

P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

January 25, 2021

Mr. Lupe Carrasco Devon Energy Corporation P.O. Box 250 Artesia, New Mexico 88211 Email: lupe.carrasco@dvn.com

Subject: Site Characterization, Remediation, and Closure Report Ice Dancer 30 Federal Com 2H (February 2019) 2RP-5249 Eddy County, New Mexico

Dear Mr. Carrasco:

HRL Compliance Solutions, Inc. (HRL) is pleased to submit this site characterization, remediation, and closure report for the February 8, 2019 release related to the Ice Dancer 30 Federal Com 2H (Site). The Site is at latitude 32.266651160 and longitude -103.912909576 in Eddy County, New Mexico (Figure 1).

#### Site Background

On February 8, 2019, a release of two barrels of oil and 3.7 barrels of produced water was observed at the Site. The release occurred when the back-pressure valve on the two-phase separator caused fluid to overflow to the flare. Initial response activities included stopping the source of the release, securing the impacted are to protect human health and the environment, and removing all free liquids and recoverable materials and managing them appropriately. Two barrels of oil and one barrel of produced water were recovered.

Because the volume released is between five and 25 barrels, this is considered a minor release according to the New Mexico Oil and Conservation Division (NMOCD). On February 14, 2019, Devon reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) (Attachment A). The release was assigned Remediation Permit (RP) number 2RP-5249.

#### New Mexico Administrative Code (NMAC) Site Characterization Criteria

Title 19, Chapter 15, Part 29, Section 11 of the New Mexico Administrative Code (NMAC) provides requirements for release characterization once the free liquids and recoverable materials have been removed from the Site.

#### Depth to groundwater

Depth to groundwater at the release was estimated by evaluating data from the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) (Figure 2). The nearest

## INNOVATIVE SOLUTIONS DELIVERED

groundwater well was approximately 2 miles from the Site; the depth to water in this well was 50 feet below ground surface.

#### Wellhead Protection Area

There are no sources of water, including springs, wells, or other sources of fresh water, within one-half mile of the release (Figure 2).

#### Distance to Nearest Significant Watercourse

A significant watercourse is defined as "...a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank" (19.15.17.7 NMAC) (Figure 2). There are no significant watercourses within one-half mile of the lateral extents of the release.

#### Additional Site Characterization Criteria

The following is additional information related to characterization of the Site.

Site Characterization	Response/Discussion
What is the shallowest depth to groundwater beneath the area affected by the release?	50 feet
Did the release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or other significant watercourse?	No
Are the lateral extents of the release within 200 feet of a lakebed, sinkhole, or playa lake?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No
Are the lateral extents of the release within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1,000 feet of any fresh water well or spring?	No
Are the lateral extents of the release within any incorporated municipal boundaries?	No
Are the lateral extents of the release within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No

Ice Dancer 30 Com 2H (February 2019) January 25, 2021

Site Characterization	Response/Discussion
Are the lateral extents of the release overlying an unstable area such as karst geology?	The Site is in an area of high potential for karst topography
Are the lateral extents of the release within the 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production, or storage site?	No

## **Site Delineation**

Prior to initiating field activities, HRL submitted a Mechanical Excavation Permit to Devon Energy and had subsurface utilities located at the Site. HRL mobilized to the Site on April 4, 2020 to collect six soil samples (FS 1, FS 2, FS 3, FS 4, and FS 5) for laboratory analysis. Samples were collected from depths ranging from three inches bgs to 28 inches bgs in laboratory supplied jars. Refusal with the hand auger was encountered in several locations at depths varying from 12 inches bgs to 28 inches bgs. Samples were immediately placed on ice and kept under strict chain of custody protocol prior to submission to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico (Attachment B, Characterization Samples Analytical Laboratory Report) for analysis of:

- Chloride by United States Environmental Protection Agency (US EPA) Method 300.0
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX) by US EPA Method 8021B
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by US EPA Method 8015M

Based on the sample results, HRL remobilized to the Site on April 23, 2020 to further delineate the release. HRL collected an additional three soil samples (1, 2, and 3) and submitted them to Hall Environmental Analysis Laboratory as stated above.

