0						
	7/21/2017	6.0						
	7/27/2017	6.0						
	8/4/2017	6.0						
	8/10/2017	6.0						
	8/16/2017	6.0						
	8/24/2017	5.5						
	9/1/2017	5.5						
	9/7/2017	5.5						
	9/15/2017	5.5						
	9/21/2017	5.5						
	9/29/2017	5.5						
	10/6/2017	5.5						
	10/12/2017	0.0						
	10/20/2017	0.0						
	10/24/2017	0.5						
	11/1/2017	0.5						
	11/9/2017	0.5						
	11/16/2017	1.0						
	11/25/2017	1.0						

North Gaucho Treated Water Pond
Leak Detection Inspection Logs

	12/1/2017	1.0						
	12/8/2017	1.0						
	12/14/2017	1.0						
	12/22/2017	1.0						
	12/30/2017	1.0						
	1/5/2018	2.5						
	1/12/2018	3.0						
	1/19/2018	4.0						
	1/26/2018	6.0						
	2/2/2018	7.0						
	2/9/2018	7.5						
	2/16/2018	7.0						
	2/23/2018	2.5						
	3/2/2018	2.0						
	3/9/2018	2.0						
	3/16/2018	2.0						
	3/23/2018	2.0						
	3/30/2018	2.5						
	4/6/2018	2.5						
	4/13/2018	2.5						
	4/20/2018	2.5						
	4/27/2018	2.5						
	5/4/2018	2.5						
	5/11/2018	2.5						
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	5/25/2018	2.5						
	6/1/2018	2.5						
	6/8/2018	2.5						
	6/15/2018	2.5						
	6/22/2018	2.5						
	6/29/2018	1.0						
	7/6/2018	1.0						
	7/13/2018	1.0						
	7/20/2018	1.0						
	7/27/2018	1.0						
	8/3/2018	1.0						
	8/10/2018	1.0						
	8/17/2018	1.0						
	8/24/2018	1.0						
	8/31/2018	1.0						
	9/7/2018	1.0						
	11/19/2018	9.0						
	11/26/2018	9.5						
	12/3/2018	1.0						
	12/10/2018	1.0						
	12/17/2018	1.0						
	12/28/2018	1.0						
	1/1/2019	1.0						
	1/7/2019	1.0						
	1/14/2019	1.0						

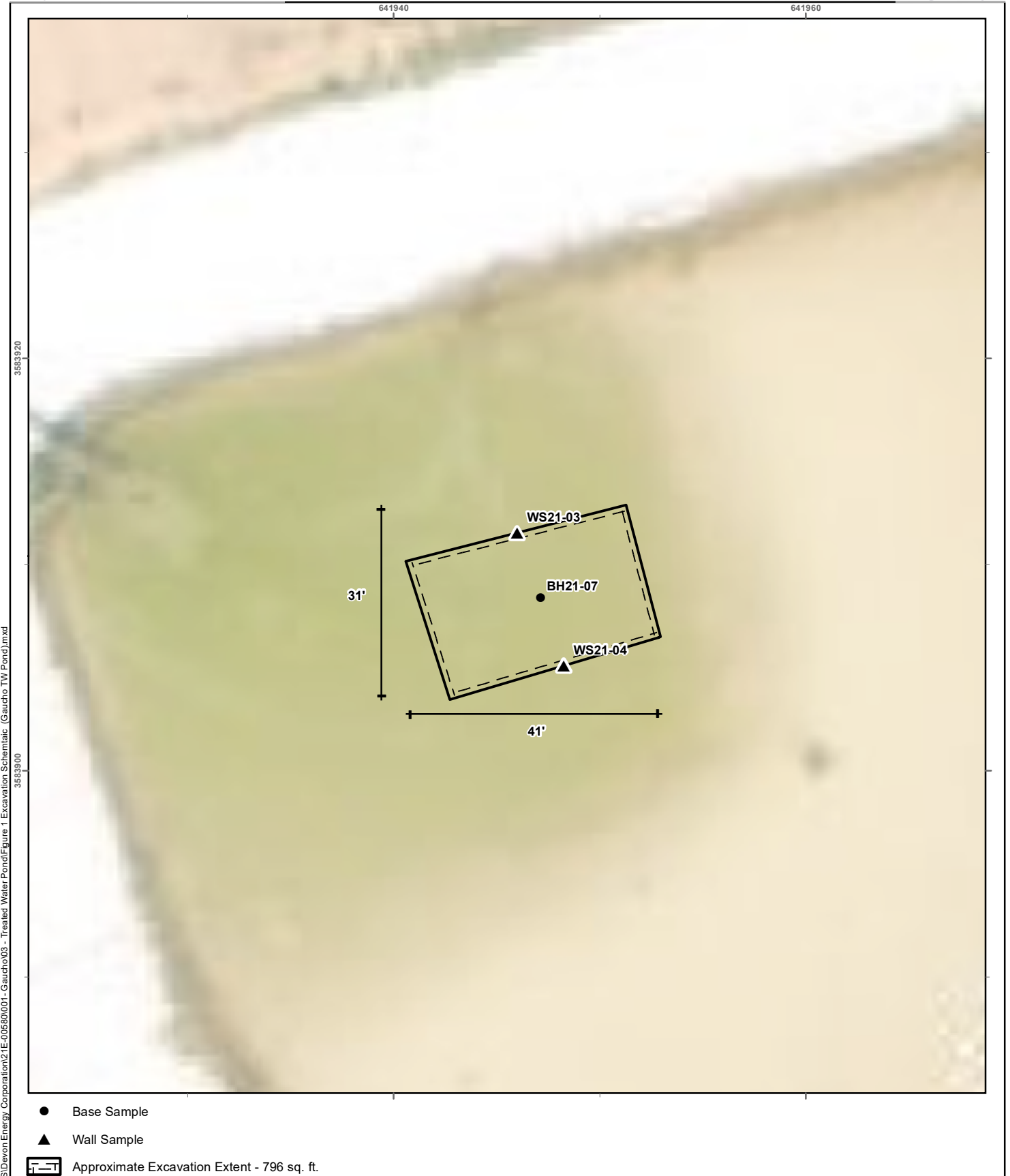
North Gaucho Treated Water Pond
Leak Detection Inspection Logs

	1/21/2019	1.0						
	1/28/2019	1.0						
	2/4/2019	1.0						
	2/11/2019	1.0						
	2/18/2019	1.0						
	2/25/2019	1.0						
	3/4/2019	0.0						
	3/11/2019	1.0						
	3/18/2019	1.0						
	3/25/2019	1.0						
	4/1/2019	1.0						
	4/8/2019	0.0						
	4/15/2019	0.0						
	4/22/2019	1.0						
	4/29/2019	0.0						
	5/6/2019	0.0						
	5/13/2019	0.0						
	5/20/2019	0.0						
	5/27/2019	0.0						
	6/3/2019	0.0						
	6/10/2019	0.0						
	6/17/2019	0.0						
	6/24/2019	0.0						
	7/1/2019	0.0						
	7/8/2019	0.0						
	8/2/2019	0.0						
	8/15/2019	0.0						
	8/23/2019	0.0						
	9/6/2019	0.0						
	9/13/2019	0.0						
	9/20/2019	0.0						
	10/3/2019	0.0						
	10/11/2019	0.0						
	10/25/2019	0.0						
	11/8/2019	0.0						
	12/13/2019	0.0						
	12/27/2019	0.0						
	1/7/2020	5.0						
	1/14/2020	5.0						
	1/31/2020	0.0						
	2/7/2020	0.0						
	2/14/2020	0.0						
	2/21/2020	0.0						
	2/28/2020	0.0						
	3/6/2020	0.0						
	3/13/2020	0.0						
	3/20/2020	0.0						
	3/27/2020	0.0						
	4/3/2020	0.0						
	4/10/2020	0.0						

North Gaucho Treated Water Pond
Leak Detection Inspection Logs

	4/17/2020	0.0						
	4/24/2020	0.0						
	5/1/2020	0.0						
	5/8/2020	0.0						
	5/15/2020	0.0						
	5/22/2020	0.0						
	5/29/2020	0.0						
	6/5/2020	0.0						
	6/12/2020	0.0						
	6/19/2020	0.0						
	6/26/2020	0.0						
	7/3/2020	0.0						
	7/10/2020	0.0						
	7/17/2020	0.0						
	7/24/2020	0.0						
	7/31/2020	0.0						
	8/7/2020	0.0						
	8/14/2020	0.0						
	8/21/2020	0.0						
	8/28/2020	0.0						
	9/4/2020	0.0						
	9/11/2020	0.0						
	9/18/2020	0.0						
	9/25/2020	0.0						
	10/2/2020	0.0						
	10/9/2020	0.0						
	10/16/2020	0.0						
	10/23/2020	0.0						
	10/30/2020	0.0						
	11/6/2020	0.0						
	11/13/2020	0.0						
	11/20/2020	0.0						
	11/27/2020	0.0						
	12/4/2020	0.0						
	12/11/2020	0.0						
	12/24/2020	0.0						
	12/28/2020	0.0						
	12/31/2020	0.0						
	1/4/2021	0.0						
	1/11/2021	0.0						
	1/18/2021	0.0						

Attachment 2



0 2.5 5 10 15 Feet
Map Center:
Lat/Long: 32.383176, -103.490986



Excavation Schematic Gauchito Treated Water Pond

4



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Notes: Background image provided by ESRI, 2019.