## **Closure Criteria**

Based on the NMAC Site Characterization Criteria, the release is in an area of high potential for karst topography. Therefore, the following NMOCD Closure Criteria are applicable to the release:

Depth to Groundwater	Parameter	Closure Criteria in milligrams per kilogram (mg/kg)
Loss than 50	Chloride	600 mg/kg or natural background, whichever is greater
Less than 50 feet below ground	Total Petroleum Hydrocarbons (TPH) (Gasoline Range Organics + Diesel Range Organics + Oil Range Organics)	100 mg/kg
surface	Benzene	10 mg/kg
	Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)	50 mg/kg

## **Remediation Plan**

A scaled diagram depicting the potentially impacted area and nearby significant features, such as roads, site infrastructure, location of borings, sample points, monitoring wells (if present) and subsurface features has been prepared (Figure 3). HRL utilized a Trimble GeoXT global positioning system (GPS) unit to collect latitude and longitude data for the sample locations (Figure 3). Based on analysis of the laboratory sample results, the release impacted a surficial area of approximately 612 square-feet to a depth of at least 28 inches.

#### Remediation

On August 17, 2020, HRL mobilized to the Site with its excavation subcontractor Halo Services to excavate the impacted soil. Impacted soil was removed from the area immediately surrounding the flare. Confirmation sample results exceeded applicable closure criteria for one or more of the required parameters. Therefore, HRL mobilized to the Site a second time with Halo Services on December 15, 2020 to conduct additional excavation at the Site. The excavation was expanded to approximately 643 square feet in size and to a total depth of approximately five feet (Figures 4 and 5; Attachment C, Photographs).

Five confirmation soil samples were collected from the sidewalls (2-S1 through 2-S4 and 2-S6) and four confirmation soil samples were collected from the excavation floor (2-F1 through 2-F4) (Figures 4 and 5) (Attachment D, Confirmation Samples Laboratory Report). The excavated soil was transported to the R360 Halfway facility in for disposal (Attachment E, Soil Disposal Manifests). The excavation was backfilled with clean soil.

## **Scope and Limitations**

The scope of HRL's services consists of performing site characterization, oversight of remediation, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin.

Ice Dancer 30 Com 2H (February 2019) January 25, 2021

#### **Conclusions and Recommendations**

The soil impacted by TPH and chloride above applicable closure criteria from the February 2019 release at the Site has been removed. Confirmation soil samples indicate the impacted soil has been removed from the Site; HRL recommends closure of this release.

We appreciate the opportunity to work with Devon on this project. If you have any questions or concerns, please do not hesitate to contact me at (970) 243-3271 or via email at jlinn@hrlcomp.com.

Sincerely,

## HRL Compliance Solutions, Inc.

julie L

Julie Linn, PG, RG Project Manager

## Figures:

Figure 1: Site Location Figure 2: Depth to Groundwater Figure 3: Characterization Sample Location and Results Figure 4: Sidewall Confirmation Sample Location and Results Figure 5: Excavation Floor Confirmation Sample Location and Results

## Tables:

Table 1: Site Characterization Soil Sample ResultsTable 2: Confirmation Soil Sample Results

## Attachments:

Attachment A: NMOCD Form C-141 Attachment B: Characterization Samples Analytical Laboratory Report Attachment C: Photographs Attachment D: Confirmation Samples Analytical Laboratory Report Attachment E: Soil Disposal Manifests

Ice Dancer 30 Com 2H (February 2019) January 25, 2021 Received by OCD: 1/28/2021 3:26:40 PM



Figures





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12/15/2020      2-F1    5'      Chloride (mg/kg)    210      Benzene (mg/kg)    ND      BTEX (mg/kg)    ND      TPH (mg/kg)    ND	Chloride (mg/kg) Benzene (mg/kg) BTEX (mg/kg)	5' 260 ND ND ND 12/15/2020	
		2-F3 5' Chloride (mg/kg) 140 Benzene (mg/kg) ND BTEX (mg/kg) ND TPH (mg/kg) ND	1 - 10 B
Carlsbad Peccontrol Recontrol Balt Carls Balt Carls Balt Carls Car	<b>DECOMMENTS:</b> NOTES / COMMENTS: The total excavation area is approximately 643 square feet. Results in red exceed closure criteria.	Figure 5: Excavation I Confirmation Samp Ice Dancer 30 Federal Co February 2019 Spi 32.266651160, -103.912 Section 31, Township 23 South, Mapped Features Excavation Area 2-F1 (5' Deep) Excavation Area 2-F2 (5' Deep) Excavation Area 2-F3 (5' Deep) Excavation Area 2-F4 (5' Deep)	le Map m #002H ill 2909576