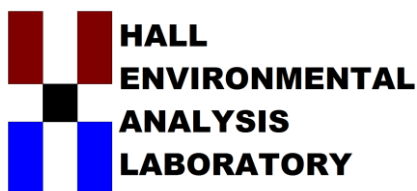
VERSATILITY. EXPERTISE.

Client Name: Devon Energy
 Site Name: Gaucho Treated Water Pond
 Project #: 21E-00580
 Lab Report: 2103688, 2103C43

Table 2. Confirmatory Sampling Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS21-01	0	March 9, 2021	-	-	-	-	-	-	-	460
BH21-07	13	March 24, 2021	-	-	-	-	-	-	-	64
WS21-03	0-13	March 24, 2021	-	-	-	-	-	-	-	<60
WS21-04	0-13	March 24, 2021	-	-	-	-	-	-	-	260

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level



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

April 02, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: Gauch Treated Frac Pond

OrderNo.: 2103C43

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/26/2021 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2103C43

Date Reported: 4/2/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Lab Order: 2103C43

Project: Gauch Treated Frac Pond

Lab ID: 2103C43-001

Collection Date: 3/24/2021 10:00:00 AM

Client Sample ID: BH21-07 13'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	64	60		mg/Kg	20	4/1/2021 2:16:36 PM	59125
----------	----	----	--	-------	----	---------------------	-------

Lab ID: 2103C43-002

Collection Date: 3/24/2021 10:30:00 AM

Client Sample ID: WS21-04 0-13'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	260	60		mg/Kg	20	4/1/2021 2:29:00 PM	59125
----------	-----	----	--	-------	----	---------------------	-------

Lab ID: 2103C43-003

Collection Date: 3/24/2021 10:35:00 AM

Client Sample ID: WS21-03 0-13'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	4/1/2021 2:41:25 PM	59125
----------	----	----	--	-------	----	---------------------	-------

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

Page 1 of 2

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103C43

02-Apr-21

Client: Devon Energy
Project: Gauch Treated Frac Pond

Sample ID: MB-59125	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59125	RunNo: 76378								
Prep Date: 4/1/2021	Analysis Date: 4/1/2021	SeqNo: 2705293	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

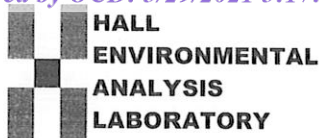
Sample ID: LCS-59125	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59125	RunNo: 76378								
Prep Date: 4/1/2021	Analysis Date: 4/1/2021	SeqNo: 2705294	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	105	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

Page 2 of 2



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

Sample Log-In Check List

Client Name: **Devon Energy**Work Order Number: **2103C43**

RcptNo: 1

Received By: **Juan Rojas**

3/26/2021 7:35:00 AM

*Juan Rojas*Completed By: **Cheyenne Cason**

3/26/2021 8:31:51 AM

Reviewed By: *SGC*

3/26/21

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. 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:

TO
3/26/21

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	1.9	Good				

Chain-of-Custody Record

Client: DevonMailing Address: On file

Phone #: _____

email or Fax#: _____

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other _____☐ EDD (Type) _____Turn-Around Time: 5-day☒ Standard ☐ Rush

Project Name: _____

Project #: 2115-00580-001Project Manager: Monica PeppinSampler: SBOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 1.9-0-1.9 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

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Attachment 3



March 9, 2021

Vertex Project #: 21E-00580 (Ph 001)

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210

Attention: Amanda Davis

Re: Electromagnetic Survey Results and Interpretation for Gaucho Fresh Water Pond

Ms. Davis,

Devon Energy Corporation (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct an electromagnetic (EM) survey at the Gaucho Fresh Water Pond (the "Pond") within Section 20, Township 22, Range 34E (hereafter referred to as the "site"; Attachment 1 – Figure 1). The site is located approximately 20 miles west-southwest of Eunice, New Mexico.

Vertex personnel conducted the EM survey on March 4, 2021. The EM survey was conducted over the bottom of the Pond, concurrent with reclamation activities, after the Pond was drained and the liner removed. This letter reviews the results of the EM survey at the site and discusses the apparent conductivity anomalies that were observed.

Method

The fixed-frequency EM method was used to map variations in ground conductivity to identify anomalously conductive soils and infer changes in the soil characteristics and composition. This method uses portable instrumentation consisting of a transmitter coil and a receiver coil. A primary magnetic field from the transmitter coil induces subsurface eddy currents, which in turn generate a secondary magnetic field that is intercepted by the receiver coil. The ratio of the primary and secondary magnetic fields is related to ground conductivity.

Ground conductivity is influenced by the following:

- Concentration of total dissolved solids within the groundwater
- Type of substrate
- Soil grain size (fine-grained clay is more electrically conductive than coarse-grained material such as sand or gravel)
- Soil temperature (conductivity decreases as soil temperature approaches freezing)

Ground conductivity measurements were acquired using the Geonics EM31 Terrain Conductivity Meter. Data were collected along the top of the berm surrounding the Pond and continuously along transects spaced approximately 5 to 10 yards across the bottom of the pond. Data were not collected on the slopes of the berm. Data were logged using a Juniper Systems Archer2 Data Logger with an integrated global positioning system (GPS).

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

The effective depth of investigation for the EM31, as operated during this investigation, is approximately 5 m (16 ft). The conductivity values are not specific values from discrete depths; they are weighted averages of conductivity between the surface and the depth of exploration of the EM field, and are termed 'apparent conductivities'.

Two components of the conductivity measurements are provided and interpreted:

- Quadrature component: The measurement of the apparent ground conductivity in units of millisiemens per metre (mS/m)
- In-phase component: A ratio of the primary to secondary EM field that provides evidence of metal influence, measured in parts per thousand (ppt)

Interpretation

The results of the EM31 survey are presented as apparent conductivity and in-phase contour maps on Figures 2 and 3 (Attachment 1), respectively. Apparent conductivity values less than 12 mS/m (dark blue contours; Figure 2) are representative of background conditions. The EM31 apparent conductivity results show numerous regions with conductivity values exceeding 40 mS/m (green to dark red contours; Figure 2), many of which correlate with anomalous in-phase values (dark blue contours; Figure 3). Although anomalous in-phase values are often associated with metal influence, they can also be caused by elevated salinity. Apparent conductivity values exceeding 40 mS/m may be attributable to elevated salinity, increase clay content and/or metal influence. During the field survey, Vertex personnel noted areas of salt crystallization at the surface on the bottom of the Pond.

Note that the areas of some of the regions of elevated apparent conductivity may be overestimated due to the distance between survey lines and the data contouring methods. Any subsequent investigations should include areas of apparent background conductivity, as well as potentially impacted areas.

Closure

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 780.464.3295 or lpankratow@vertex.ca.