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Tables

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## Table 1 Soil Sample Results Devon Energy Ice Dancer 30 Federal Com #002H (February 2019) Eddy County, New Mexico

Sample ID	Depth (inches)	Sample Date	Chloride	Benzene	BTEX	ТРН
			Values are	e in milligram	s per kilogran	n (mg/kg)
NMOCD Closure Criteria (Groundwater less than 50 feet) *		600	10	50	100	
FS1.2	12	4/4/2020	2,100	ND	ND	990
FS1.7	28	4/4/2020	1,100	ND	ND	ND
FS2	4	4/4/2020	600	ND	ND	1,730
FS3	3	4/4/2020	90	ND	ND	ND
FS4	3	4/4/2020	170	ND	ND	147
FS5	3	4/4/2020	160	ND	ND	340
SP1	3	4/23/2020	ND	ND	ND	ND
SP2	3	4/23/2020	ND	ND	ND	ND
SP3	3	4/23/2020	ND	ND	ND	ND
SP-1	3	5/20/2020	ND	ND	ND	ND
SP-2	3	5/20/2020	ND	ND	ND	ND
SP-3	3	5/20/2020	ND	ND	ND	14
SP-4	3	5/20/2020	ND	ND	ND	ND
SP-5-12"	12	5/20/2020	800	ND	ND	4,800

Notes:

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

TPH: Total Petroleum Hydrocarbons

Bold results exceed closure criteria

\* Closure Criteria specified in 19.15.29.12 NMAC



# Table 2Confirmation Soil Sample ResultsDevon EnergyIce Dancer 30 Federal Com #002H (February 2019)Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (feet below	Chloride	Benzene	BTEX	ТРН
		ground surface)	Values	are in milligram	s per kilogram (I	mg/kg)
NMOCD Closure Criteria (Groundwater less than 50 feet) *		600	10	50	100	
2-S1	12/15/2020	NA	93	ND	ND	ND
2-S2	12/15/2020	NA	210	ND	ND	ND
2-S3	12/15/2020	NA	ND	ND	ND	ND
2-S4	12/15/2020	NA	ND	ND	ND	ND
2-S6	12/15/2020	NA	570	ND	ND	ND
2-F1	12/15/2020	5	210	ND	ND	ND
2-F2	12/15/2020	5	230	ND	ND	ND
2-F3	12/15/2020	5	140	ND	ND	ND
2-F4	12/15/2020	5	260	ND	ND	ND

Notes:

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

TPH: Total Petroleum Hydrocarbons

Bold results exceed closure criteria

\* Closure Criteria specified in 19.15.29.12 NMAC



Attachment A

NMOCD Form C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

## **Location of Release Source**

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	(NAD 83 in decimal degrees to 5 decimal places)
Site Name	Site Type

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: \_

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

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Page	4

## Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:	Title:
Signature: <u>Kendra DeHoyos</u>	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Application ID

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50(</u> ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🛛 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/28/2	2021 3:26:40 PM State of New Mexico			Page 19 of 90
Form C-141			Incident ID	
Page 4	Oil Conservation Divisi	on	District RP	
			Facility ID	
			Application ID	
regulations all operators as public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: <u>Lupe</u> Signature: <u>Lupe</u>		e notifications and perform of the OCD does not relieve th a threat to groundwater, surf or of responsibility for comp	corrective actions for rele e operator of liability sh ace water, human health oliance with any other fe onmental Professional	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
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Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\boxtimes$  Estimated volume of material to be remediated

Page 5

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name: <u>Lupe Carrasco</u>	Title:Environmental Professional
Signature: Lupe Carrasco	Date:1/28/21
email: <u>lupe.carrasco@dvn.com</u>	Telephone: (575) 748-0765
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

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Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 21 of 90

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Lupe Carrasco Title: Environmental Professional Signature: Lupe Carrasco Date: 1/28/21\_\_\_\_ Telephone: (575) 748-0765 email: lupe.carrasco@dvn.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Printed Name: Title:

Received by OCD: 1/28/2021 3:26:40 PM

Page 22 of 90

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Attachment B

# **Characterization Samples Analytical Report**

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April 13, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX:

RE: Ice Dancer 30 Fed Com 2H (Feb 2019)

OrderNo.: 2004251

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/7/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2004251

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: FS1.2 **Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 4/4/2020 2:23:00 PM Lab ID: 2004251-001 Matrix: SOIL Received Date: 4/7/2020 8:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 640 9.7 mg/Kg 1 4/9/2020 6:59:16 AM Motor Oil Range Organics (MRO) 350 49 mg/Kg 1 4/9/2020 6:59:16 AM Surr: DNOP 55.1-146 %Rec 1 4/9/2020 6:59:16 AM 110 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4/9/2020 4:18:13 PM 5.0 mg/Kg 1 Surr: BFB 97.6 66.6-105 %Rec 1 4/9/2020 4:18:13 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 mg/Kg 4/9/2020 4:18:13 PM 1 Toluene ND 0.050 mg/Kg 1 4/9/2020 4:18:13 PM Ethylbenzene ND 0.050 mg/Kg 1 4/9/2020 4:18:13 PM Xylenes, Total ND 0.099 mg/Kg 1 4/9/2020 4:18:13 PM Surr: 4-Bromofluorobenzene 97.8 80-120 %Rec 1 4/9/2020 4:18:13 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2100 60 4/9/2020 6:45:18 PM ma/Ka 20

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

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

Page 1 of 10

**CLIENT:** Devon Energy

Analytical Report Lab Order 2004251

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Client Sample ID: FS1.7 Collection Date: 4/4/2020 3:41:00 PM Received Date: 4/7/2020 8:25:00 AM

Lab ID: 2004251-002	Matrix: SOIL      Received Date: 4/7/2020 8:25:00 AM			20 8:25:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/9/2020 7:47:50 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/9/2020 7:47:50 AM
Surr: DNOP	93.3	55.1-146	%Rec	1	4/9/2020 7:47:50 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/9/2020 5:28:29 PM
Surr: BFB	94.3	66.6-105	%Rec	1	4/9/2020 5:28:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	4/9/2020 5:28:29 PM
Toluene	ND	0.047	mg/Kg	1	4/9/2020 5:28:29 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/9/2020 5:28:29 PM
Xylenes, Total	ND	0.093	mg/Kg	1	4/9/2020 5:28:29 PM
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	4/9/2020 5:28:29 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1100	60	mg/Kg	20	4/9/2020 6:57:38 PM

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

**Qualifiers:** 

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

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

Page 2 of 10

**Analytical Report** Lab Order 2004251

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy **Client Sample ID: FS2 Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 4/4/2020 3:06:00 PM Lab ID: 2004251-003 Matrix: SOIL Received Date: 4/7/2020 8:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 970 9.7 mg/Kg 1 4/9/2020 8:12:08 AM Motor Oil Range Organics (MRO) 760 49 mg/Kg 1 4/9/2020 8:12:08 AM Surr: DNOP 55.1-146 %Rec 1 4/9/2020 8:12:08 AM 119 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4/9/2020 6:39:20 PM 4.9 mg/Kg 1 Surr: BFB 94.7 66.6-105 %Rec 1 4/9/2020 6:39:20 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 mg/Kg 4/9/2020 6:39:20 PM 1 Toluene ND 0.049 mg/Kg 1 4/9/2020 6:39:20 PM Ethylbenzene ND 0.049 mg/Kg 1 4/9/2020 6:39:20 PM Xylenes, Total ND 0.099 mg/Kg 1 4/9/2020 6:39:20 PM Surr: 4-Bromofluorobenzene 96.2 80-120 %Rec 1 4/9/2020 6:39:20 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 600 60 4/10/2020 10:55:57 AM ma/Ka 20

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

Н Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit POL

Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

Page 3 of 10

**CLIENT:** Devon Energy

Lab ID:

2004251-004

Analytical Report Lab Order 2004251

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Date Reported: 4/13/2020 Client Sample ID: FS3 Collection Date: 4/4/2020 3:17:00 PM

Received Date: 4/7/2020 8:25:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/9/2020 8:36:20 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/9/2020 8:36:20 AM
Surr: DNOP	89.4	55.1-146	%Rec	1	4/9/2020 8:36:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/9/2020 7:02:52 PM
Surr: BFB	93.9	66.6-105	%Rec	1	4/9/2020 7:02:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	4/9/2020 7:02:52 PM
Toluene	ND	0.047	mg/Kg	1	4/9/2020 7:02:52 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/9/2020 7:02:52 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/9/2020 7:02:52 PM
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	4/9/2020 7:02:52 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	90	60	mg/Kg	20	4/10/2020 11:32:58 AM

Matrix: SOIL

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
  D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 4 of 10