Sincerely,

Laurie Pankratow, B.Sc., P.Geoph.
GEOPHYSICIST
APEGA PERMIT TO PRACTICE #10647

Attachments

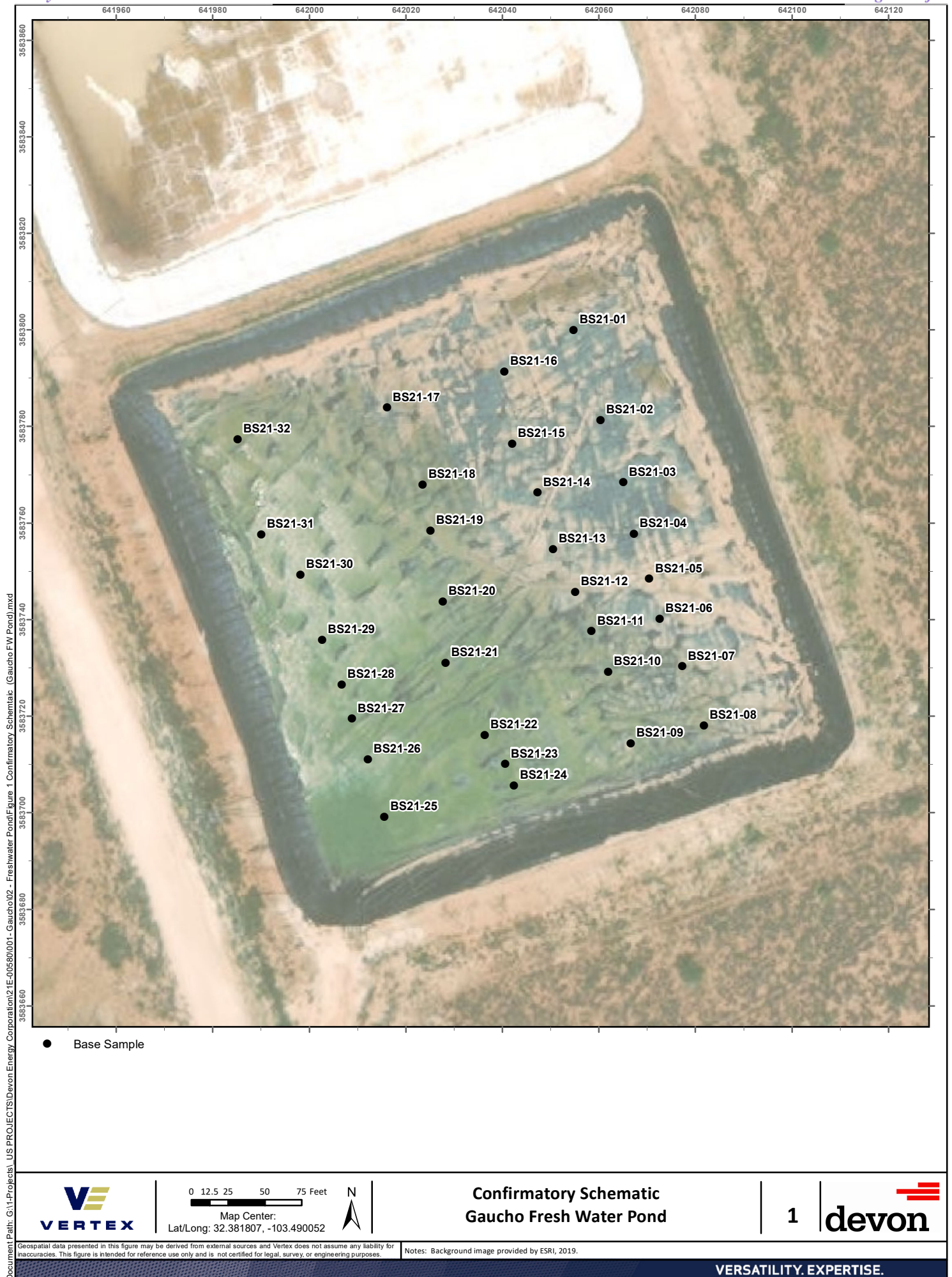
Attachment 1. Figures

Limitations

This report has been prepared for the sole benefit of Devon Energy Corporation (Devon). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1



Client Name: Devon Energy
 Site Name: Gaucho Fresh Water Pond
 Project #: 21E-00580
 Lab Report: 210347

Table 2. Confirmatory Sampling Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS21-01	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-02	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-03	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-04	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-05	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-06	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-07	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-08	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-09	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-10	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-11	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-12	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-13	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-14	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-15	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-16	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-17	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-18	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-19	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-20	0-0.5	March 8, 2021	-	-	-	-	-	-	-	110
BS21-21	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-22	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-23	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-24	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-25	0-0.5	March 8, 2021	-	-	-	-	-	-	-	140
BS21-26	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-27	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-28	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-29	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-30	0-0.5	March 8, 2021	-	-	-	-	-	-	-	94
BS21-31	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-32	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level

Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-001**Collection Date:** 3/8/2021 9:00:00 AM**Client Sample ID:** BS21-01 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-002**Collection Date:** 3/8/2021 9:15:00 AM**Client Sample ID:** BS21-02 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-003**Collection Date:** 3/8/2021 9:30:00 AM**Client Sample ID:** BS21-03 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-004**Collection Date:** 3/8/2021 9:45:00 AM**Client Sample ID:** BS21-04 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-005**Collection Date:** 3/8/2021 10:00:00 AM**Client Sample ID:** BS21-05 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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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

PRELIMINARY

- 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: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-006**Collection Date:** 3/8/2021 10:15:00 AM**Client Sample ID:** BS21-06 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-007**Collection Date:** 3/8/2021 10:30:00 AM**Client Sample ID:** BS21-07 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-008**Collection Date:** 3/8/2021 10:45:00 AM**Client Sample ID:** BS21-08 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-009**Collection Date:** 3/8/2021 11:00:00 AM**Client Sample ID:** BS21-09 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-010**Collection Date:** 3/8/2021 11:15:00 AM**Client Sample ID:** BS21-10 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-011**Collection Date:** 3/8/2021 11:30:00 AM**Client Sample ID:** BS21-11 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-012**Collection Date:** 3/8/2021 11:45:00 AM**Client Sample ID:** BS21-12 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-013**Collection Date:** 3/8/2021 12:00:00 PM**Client Sample ID:** BS21-13 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-014**Collection Date:** 3/8/2021 12:15:00 PM**Client Sample ID:** BS21-14 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-015**Collection Date:** 3/8/2021 12:30:00 PM**Client Sample ID:** BS21-15 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-016**Collection Date:** 3/8/2021 12:45:00 PM**Client Sample ID:** BS21-16 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-017**Collection Date:** 3/8/2021 1:00:00 PM**Client Sample ID:** BS21-17 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-018**Collection Date:** 3/8/2021 1:15:00 PM**Client Sample ID:** BS21-18 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-019**Collection Date:** 3/8/2021 1:30:00 PM**Client Sample ID:** BS21-19 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 3:00:00 PM
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Lab ID: 2103471-020**Collection Date:** 3/8/2021 1:45:00 PM**Client Sample ID:** BS21-20 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	110	60		mg/Kg	20	58638	3/10/2021 3:00:00 PM
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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

PRELIMINARY

- 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: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-021**Collection Date:** 3/8/2021 2:00:00 PM**Client Sample ID:** BS21-21 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-022**Collection Date:** 3/8/2021 2:15:00 PM**Client Sample ID:** BS21-22 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-023**Collection Date:** 3/8/2021 2:30:00 PM**Client Sample ID:** BS21-23 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-024**Collection Date:** 3/8/2021 2:45:00 PM**Client Sample ID:** BS21-24 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-025**Collection Date:** 3/8/2021 3:00:00 PM**Client Sample ID:** BS21-25 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	140	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-026**Collection Date:** 3/8/2021 3:15:00 PM**Client Sample ID:** BS21-26 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONSAnalyst: **VP**

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-027**Collection Date:** 3/8/2021 3:30:00 PM**Client Sample ID:** BS21-27 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONSAnalyst: **VP**

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-028**Collection Date:** 3/8/2021 3:45:00 PM**Client Sample ID:** BS21-28 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONSAnalyst: **VP**

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-029**Collection Date:** 3/8/2021 4:00:00 PM**Client Sample ID:** BS21-29 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONSAnalyst: **VP**

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-030**Collection Date:** 3/8/2021 4:15:00 PM**Client Sample ID:** BS21-30 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONSAnalyst: **VP**

Chloride	94	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-031**Collection Date:** 3/8/2021 4:30:00 PM**Client Sample ID:** BS21-31 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-032**Collection Date:** 3/8/2021 4:15:00 PM**Client Sample ID:** BS21-32 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-001**Collection Date:** 3/8/2021 9:00:00 AM**Client Sample ID:** BS21-01 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-002**Collection Date:** 3/8/2021 9:15:00 AM**Client Sample ID:** BS21-02 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-003**Collection Date:** 3/8/2021 9:30:00 AM**Client Sample ID:** BS21-03 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-004**Collection Date:** 3/8/2021 9:45:00 AM**Client Sample ID:** BS21-04 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-005**Collection Date:** 3/8/2021 10:00:00 AM**Client Sample ID:** BS21-05 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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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

PRELIMINARY

- 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: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471

Lab ID: 2103471-006 **Collection Date:** 3/8/2021 10:15:00 AM
Client Sample ID: BS21-06 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-007 **Collection Date:** 3/8/2021 10:30:00 AM
Client Sample ID: BS21-07 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-008 **Collection Date:** 3/8/2021 10:45:00 AM
Client Sample ID: BS21-08 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-009 **Collection Date:** 3/8/2021 11:00:00 AM
Client Sample ID: BS21-09 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-010 **Collection Date:** 3/8/2021 11:15:00 AM
Client Sample ID: BS21-10 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-011**Collection Date:** 3/8/2021 11:30:00 AM**Client Sample ID:** BS21-11 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-012**Collection Date:** 3/8/2021 11:45:00 AM**Client Sample ID:** BS21-12 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-013**Collection Date:** 3/8/2021 12:00:00 PM**Client Sample ID:** BS21-13 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-014**Collection Date:** 3/8/2021 12:15:00 PM**Client Sample ID:** BS21-14 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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Lab ID: 2103471-015**Collection Date:** 3/8/2021 12:30:00 PM**Client Sample ID:** BS21-15 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471