Analytical Report Lab Order 2004251

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy **Client Sample ID: FS4 Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 4/4/2020 3:12:00 PM Lab ID: 2004251-005 Matrix: SOIL Received Date: 4/7/2020 8:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 37 9.7 mg/Kg 1 4/9/2020 9:00:49 AM Motor Oil Range Organics (MRO) 110 48 mg/Kg 1 4/9/2020 9:00:49 AM Surr: DNOP 78.5 55.1-146 %Rec 1 4/9/2020 9:00:49 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4/9/2020 8:36:23 PM 4.9 mg/Kg 1 Surr: BFB 95.6 66.6-105 %Rec 1 4/9/2020 8:36:23 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.025 mg/Kg 4/9/2020 8:36:23 PM 1 Toluene ND 0.049 mg/Kg 1 4/9/2020 8:36:23 PM Ethylbenzene ND 0.049 mg/Kg 1 4/9/2020 8:36:23 PM Xylenes, Total ND 0.098 mg/Kg 1 4/9/2020 8:36:23 PM Surr: 4-Bromofluorobenzene 97.1 80-120 %Rec 1 4/9/2020 8:36:23 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 170 60 4/10/2020 11:45:20 AM ma/Ka 20

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

**Qualifiers:** 

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

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

Page 5 of 10

**Analytical Report** Lab Order 2004251

Date Reported: 4/13/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy **Client Sample ID: FS5 Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 4/4/2020 3:19:00 PM Lab ID: 2004251-006 Matrix: SOIL Received Date: 4/7/2020 8:25:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 190 9.2 mg/Kg 1 4/9/2020 9:25:08 AM Motor Oil Range Organics (MRO) 150 46 mg/Kg 1 4/9/2020 9:25:08 AM Surr: DNOP 96.9 55.1-146 %Rec 1 4/9/2020 9:25:08 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4/9/2020 8:59:54 PM 4.9 mg/Kg 1 Surr: BFB 94.2 66.6-105 %Rec 1 4/9/2020 8:59:54 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.024 mg/Kg 4/9/2020 8:59:54 PM 1 Toluene ND 0.049 mg/Kg 1 4/9/2020 8:59:54 PM Ethylbenzene ND 0.049 mg/Kg 1 4/9/2020 8:59:54 PM Xylenes, Total ND 0.098 mg/Kg 1 4/9/2020 8:59:54 PM Surr: 4-Bromofluorobenzene 95.4 80-120 %Rec 1 4/9/2020 8:59:54 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 160 60 4/10/2020 11:57:41 AM ma/Ka 20

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

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

Page 6 of 10

	WO#:	2004251
Hall Environmental Analysis Laboratory, Inc.		13-Apr-20
	-	

Client:	Devon Energy									
Project:	Ice Dancer 30	Fed Com 2	2H (Feb 2019	))						
Sample ID: MB-	51683 S	ampType: <b>r</b>	nblk	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID: PBS		Batch ID: 5	51683	R	RunNo: 68	3004				
Prep Date: 4/9	<b>/2020</b> Anal	ysis Date:	4/9/2020	S	SeqNo: 23	350088	Units: mg/Kg	g		
Analyte Chloride	Re	sult PQL ND 1.		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
			-							
Sample ID: MB-	51707 S	ampType: r	nbik	les	tCode: EF	A Method	300.0: Anions	5		
Client ID: PBS		Batch ID: 5	51707	R	RunNo: 68	3013				
Prep Date: 4/1	<b>0/2020</b> Anal	ysis Date:	4/10/2020	S	SeqNo: 23	351082	Units: mg/Kg	g		
Analyte	Re	sult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.	5							
Sample ID: LCS	<b>-51707</b> S	ampType: I	cs	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID: LCS	S	Batch ID:	51707	R	RunNo: 68	3013				
Prep Date: 4/1	<b>0/2020</b> Anal	ysis Date:	4/10/2020	S	SeqNo: 23	351083	Units: mg/K	g		
Analyte	Res	sult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.	5 15.00	0	93.3	90	110			

Qualifiers:

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

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

Page 7 of 10

## **OC SUMMARY REPORT** H

Page	31	01	F 90	
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WO#:	2004251
Hall Environmental Analysis Laboratory, Inc.	13-Apr-20