Lab ID: 2103471-016 **Collection Date:** 3/8/2021 12:45:00 PM
Client Sample ID: BS21-16 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	61		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-017 **Collection Date:** 3/8/2021 1:00:00 PM
Client Sample ID: BS21-17 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-018 **Collection Date:** 3/8/2021 1:15:00 PM
Client Sample ID: BS21-18 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	59		mg/Kg	20	58638	3/10/2021 9:00:00 AM

Analyst: VP

Lab ID: 2103471-019 **Collection Date:** 3/8/2021 1:30:00 PM
Client Sample ID: BS21-19 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	ND	59		mg/Kg	20	58638	3/10/2021 3:00:00 PM

Analyst: VP

Lab ID: 2103471-020 **Collection Date:** 3/8/2021 1:45:00 PM
Client Sample ID: BS21-20 0-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush Due 3/10							
EPA METHOD 300.0: ANIONS							
Chloride	110	60		mg/Kg	20	58638	3/10/2021 3:00:00 PM

Analyst: VP

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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-021**Collection Date:** 3/8/2021 2:00:00 PM**Client Sample ID:** BS21-21 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-022**Collection Date:** 3/8/2021 2:15:00 PM**Client Sample ID:** BS21-22 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-023**Collection Date:** 3/8/2021 2:30:00 PM**Client Sample ID:** BS21-23 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-024**Collection Date:** 3/8/2021 2:45:00 PM**Client Sample ID:** BS21-24 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-025**Collection Date:** 3/8/2021 3:00:00 PM**Client Sample ID:** BS21-25 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	140	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-026**Collection Date:** 3/8/2021 3:15:00 PM**Client Sample ID:** BS21-26 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-027**Collection Date:** 3/8/2021 3:30:00 PM**Client Sample ID:** BS21-27 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-028**Collection Date:** 3/8/2021 3:45:00 PM**Client Sample ID:** BS21-28 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-029**Collection Date:** 3/8/2021 4:00:00 PM**Client Sample ID:** BS21-29 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-030**Collection Date:** 3/8/2021 4:15:00 PM**Client Sample ID:** BS21-30 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	94	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Analytical Report

Lab Order: 2103471

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Gaucho Freshwater Pond

Lab Order: 2103471**Lab ID:** 2103471-031**Collection Date:** 3/8/2021 4:30:00 PM**Client Sample ID:** BS21-31 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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Lab ID: 2103471-032**Collection Date:** 3/8/2021 4:15:00 PM**Client Sample ID:** BS21-32 0-0.5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
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Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride	ND	60		mg/Kg	20	58640	3/10/2021 9:00:00 AM
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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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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 22, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Gaucho Freshwater Pond

OrderNo.: 2103471

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 32 sample(s) on 3/10/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 12, 2021.

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", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-01 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 9:00:00 AM

Lab ID: 2103471-001

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 11:08:52 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/18/2021 7:44:48 AM	58769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2021 7:44:48 AM	58769
Surr: DNOP	128	70-130		%Rec	1	3/18/2021 7:44:48 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 11:44:00 AM	58764
Surr: BFB	88.7	75.3-105		%Rec	1	3/17/2021 11:44:00 AM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 11:44:00 AM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 11:44:00 AM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 11:44:00 AM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 11:44:00 AM	58764
Surr: 4-Bromofluorobenzene	82.7	80-120		%Rec	1	3/17/2021 11:44:00 AM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-02 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 9:15:00 AM

Lab ID: 2103471-002

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 11:21:16 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/18/2021 8:20:19 AM	58769
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2021 8:20:19 AM	58769
Surr: DNOP	110	70-130		%Rec	1	3/18/2021 8:20:19 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 12:04:00 PM	58764
Surr: BFB	92.2	75.3-105		%Rec	1	3/17/2021 12:04:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 12:04:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 12:04:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 12:04:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 12:04:00 PM	58764
Surr: 4-Bromofluorobenzene	82.8	80-120		%Rec	1	3/17/2021 12:04:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-03 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 9:30:00 AM

Lab ID: 2103471-003

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	3/10/2021 11:33:41 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/18/2021 8:32:19 AM	58769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 8:32:19 AM	58769
Surr: DNOP	122	70-130		%Rec	1	3/18/2021 8:32:19 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 12:24:00 PM	58764
Surr: BFB	90.7	75.3-105		%Rec	1	3/17/2021 12:24:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 12:24:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 12:24:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 12:24:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 12:24:00 PM	58764
Surr: 4-Bromofluorobenzene	82.6	80-120		%Rec	1	3/17/2021 12:24:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-04 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 9:45:00 AM

Lab ID: 2103471-004

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	3/10/2021 11:46:06 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	3/18/2021 8:44:09 AM	58769
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/18/2021 8:44:09 AM	58769
Surr: DNOP	107	70-130		%Rec	1	3/18/2021 8:44:09 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 12:44:00 PM	58764
Surr: BFB	90.8	75.3-105		%Rec	1	3/17/2021 12:44:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 12:44:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/17/2021 12:44:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2021 12:44:00 PM	58764
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2021 12:44:00 PM	58764
Surr: 4-Bromofluorobenzene	83.2	80-120		%Rec	1	3/17/2021 12:44:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-05 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 10:00:00 AM

Lab ID: 2103471-005

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 11:58:30 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/18/2021 9:08:19 AM	58769
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2021 9:08:19 AM	58769
Surr: DNOP	95.0	70-130		%Rec	1	3/18/2021 9:08:19 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/17/2021 1:04:00 PM	58764
Surr: BFB	91.3	75.3-105		%Rec	1	3/17/2021 1:04:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/17/2021 1:04:00 PM	58764
Toluene	ND	0.046		mg/Kg	1	3/17/2021 1:04:00 PM	58764
Ethylbenzene	ND	0.046		mg/Kg	1	3/17/2021 1:04:00 PM	58764
Xylenes, Total	ND	0.093		mg/Kg	1	3/17/2021 1:04:00 PM	58764
Surr: 4-Bromofluorobenzene	82.0	80-120		%Rec	1	3/17/2021 1:04:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-06 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 10:15:00 AM

Lab ID: 2103471-006

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:10:54 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2021 9:20:20 AM	58769
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2021 9:20:20 AM	58769
Surr: DNOP	107	70-130		%Rec	1	3/18/2021 9:20:20 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 1:23:00 PM	58764
Surr: BFB	89.6	75.3-105		%Rec	1	3/17/2021 1:23:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 1:23:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 1:23:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 1:23:00 PM	58764
Xylenes, Total	ND	0.097		mg/Kg	1	3/17/2021 1:23:00 PM	58764
Surr: 4-Bromofluorobenzene	82.3	80-120		%Rec	1	3/17/2021 1:23:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-07 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 10:30:00 AM

Lab ID: 2103471-007

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:23:18 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2021 9:32:14 AM	58769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 9:32:14 AM	58769
Surr: DNOP	134	70-130	S	%Rec	1	3/18/2021 9:32:14 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 1:43:00 PM	58764
Surr: BFB	92.1	75.3-105		%Rec	1	3/17/2021 1:43:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 1:43:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 1:43:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 1:43:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 1:43:00 PM	58764
Surr: 4-Bromofluorobenzene	83.6	80-120		%Rec	1	3/17/2021 1:43:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-08 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 10:45:00 AM

Lab ID: 2103471-008

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:35:42 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/18/2021 9:44:18 AM	58769
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2021 9:44:18 AM	58769
Surr: DNOP	115	70-130		%Rec	1	3/18/2021 9:44:18 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 2:03:00 PM	58764
Surr: BFB	89.1	75.3-105		%Rec	1	3/17/2021 2:03:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 2:03:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 2:03:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 2:03:00 PM	58764
Xylenes, Total	ND	0.099		mg/Kg	1	3/17/2021 2:03:00 PM	58764
Surr: 4-Bromofluorobenzene	83.2	80-120		%Rec	1	3/17/2021 2:03:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-09 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 11:00:00 AM

Lab ID: 2103471-009

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 1:12:55 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 9:56:35 AM	58769
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 9:56:35 AM	58769
Surr: DNOP	128	70-130		%Rec	1	3/18/2021 9:56:35 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 2:23:00 PM	58764
Surr: BFB	89.3	75.3-105		%Rec	1	3/17/2021 2:23:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 2:23:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 2:23:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 2:23:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 2:23:00 PM	58764
Surr: 4-Bromofluorobenzene	81.5	80-120		%Rec	1	3/17/2021 2:23:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-10 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 11:15:00 AM

Lab ID: 2103471-010

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 1:25:20 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/18/2021 10:09:06 AM	58769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2021 10:09:06 AM	58769
Surr: DNOP	97.0	70-130		%Rec	1	3/18/2021 10:09:06 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 2:43:00 PM	58764
Surr: BFB	86.1	75.3-105		%Rec	1	3/17/2021 2:43:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/18/2021 7:27:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/18/2021 7:27:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2021 7:27:00 PM	58764
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2021 7:27:00 PM	58764
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	3/18/2021 7:27:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-11 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 11:30:00 AM

Lab ID: 2103471-011

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 1:37:45 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 10:21:20 AM	58769
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 10:21:20 AM	58769
Surr: DNOP	121	70-130		%Rec	1	3/18/2021 10:21:20 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 4:03:00 PM	58764
Surr: BFB	90.1	75.3-105		%Rec	1	3/17/2021 4:03:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 4:03:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/17/2021 4:03:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2021 4:03:00 PM	58764
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2021 4:03:00 PM	58764
Surr: 4-Bromofluorobenzene	82.1	80-120		%Rec	1	3/17/2021 4:03:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-12 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 11:45:00 AM

Lab ID: 2103471-012

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	3/10/2021 1:50:09 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 10:33:45 AM	58769
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 10:33:45 AM	58769
Surr: DNOP	96.9	70-130		%Rec	1	3/18/2021 10:33:45 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/17/2021 4:22:00 PM	58764
Surr: BFB	90.0	75.3-105		%Rec	1	3/17/2021 4:22:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 4:22:00 PM	58764
Toluene	ND	0.050		mg/Kg	1	3/17/2021 4:22:00 PM	58764
Ethylbenzene	ND	0.050		mg/Kg	1	3/17/2021 4:22:00 PM	58764
Xylenes, Total	ND	0.099		mg/Kg	1	3/17/2021 4:22:00 PM	58764
Surr: 4-Bromofluorobenzene	82.4	80-120		%Rec	1	3/17/2021 4:22:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-13 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 12:00:00 PM

Lab ID: 2103471-013

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:02:34 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/18/2021 10:46:02 AM	58769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 10:46:02 AM	58769
Surr: DNOP	101	70-130		%Rec	1	3/18/2021 10:46:02 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 4:42:00 PM	58764
Surr: BFB	89.2	75.3-105		%Rec	1	3/17/2021 4:42:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 4:42:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 4:42:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 4:42:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 4:42:00 PM	58764
Surr: 4-Bromofluorobenzene	81.6	80-120		%Rec	1	3/17/2021 4:42:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-14 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 12:15:00 PM

Lab ID: 2103471-014

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:14:59 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2021 10:58:25 AM	58769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 10:58:25 AM	58769
Surr: DNOP	108	70-130		%Rec	1	3/18/2021 10:58:25 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 5:02:00 PM	58764
Surr: BFB	87.6	75.3-105		%Rec	1	3/17/2021 5:02:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/18/2021 7:47:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/18/2021 7:47:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2021 7:47:00 PM	58764
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2021 7:47:00 PM	58764
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	3/18/2021 7:47:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-15 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 12:30:00 PM

Lab ID: 2103471-015

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:27:23 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/18/2021 11:10:51 AM	58769
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/18/2021 11:10:51 AM	58769
Surr: DNOP	125	70-130		%Rec	1	3/18/2021 11:10:51 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 5:22:00 PM	58764
Surr: BFB	91.8	75.3-105		%Rec	1	3/17/2021 5:22:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 5:22:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/17/2021 5:22:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2021 5:22:00 PM	58764
Xylenes, Total	ND	0.096		mg/Kg	1	3/17/2021 5:22:00 PM	58764
Surr: 4-Bromofluorobenzene	81.9	80-120		%Rec	1	3/17/2021 5:22:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-16 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 12:45:00 PM

Lab ID: 2103471-016

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	3/10/2021 2:39:48 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/18/2021 11:23:22 AM	58769
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/18/2021 11:23:22 AM	58769
Surr: DNOP	132	70-130	S	%Rec	1	3/18/2021 11:23:22 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Surr: BFB	92.0	75.3-105		%Rec	1	3/17/2021 5:41:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Surr: 4-Bromofluorobenzene	83.5	80-120		%Rec	1	3/17/2021 5:41:00 PM	58764

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-17 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 1:00:00 PM

Lab ID: 2103471-017

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:55:27 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/18/2021 11:35:44 AM	58769
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/18/2021 11:35:44 AM	58769
Surr: DNOP	104	70-130		%Rec	1	3/18/2021 11:35:44 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 6:01:00 PM	58764
Surr: BFB	91.1	75.3-105		%Rec	1	3/17/2021 6:01:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 6:01:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 6:01:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 6:01:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 6:01:00 PM	58764
Surr: 4-Bromofluorobenzene	83.0	80-120		%Rec	1	3/17/2021 6:01:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-18 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 1:15:00 PM

Lab ID: 2103471-018

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	3/10/2021 3:07:52 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2021 11:48:08 AM	58769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2021 11:48:08 AM	58769
Surr: DNOP	100	70-130		%Rec	1	3/18/2021 11:48:08 AM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 6:21:00 PM	58764
Surr: BFB	90.6	75.3-105		%Rec	1	3/17/2021 6:21:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/17/2021 6:21:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 6:21:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 6:21:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 6:21:00 PM	58764
Surr: 4-Bromofluorobenzene	83.6	80-120		%Rec	1	3/17/2021 6:21:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-19 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 1:30:00 PM

Lab ID: 2103471-019

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	3/10/2021 3:11:46 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/18/2021 12:00:34 PM	58769
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2021 12:00:34 PM	58769
Surr: DNOP	93.5	70-130		%Rec	1	3/18/2021 12:00:34 PM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/17/2021 6:41:00 PM	58764
Surr: BFB	92.0	75.3-105		%Rec	1	3/17/2021 6:41:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 6:41:00 PM	58764
Toluene	ND	0.048		mg/Kg	1	3/17/2021 6:41:00 PM	58764
Ethylbenzene	ND	0.048		mg/Kg	1	3/17/2021 6:41:00 PM	58764
Xylenes, Total	ND	0.095		mg/Kg	1	3/17/2021 6:41:00 PM	58764
Surr: 4-Bromofluorobenzene	81.0	80-120		%Rec	1	3/17/2021 6:41:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-20 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 1:45:00 PM

Lab ID: 2103471-020

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	110	60		mg/Kg	20	3/10/2021 3:24:07 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/18/2021 12:13:03 PM	58769
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/18/2021 12:13:03 PM	58769
Surr: DNOP	96.6	70-130		%Rec	1	3/18/2021 12:13:03 PM	58769
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/17/2021 7:01:00 PM	58764
Surr: BFB	90.9	75.3-105		%Rec	1	3/17/2021 7:01:00 PM	58764
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/17/2021 7:01:00 PM	58764
Toluene	ND	0.047		mg/Kg	1	3/17/2021 7:01:00 PM	58764
Ethylbenzene	ND	0.047		mg/Kg	1	3/17/2021 7:01:00 PM	58764
Xylenes, Total	ND	0.094		mg/Kg	1	3/17/2021 7:01:00 PM	58764
Surr: 4-Bromofluorobenzene	81.9	80-120		%Rec	1	3/17/2021 7:01:00 PM	58764

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-21 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 2:00:00 PM

Lab ID: 2103471-021

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:22:13 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 12:49:49 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 12:49:49 PM	58770
Surr: DNOP	88.8	70-130		%Rec	1	3/18/2021 12:49:49 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Surr: BFB	107	75.3-105	S	%Rec	1	3/18/2021 10:12:10 PM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Toluene	ND	0.050		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/18/2021 10:12:10 PM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-22 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 2:15:00 PM

Lab ID: 2103471-022

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:34:37 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2021 1:26:50 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 1:26:50 PM	58770
Surr: DNOP	101	70-130		%Rec	1	3/18/2021 1:26:50 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2021 11:23:14 PM	58765
Surr: BFB	105	75.3-105		%Rec	1	3/18/2021 11:23:14 PM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/18/2021 11:23:14 PM	58765
Toluene	ND	0.049		mg/Kg	1	3/18/2021 11:23:14 PM	58765
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2021 11:23:14 PM	58765
Xylenes, Total	ND	0.098		mg/Kg	1	3/18/2021 11:23:14 PM	58765
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	3/18/2021 11:23:14 PM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-23 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 2:30:00 PM

Lab ID: 2103471-023

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:47:02 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/18/2021 1:39:10 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 1:39:10 PM	58770
Surr: DNOP	106	70-130		%Rec	1	3/18/2021 1:39:10 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Surr: BFB	107	75.3-105	S	%Rec	1	3/19/2021 12:33:39 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Toluene	ND	0.049		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Xylenes, Total	ND	0.097		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/19/2021 12:33:39 AM	58765