Client:DevonProject:Ice Dar	Energy ncer 30 Fed (	Com 2H	I (Feb 2019	)						
Sample ID: LCS-51634	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 51	634	F	RunNo: 67	7900				
Prep Date: 4/7/2020	Analysis D	ate: 4/	9/2020	S	SeqNo: 2	348958	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	70	130			
Surr: DNOP	3.7		5.000		74.0	55.1	146			
Sample ID: MB-51634	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 51	634	F	RunNo: 67	7900				
Prep Date: 4/7/2020	Analysis D	ate: 4/	9/2020	S	SeqNo: 2	348959	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.9	55.1	146			

Qualifiers:

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

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

Page 8 of 10

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# **QC SUMMARY REPORT** Ha

L SUMINIARI KEPURI	WO#:	2004251
Iall Environmental Analysis Laboratory, Inc.		13-Apr-20

Client:Devon EProject:Ice Dand	Cnergy cer 30 Fed Co	om 2H	I (Feb 2019	)						
Sample ID: 2004251-001AMS	DG SampTy	pe: MS	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: FS1.2	Batch I	D: <b>51</b>	628	F	RunNo: 68	8006				
Prep Date: 4/7/2020	Analysis Da	te: 4/	9/2020	5	SeqNo: 2	350197	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.41	0	91.7	69.1	142	0.897	20	
Surr: BFB	1000		976.6		102	66.6	105	0	0	
Sample ID: Ics-51628	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch I	D: <b>51</b>	628	F	RunNo: 68	8006				
Prep Date: 4/7/2020	Analysis Da	te: 4/	9/2020	S	SeqNo: 2350206 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	95.3	80	120			
Surr: BFB	1100		1000		108	66.6	105			S
Sample ID: mb-51628	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch I	D: 51	628	F	RunNo: 68	8006				
Prep Date: 4/7/2020	Analysis Da	te: 4/	9/2020	S	SeqNo: 2	350208	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.0	66.6	105			
Sample ID: 2004251-001AMS	G SampTy	pe: MS	6	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: FS1.2	Batch I	D: 51	628	F	RunNo: 68	8006				
Prep Date: 4/7/2020	Analysis Da	te: 4/	9/2020	S	SeqNo: 2	350338	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.20	0	93.4	69.1	142			
Surr: BFB	1100		968.1		109	66.6	105			S