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-24 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 2:45:00 PM

Lab ID: 2103471-024

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 1:24:17 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/18/2021 1:51:32 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 1:51:32 PM	58770
Surr: DNOP	104	70-130		%Rec	1	3/18/2021 1:51:32 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2021 12:57:21 AM	58765
Surr: BFB	104	75.3-105		%Rec	1	3/19/2021 12:57:21 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2021 12:57:21 AM	58765
Toluene	ND	0.047		mg/Kg	1	3/19/2021 12:57:21 AM	58765
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2021 12:57:21 AM	58765
Xylenes, Total	ND	0.093		mg/Kg	1	3/19/2021 12:57:21 AM	58765
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	3/19/2021 12:57:21 AM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-25 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 3:00:00 PM

Lab ID: 2103471-025

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	140	60		mg/Kg	20	3/10/2021 1:36:42 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 2:03:57 PM	58770
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 2:03:57 PM	58770
Surr: DNOP	101	70-130		%Rec	1	3/18/2021 2:03:57 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2021 1:20:59 AM	58765
Surr: BFB	106	75.3-105	S	%Rec	1	3/19/2021 1:20:59 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 1:20:59 AM	58765
Toluene	ND	0.048		mg/Kg	1	3/19/2021 1:20:59 AM	58765
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2021 1:20:59 AM	58765
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2021 1:20:59 AM	58765
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/19/2021 1:20:59 AM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-26 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 3:15:00 PM

Lab ID: 2103471-026

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 1:49:07 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2021 2:16:25 PM	58770
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2021 2:16:25 PM	58770
Surr: DNOP	103	70-130		%Rec	1	3/18/2021 2:16:25 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2021 1:44:31 AM	58765
Surr: BFB	104	75.3-105		%Rec	1	3/19/2021 1:44:31 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2021 1:44:31 AM	58765
Toluene	ND	0.047		mg/Kg	1	3/19/2021 1:44:31 AM	58765
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2021 1:44:31 AM	58765
Xylenes, Total	ND	0.093		mg/Kg	1	3/19/2021 1:44:31 AM	58765
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	3/19/2021 1:44:31 AM	58765

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-27 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 3:30:00 PM

Lab ID: 2103471-027

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:01:31 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 2:28:59 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 2:28:59 PM	58770
Surr: DNOP	132	70-130	S	%Rec	1	3/18/2021 2:28:59 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Surr: BFB	105	75.3-105		%Rec	1	3/19/2021 2:08:02 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Toluene	ND	0.047		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	3/19/2021 2:08:02 AM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-28 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 3:45:00 PM

Lab ID: 2103471-028

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:13:55 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 2:41:38 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 2:41:38 PM	58770
Surr: DNOP	128	70-130		%Rec	1	3/18/2021 2:41:38 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Surr: BFB	105	75.3-105	S	%Rec	1	3/19/2021 2:31:35 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Toluene	ND	0.048		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	3/19/2021 2:31:35 AM	58765

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-29 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:00:00 PM

Lab ID: 2103471-029

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:26:20 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/18/2021 2:54:20 PM	58770
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2021 2:54:20 PM	58770
Surr: DNOP	103	70-130		%Rec	1	3/18/2021 2:54:20 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/19/2021 2:55:12 AM	58765
Surr: BFB	104	75.3-105		%Rec	1	3/19/2021 2:55:12 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2021 2:55:12 AM	58765
Toluene	ND	0.050		mg/Kg	1	3/19/2021 2:55:12 AM	58765
Ethylbenzene	ND	0.050		mg/Kg	1	3/19/2021 2:55:12 AM	58765
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2021 2:55:12 AM	58765
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	1	3/19/2021 2:55:12 AM	58765

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 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-30 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:15:00 PM

Lab ID: 2103471-030

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	94	60		mg/Kg	20	3/10/2021 2:38:44 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 3:06:58 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 3:06:58 PM	58770
Surr: DNOP	107	70-130		%Rec	1	3/18/2021 3:06:58 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Surr: BFB	106	75.3-105	S	%Rec	1	3/19/2021 3:18:48 AM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Toluene	ND	0.049		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/19/2021 3:18:48 AM	58765

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-31 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:30:00 PM

Lab ID: 2103471-031

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:51:09 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 3:19:35 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 3:19:35 PM	58770
Surr: DNOP	109	70-130		%Rec	1	3/18/2021 3:19:35 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2021 6:22:55 PM	58765
Surr: BFB	102	75.3-105		%Rec	1	3/19/2021 6:22:55 PM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 6:22:55 PM	58765
Toluene	ND	0.048		mg/Kg	1	3/19/2021 6:22:55 PM	58765
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2021 6:22:55 PM	58765
Xylenes, Total	ND	0.096		mg/Kg	1	3/19/2021 6:22:55 PM	58765
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	3/19/2021 6:22:55 PM	58765

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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Analytical Report

Lab Order 2103471

Date Reported: 3/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS21-32 0-0.5

Project: Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:15:00 PM

Lab ID: 2103471-032

Matrix: SOIL

Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 3:03:34 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2021 3:32:40 PM	58770
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2021 3:32:40 PM	58770
Surr: DNOP	101	70-130		%Rec	1	3/18/2021 3:32:40 PM	58770
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2021 6:46:20 PM	58765
Surr: BFB	102	75.3-105		%Rec	1	3/19/2021 6:46:20 PM	58765
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/19/2021 6:46:20 PM	58765
Toluene	ND	0.047		mg/Kg	1	3/19/2021 6:46:20 PM	58765
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2021 6:46:20 PM	58765
Xylenes, Total	ND	0.093		mg/Kg	1	3/19/2021 6:46:20 PM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/19/2021 6:46:20 PM	58765

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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: MB-58638	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58638	RunNo: 75827								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2683467	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58638	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58638	RunNo: 75827								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2683468	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: MB-58640	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58640	RunNo: 75828								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2683836	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58640	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58640	RunNo: 75828								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2683837	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID: MB-58638	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 58638	RunNo: 75842								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2684327	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-58638	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 58638	RunNo: 75842								
Prep Date: 3/10/2021	Analysis Date: 3/10/2021	SeqNo: 2684328	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: MB-58769	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58769	RunNo: 76023								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2691078 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		99.7	70	130			

Sample ID: 2103471-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS21-01 0-0.5	Batch ID: 58769	RunNo: 76023								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2691086 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.7	48.59	0	108	15	184			
Surr: DNOP	5.8		4.859		119	70	130			

Sample ID: LCS-58769	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 58769	RunNo: 76023								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2691095 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	68.9	141			
Surr: DNOP	4.7		5.000		93.1	70	130			

Sample ID: 2103471-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS21-01 0-0.5	Batch ID: 58769	RunNo: 76023								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2691168 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.3	46.69	0	104	15	184	8.20	23.9	
Surr: DNOP	5.3		4.669		114	70	130	0	0	

Sample ID: MB-58770	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 58770	RunNo: 76023								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692146 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	9.3		10.00		93.4	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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: LCS-58770	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 58770				RunNo: 76023					
Prep Date: 3/16/2021	Analysis Date: 3/18/2021				SeqNo: 2692147	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	68.9	141			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: 2103471-021AMS	SampType: MS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BS21-21 0-0.5	Batch ID: 58770				RunNo: 76023					
Prep Date: 3/16/2021	Analysis Date: 3/18/2021				SeqNo: 2692148	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.75	0	102	15	184			
Surr: DNOP	4.9		4.975		98.6	70	130			

Sample ID: 2103471-021AMSD	SampType: MSD				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BS21-21 0-0.5	Batch ID: 58770				RunNo: 76023					
Prep Date: 3/16/2021	Analysis Date: 3/18/2021				SeqNo: 2692149	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.46	0	97.1	15	184	5.06	23.9	
Surr: DNOP	4.9		4.946		98.9	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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: LCS-58764	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691016		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	80	120			
Surr: BFB	1000		1000		101	75.3	105			

Sample ID: MB-58764	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691017		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	880		1000		87.8	75.3	105			

Sample ID: 2103471-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-01 0-0.5	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691038		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.15	0	123	61.3	114			S
Surr: BFB	1000		966.2		106	75.3	105			S

Sample ID: 2103471-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-01 0-0.5	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691039		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.76	0	122	61.3	114	2.18	20	S
Surr: BFB	950		950.6		100	75.3	105	0	0	

Sample ID: mb-58765	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 58765			RunNo: 76053						
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: 2691985		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	1100		1000		107	75.3	105			S

Sample ID: lcs-58765	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 58765			RunNo: 76053						
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: 2691986		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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: Ics-58765	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 58765			RunNo: 76053						
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: 2691986		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	80	120			
Surr: BFB	1200		1000		117	75.3	105			S

Sample ID: 2103471-021ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-21 0-0.5	Batch ID: 58765			RunNo: 76053						
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: 2691988		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.63	0	101	61.3	114			
Surr: BFB	1200		985.2		117	75.3	105			S

Sample ID: 2103471-021amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-21 0-0.5	Batch ID: 58765			RunNo: 76053						
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: 2691989		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.65	0	101	61.3	114	4.29	20	
Surr: BFB	1100		946.1		113	75.3	105	0	0	S

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693889		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.7	75.3	105			

Sample ID: 2.5ug gro Ics	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693890		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	75.3	105			S

Sample ID: mb-58791	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693921		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.5	75.3	105			

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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2103471
22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: Ics-58791	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 58791	RunNo: 76071								
Prep Date: 3/17/2021	Analysis Date: 3/19/2021	SeqNo: 2693922	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	75.3	105			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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: LCS-58764	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691049			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.83	0.050	1.000	0	82.7	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.9	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.2	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	80	120			

Sample ID: MB-58764	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691050			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	0.82		1.000		81.7	80	120			

Sample ID: 2103471-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BS21-02 0-0.5	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691071			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9434	0	87.8	76.3	120			
Toluene	0.84	0.047	0.9434	0	89.1	78.5	120			
Ethylbenzene	0.85	0.047	0.9434	0	89.8	78.1	124			
Xylenes, Total	2.5	0.094	2.830	0	88.9	79.3	125			
Surr: 4-Bromofluorobenzene	0.77		0.9434		81.6	80	120			

Sample ID: 2103471-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BS21-02 0-0.5	Batch ID: 58764			RunNo: 76022						
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			SeqNo: 2691072			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9775	0	87.7	76.3	120	3.49	20	
Toluene	0.88	0.049	0.9775	0	89.6	78.5	120	4.01	20	
Ethylbenzene	0.88	0.049	0.9775	0	90.2	78.1	124	4.02	20	
Xylenes, Total	2.6	0.098	2.933	0	89.6	79.3	125	4.28	20	
Surr: 4-Bromofluorobenzene	0.83		0.9775		85.1	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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: mb-58765	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 58765	RunNo: 76053								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692130			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-58765	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 58765	RunNo: 76053								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692131			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	93.9	80	120			
Toluene	0.95	0.050	1.000	0	94.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: 2103471-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS21-22 0-0.5	Batch ID: 58765	RunNo: 76053								
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: 2692134			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9625	0	86.3	76.3	120			
Toluene	0.85	0.048	0.9625	0	88.4	78.5	120			
Ethylbenzene	0.86	0.048	0.9625	0	89.2	78.1	124			
Xylenes, Total	2.6	0.096	2.887	0	88.7	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9625		102	80	120			

Sample ID: 2103471-022amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS21-22 0-0.5	Batch ID: 58765	RunNo: 76053								
Prep Date: 3/16/2021	Analysis Date: 3/19/2021	SeqNo: 2692135			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9681	0	93.8	76.3	120	8.84	20	
Toluene	0.92	0.048	0.9681	0	95.1	78.5	120	7.90	20	
Ethylbenzene	0.92	0.048	0.9681	0	95.4	78.1	124	7.22	20	
Xylenes, Total	2.8	0.097	2.904	0	94.9	79.3	125	7.33	20	
Surr: 4-Bromofluorobenzene	1.0		0.9681		105	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#: 2103471

22-Mar-21

Client: Devon Energy
Project: Gaucho Freshwater Pond

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693940		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B76071			RunNo: 76071						
Prep Date:	Analysis Date: 3/19/2021			SeqNo: 2693941		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: mb-58791	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693972		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120			

Sample ID: LCS-58791	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 58791			RunNo: 76071						
Prep Date: 3/17/2021	Analysis Date: 3/19/2021			SeqNo: 2693973		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		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 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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2103471

RcptNo: 1

Received By: Cheyenne Cason 3/10/2021 7:44:00 AM

Completed By: Cheyenne Cason 3/10/2021 7:59:33 AM

Reviewed By: TO 3/10/21

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. 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: CM 3/16/21

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	3.2	Good				
2	4.9	Good				

Chain-of-Custody Record

Client: Devon Energy

Mailing Address:

Phone #:

Email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush

Project Name:

Gaucha Freshwater Pond

Project #:

21E-00580

Project Manager:

Monica PeppinSampler: MJPOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): See history (°C)

Container Type and #

Preservative Type

HEAL No.

2103471402 ice013014015016017018019020021022023024

Date

Time

Matrix

Sample Name

3/8 12:00 50.1 BS21-13 0-0.512:15 BS21-14 0-0.512:30 BS21-15 0-0.512:45 BS21-16 0-0.51:00 BS21-17 0-0.51:15 BS21-18 0-0.51:30 BS21-19 0-0.51:45 BS21-20 0-0.52:00 BS21-21 0-0.52:15 BS21-22 0-0.52:30 BS21-23 0-0.52:45 BS21-24 0-0.5

Date:

Time:

Relinquished by:

Relinquished by:

3/9/21 09:303/9/21 07:14

Received by:

Date

Time

Via:

Received by:

Date

Time

Via:

Received by:

Date

Time

Via:

Received by:

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Date

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Attachment 4



● OCD Requested Sample



0 12.5 25 50 75 100 Feet
Map Center:
Lat/Long: 32.382912, -103.490496



OCD Requested Sample Location
Gaucho Treated Water Pond

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Notes: Imgaery from ESRI, 2020. Sample location from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.



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

May 21, 2021

Jason Crabtree

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Pond

OrderNo.: 2105874

Dear Jason Crabtree:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2021 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

Analytical Report

Lab Order 2105874

Date Reported: 5/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: Guacho TW Pond

Project: Gaucho Treated Pond

Collection Date: 5/19/2021 12:30:00 PM

Lab ID: 2105874-001

Matrix: MEOH (SOIL)

Received Date: 5/20/2021 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/20/2021 12:12:18 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/20/2021 12:49:55 PM	60152
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/20/2021 12:49:55 PM	60152
Surr: DNOP	106	70-130		%Rec	1	5/20/2021 12:49:55 PM	60152
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/20/2021 12:09:11 PM	60139
Surr: BFB	97.1	70-130		%Rec	1	5/20/2021 12:09:11 PM	60139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/20/2021 12:09:11 PM	60139
Toluene	ND	0.037		mg/Kg	1	5/20/2021 12:09:11 PM	60139
Ethylbenzene	ND	0.037		mg/Kg	1	5/20/2021 12:09:11 PM	60139
Xylenes, Total	ND	0.074		mg/Kg	1	5/20/2021 12:09:11 PM	60139
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/20/2021 12:09:11 PM	60139

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#: **2105874****21-May-21**

Client: Devon Energy
Project: Gaucho Treated Pond

Sample ID: MB-60151	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 60151		RunNo: 77526							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2752461		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60151	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 60151		RunNo: 77526							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2752462		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	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

Page 2 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105874

21-May-21

Client: Devon Energy
Project: Gaucho Treated Pond

Sample ID: MB-60136	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 60136		RunNo: 77529							
Prep Date: 5/19/2021	Analysis Date: 5/20/2021		SeqNo: 2751569		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.0	70	130			

Sample ID: LCS-60136	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 60136		RunNo: 77529							
Prep Date: 5/19/2021	Analysis Date: 5/20/2021		SeqNo: 2751642		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.9	70	130			

Sample ID: LCS-60152	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 60152		RunNo: 77529							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2751985		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	68.9	141			
Surr: DNOP	5.0		5.000		99.1	70	130			

Sample ID: MB-60152	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 60152		RunNo: 77529							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2751986		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		120	70	130			

Sample ID: 2105874-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: Guacho TW Pond	Batch ID: 60152		RunNo: 77529							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2752090		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.4	46.95	0	100	15	184			
Surr: DNOP	4.8		4.695		102	70	130			

Sample ID: 2105874-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: Guacho TW Pond	Batch ID: 60152		RunNo: 77529							
Prep Date: 5/20/2021	Analysis Date: 5/20/2021		SeqNo: 2752095		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.1	45.45	0	99.3	15	184	3.98	23.9	

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#: 2105874
21-May-21

Client: Devon Energy
Project: Gaucho Treated Pond

Sample ID: 2105874-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: Guacho TW Pond		Batch ID: 60152		RunNo: 77529						
Prep Date: 5/20/2021		Analysis Date: 5/20/2021		SeqNo: 2752095		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		4.545		99.0	70	130	0	0	

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#: 2105874

21-May-21

Client: Devon Energy
Project: Gaucho Treated Pond

Sample ID: mb-60139	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 60139	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2752224	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		99.2	70	130			

Sample ID: lcs-60139	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 60139	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2752225	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	78.6	131			
Surr: BFB	1100		1000		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#: 2105874