#### **Qualifiers:**

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

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

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2004251

Client: Project:	Devon Er Ice Dance	•••	Com 2H	[ (Feb 2019	)							
Sample ID: 2	2004251-001ams	SampT	Гуре: МS	6	Tes	tCode: EF	PA Method	8021B: Vola	tiles			
Client ID:	FS1.2	Batc	h ID: 510	628	F	RunNo: 68	8006					
Prep Date:	4/7/2020	Analysis E	Date: 4/	9/2020	S	SeqNo: 2	350244	Units: mg/k	(a			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.78	0.023	0.9337	0 11 11 10 10	83.1	78.5	119	Joixi D		Quai	
Toluene		0.83	0.047	0.9337	0.01308	87.1	75.7	123				
Ethylbenzene		0.85	0.047	0.9337	0	91.1	74.3	126				
Xylenes, Total		2.6	0.093	2.801	0.01913	91.0	72.9	130				
Surr: 4-Bromo	fluorobenzene	0.90		0.9337		96.8	80	120				
Sample ID:	LCS-51628	SampT	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles			
Client ID:	LCSS	Batc	h ID: 510	628	F	RunNo: 6	3006					
Prep Date:	4/7/2020	Analysis E	Date: 4/	9/2020	S	SeqNo: 23	350255	Units: mg/k	ίg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.88	0.025	1.000	0	87.6	80	120				
Toluene		0.91	0.050	1.000	0	91.1	80	120				
Ethylbenzene		0.94	0.050	1.000	0	94.1	80	120				
Xylenes, Total		2.8	0.10	3.000	0	94.5	80	120				
Surr: 4-Bromo	ofluorobenzene	1.0		1.000		101	80	120				
Sample ID:	mb-51628	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles			
Client ID:	PBS	Batc	h ID: 510	628	RunNo: 68006							
Prep Date:	4/7/2020	Analysis E	Date: 4/	9/2020	S	SeqNo: 2	350257	Units: mg/k	٢g			
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-Bromo	ofluorobenzene	0.99		1.000		99.2	80	120				
Sample ID: 2	2004251-001AMSI	Samp1	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Vola	tiles			
Client ID:	FS1.2	Batc	h ID: 510	628		RunNo: <b>6</b>						
Prep Date:	4/7/2020	Analysis E	Date: 4/	9/2020	S	SeqNo: 2	350341	Units: mg/k	(g			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.83	0.025	0.9852	0	83.8	78.5	119	6.20	20		
Toluene		0.87	0.049	0.9852	0.01308	87.0	75.7	123	5.18	20		
Ethylbenzene		0.91	0.049	0.9852	0	92.0	74.3	126	6.39	20		
Xylenes, Total		2.7	0.099	2.956	0.01913	92.0	72.9	130	6.39	20		
0 1 0	ofluorobenzene	0.97		0.9852		98.3	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY				TE	ll Environmenta Al L: 505-345-397 Website: www.l	490 buquero 75 FAX:	01 Hawk que, NM 505-34.	ins NE 87109 5-4107	Sample Log-In Check List			
C	lient Name:	DEVON EN	IERGY	Work	Work Order Number: 2004251					RcptNo: 1		
Re	eceived By:	Juan Roja	IS	4/7/202	0 8:25:00 AM			Hun	nay			
Co	ompleted By:	Leah Baca	a	4/7/202	0 9:48:28 AM			1	Bar			
Re	eviewed By:	LB		4/7/2	υ			Laal	Jones			
Ch	ain of Cust	tody										
1.	Is Chain of Cu	stody suffici	ently complete	ə?		Yes		N	•	Not Present		
2.	How was the s	sample deliv	ered?			Clie	nt					
-	o <b>g In</b> Was an attem	pt made to c	cool the sampl	es?		Yes		N	•			
									_			
4. Were all samples received at a temperature of				ure of >0° C	to 6.0°C	Yes		N	₀ [_]			
5.	Sample(s) in p	roper contai	ner(s)?			Yes		N	•			
6. 8	Sufficient sam	ole volume f	or indicated te	st(s)?		Yes		No				
7.1	Are samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	$\checkmark$	No				
8. 1	Was preservat	ive added to	bottles?			Yes		No		NA 🗌		
9. F	Received at lea	ast 1 vial with	h headspace ·	<1/4" for AQ V	OA?	Yes		No		NA 🗹		
0.	Were any sam	ple containe	ers received b	oken?		Yes		N		# of preserved bottles checked		
	Does paperwo Note discrepa					Yes		No		for pH: (<2 or >12 unless noted)		
2.1	Are matrices c	orrectly iden	tified on Chair	of Custody?		Yes		No		Adjusted?		
3.1	s it clear what	analyses we	ere requested	2		Yes		No				
	Were all holdin (If no, notify cu					Yes		No		Checked by: DAD 4/7/20		
pe	cial Handli	ng (if app	licable)									
15.	Was client not	ified of all di	screpancies v	vith this order?	)	Yes		N	•	NA 🗹		
	Person I By Who Regardin Client In	m: J			Date:   Via:	🗌 eM	ail 🗌	Phone [	] Fax	In Person		
16.	Additional ren							_				
	Cooler Inform											
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	By	h. I		
	1	1.5	Good			20010	-17-	orginet				
	2	2.5	Good									

Page 1 of 1

Released to Imaging: 6/7/2021 3:59:57 PM



May 04, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Ice Dancer 2019

OrderNo.: 2004B04

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/25/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004B04

Date Reported: 5/4/2020

CLIENT: Devon Energy	Client Sample ID: 1										
<b>Project:</b> Ice Dancer 2019	<b>Collection Date:</b> 4/23/2020 2:19:00 PM										
Lab ID: 2004B04-001	Matrix: SOIL		Received Da	<b>te:</b> 4/2	25/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	CAS					
Chloride	ND	60	mg/Kg	20	4/29/2020 3:31:08 PM	52154					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM					
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/28/2020 11:57:58 PM	52109					
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2020 11:57:58 PM	52109					
Surr: DNOP	92.2	55.1-146	%Rec	1	4/28/2020 11:57:58 PM	52109					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2020 5:31:46 PM	52091					
Surr: BFB	103	66.6-105	%Rec	1	4/28/2020 5:31:46 PM	52091					
EPA METHOD 8021B: VOLATILES					Analyst	: NSB					
Benzene	ND	0.025	mg/Kg	1	4/28/2020 5:31:46 PM	52091					
Toluene	ND	0.050	mg/Kg	1	4/28/2020 5:31:46 PM	52091					
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2020 5:31:46 PM	52091					
Xylenes, Total	ND	0.10	mg/Kg	1	4/28/2020 5:31:46 PM	52091					
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	4/28/2020 5:31:46 PM	52091					