21-May-21

Client: Devon Energy
Project: Gaucho Treated Pond

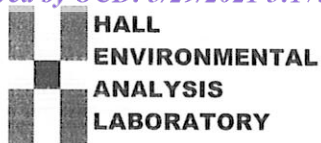
Sample ID: mb-60139	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60139	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2752268	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: LCS-60139	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60139	RunNo: 77537								
Prep Date: 5/19/2021	Analysis Date: 5/20/2021	SeqNo: 2752269	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	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



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

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2105874

RcptNo: 1

Received By: Sean Livingston 5/20/2021 11:30:00 AM

Completed By: Desiree Dominguez 5/20/2021 11:30:28 AM

Reviewed By: SPA 5.20.21

Sm Livingston
DD

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. 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:

ENM 5/20/21

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	4.9	Good				

Venegas, Victoria, EMNRD

From: Inscore, Josh <Josh.Inscore@devon.com>
Sent: Thursday, January 21, 2021 9:00 AM
To: Enviro, OCD, EMNRD
Cc: Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD; Inscore, Josh
Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment
Attachments: N&S Gaucho Pit Closure Plan.pdf

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with [19.15.34.14](#) CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385

Mobile: (405) 403-1426



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Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Wednesday, June 23, 2021 10:07 AM
To: 'Raup, Bob'
Cc: Mathews, Wesley; DeHoyos, Kendra
Subject: 1RF-6 - North Gaucho Containment and Recycling Facility [fTO1527936646]. Closure Approved.
Attachments: C-147_1RF-6_North Gaucho Containment 06.23.2021.pdf

1RF-6 - North Gaucho Containment and Recycling Facility [fTO1527936646]. Closure Approved.

NMOCD has reviewed the closure report submitted for [6137] DEVON ENERGY PRODUCTION COMPANY LP, on March 28, 2021 and the additional information submitted on May 29, 2021 for 1RF-6 - North Gaucho Containment and Recycling Facility # [fTO1527936646] in B-20-22S-34E, Lea County, New Mexico. The closure report has been approved.

Please note that according to 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.

A copy of the approved C-147 for 1RF-6 - North Gaucho Containment and Recycling Facility # [fTO1527936646] can be found in the OCD Imaging system @:

<https://ocdimage.emnrd.state.nm.us/imaging/FacilityFileView.aspx?facility=fTO1527936646>

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

811S. First St. | Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Raup, Bob <Bob.Raup@dvn.com>
Sent: Tuesday, June 22, 2021 12:51 PM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: Mathews, Wesley <Wesley.Mathews@dvn.com>; DeHoyos, Kendra <Kendra.DeHoyos@dvn.com>
Subject: [EXT] RE: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Good Afternoon,

Please see the attached C-147 Long Form along with the Closure Report that Amanda Davis had previously submitted to you. If this is acceptable to you, we can go ahead and upload via the portal as well if you prefer.

Please do not hesitate to contact me if you need additional information or have questions.

Thank you,
Bob

Robert W. Raup II
Environmental Supervisor
Phone: 405-228-2487 | Mobile: 701-310-5194
Bob.Raup@dvn.com



From: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Sent: Wednesday, June 16, 2021 3:12 PM
To: Raup, Bob <Bob.Raup@dvn.com>
Cc: Mathews, Wesley <Wesley.Mathews@dvn.com>
Subject: RE: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Good afternoon,
Please email me a C-147 Long Form, signed and dated, for this closure request. The form C-147 short form included in the report is for Recycling Facilities only. 1RF-6 was permitted as a containment.
Thank you,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Raup, Bob <Bob.Raup@dvn.com>
Sent: Thursday, June 3, 2021 11:02 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: Mathews, Wesley <Wesley.Mathews@dvn.com>
Subject: [EXT] FW: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Good Morning,

I wanted to let you know that either Wes or myself will be submitting the North Gaucho Containment Closure Report via the portal here within the next few days. As of June 1st, Amanda is no longer with Devon, but her last email was to ensure that I get this submitted. I will let you know once it has been submitted.

Thank you,
Bob

Robert W. Raup II
Environmental Supervisor
Phone: 405-228-2487 | Mobile: 701-310-5194
Bob.Raup@dvn.com



From: Davis, Amanda <Amanda.Davis@dvn.com>
Sent: Tuesday, June 1, 2021 4:48 PM
To: Raup, Bob <Bob.Raup@dvn.com>
Subject: Fwd: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

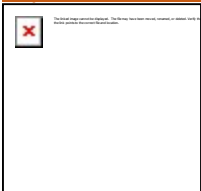
I've already turned in my computer and my P-card.

Get [Outlook for iOS](#)

From: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Sent: Tuesday, June 1, 2021 2:40 PM
To: Davis, Amanda
Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Good afternoon Ms. Davis,
Could you please submit the report via [OCD.online?](#)
Thanks in advance for your help.
Best,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Davis, Amanda <Amanda.Davis@dvn.com>
Sent: Saturday, May 29, 2021 9:00 PM

To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Inscore, Josh <Josh.Inscore@dvn.com>; Hernandez, Emily, EMNRD <Emily.Hernandez@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; 'rmann@slo.state.nm.us' <rmann@slo.state.nm.us>; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us; Bruening, Josh <Josh.Bruening@dvn.com>; Raup, Bob <Bob.Raup@dvn.com>; Mathews, Wesley <Wesley.Mathews@dvn.com>
Subject: [EXT] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Ms. Venegas,

Attached you will find the requested information from your April 24, 2021 email. If you require any additional information please contact Josh Inscore.

Thank you,

Amanda Trujillo Davis
Environmental Professional

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210
(575) 748-0176 Direct
(505) 350-1336 Mobile



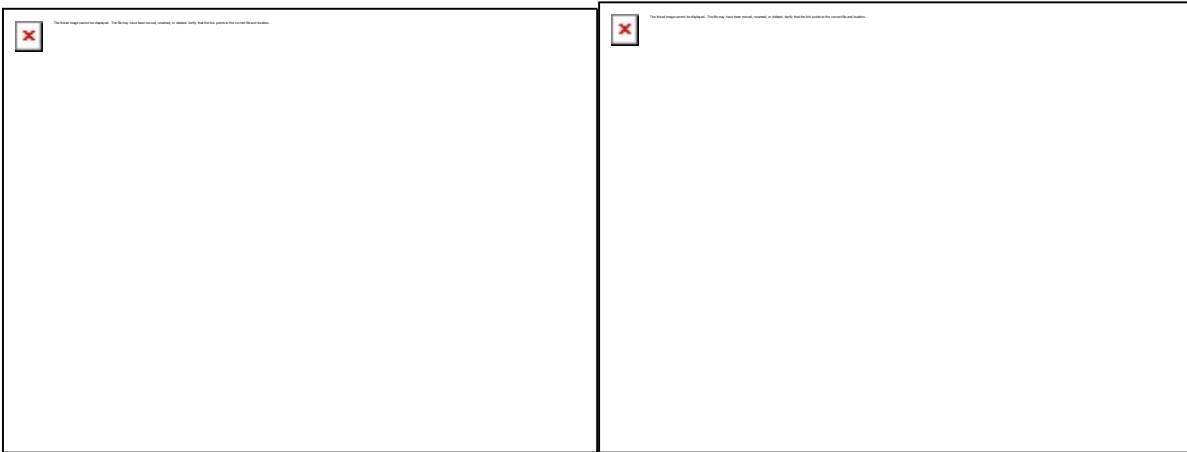
From: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Sent: Thursday, April 22, 2021 2:40 PM
To: Inscore, Josh <Josh.Inscore@dvn.com>; Davis, Amanda <Amanda.Davis@dvn.com>; Hernandez, Emily, EMNRD <Emily.Hernandez@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; 'rmann@slo.state.nm.us' <rmann@slo.state.nm.us>; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us
Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

1. Devon must submit all copies of 1RF-6 - North Gaucho Containment and Recycling Facility's leak detection system inspection logs. Operators should include the detailed inspection records for the registration/permit period. Inspection records should include, but are not limited to, notes describing the weekly leak detection system testing and operations, the absence/presence of water in the leak detection system, the last time the containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system and/or containment.

2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.
3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.



Please do not hesitate to contact me if you have further questions or concerns.

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

811S. First St. | Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Inscore, Josh <Josh.Inscore@dvn.com>

Sent: Thursday, January 21, 2021 9:00 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>

Cc: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Inscore, Josh <Josh.Inscore@dvn.com>

Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with [19.15.34.14](#) CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385

Mobile: (405) 403-1426



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District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 22176

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 22176
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the closure report submitted for [6137] DEVON ENERGY PRODUCTION COMPANY LP, on March 28, 2021 and the additional information submitted on May 29, 2021 for 1RF-6 - North Gaucho Containment and Recycling Facility # [FTO1527936646] in B-20-22S-34E, Lea County, New Mexico. The closure report has been approved.	6/23/2021