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

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

Page 1 of 8

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**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004B04

Date Reported: 5/4/2020

CLIENT: Devon Energy Project: Ice Dancer 2019	Client Sample ID: 2 Collection Date: 4/23/2020 2:21:00 PM								
Lab ID: 2004B04-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 4/2	25/2020 9:20:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	ND	60	mg/Kg	20	4/29/2020 4:08:21 PM	52154			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/29/2020 12:22:18 AM	52109			
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/29/2020 12:22:18 AM	52109			
Surr: DNOP	63.4	55.1-146	%Rec	1	4/29/2020 12:22:18 AM	52109			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2020 6:42:23 PM	52091			
Surr: BFB	102	66.6-105	%Rec	1	4/28/2020 6:42:23 PM	52091			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	4/28/2020 6:42:23 PM	52091			
Toluene	ND	0.050	mg/Kg	1	4/28/2020 6:42:23 PM	52091			
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2020 6:42:23 PM	52091			
Xylenes, Total	ND	0.099	mg/Kg	1	4/28/2020 6:42:23 PM	52091			
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	4/28/2020 6:42:23 PM	52091			

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

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

Page 2 of 8

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**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004B04

Date Reported: 5/4/2020

CLIENT: Devon Energy	Client Sample ID: 3									
<b>Project:</b> Ice Dancer 2019	<b>Collection Date:</b> 4/23/2020 2:23:00 PM									
Lab ID: 2004B04-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 4/2	25/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	59	mg/Kg	20	4/29/2020 4:20:46 PM	52154				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/29/2020 12:46:30 AM	52109				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/29/2020 12:46:30 AM	52109				
Surr: DNOP	89.2	55.1-146	%Rec	1	4/29/2020 12:46:30 AM	52109				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2020 7:52:59 PM	52091				
Surr: BFB	102	66.6-105	%Rec	1	4/28/2020 7:52:59 PM	52091				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	4/28/2020 7:52:59 PM	52091				
Toluene	ND	0.050	mg/Kg	1	4/28/2020 7:52:59 PM	52091				
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2020 7:52:59 PM	52091				
Xylenes, Total	ND	0.10	mg/Kg	1	4/28/2020 7:52:59 PM	52091				
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	4/28/2020 7:52:59 PM	52091				

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

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

Page 3 of 8

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Client: Project:		n Energy ancer 2019									
Sample ID: M	IB-52154	SampT	ype: <b>m</b> t	olk	Tes	tCode: EF	A Method	300.0: Anion	s		
Client ID: P	BS	Batch	ID: 52	154	F	RunNo: <b>68</b>	3503				
Prep Date:	4/29/2020	Analysis Da	ate: 4/	29/2020	S	SeqNo: 23	371575	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-52154	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 52	154	RunNo: 68503						
Prep Date:	4/29/2020	Analysis Da	ate: 4/	29/2020	S	SeqNo: 23	371576	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.8	90	110			

Qualifiers:

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

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

Page 4 of 8

2004B04

04-May-20

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

Page	41	of 90

WO#:	2004B04

04-May-20

Client: Devon H	Energy						
Project: Ice Dan	cer 2019						
Sample ID: LCS-52108	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: <b>52108</b>	RunNo: 68466					
Prep Date: 4/27/2020	Analysis Date: 4/28/2020	SeqNo: 2369166	Units: %Rec				
Analyte	-	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	5.1 5.000	101 55.1	146				
Sample ID: MB-52108	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: <b>52108</b>	RunNo: 68466					
Prep Date: 4/27/2020	Analysis Date: 4/28/2020	SeqNo: 2369167	Units: % <b>Rec</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	10 10.00	99.8 55.1	146				
Sample ID: LCS-52109	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: <b>52109</b>	RunNo: 68466					
Prep Date: 4/27/2020	Analysis Date: 4/28/2020	SeqNo: 2369963	Units: <b>mg/Kg</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Diesel Range Organics (DRO)	51 10 50.00	0 102 70	130				
Surr: DNOP	3.1 5.000	62.8 55.1	146				
Sample ID: MB-52109	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 52109	RunNo: 68466					
Prep Date: 4/27/2020	Analysis Date: 4/28/2020	SeqNo: 2369964	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) Surr: DNOP	ND 50 6.6 10.00	66.4 55.1	146				
Sample ID: LCS-52153	SampType: LCS		8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 52153	RunNo: 68504					
Prep Date: 4/29/2020	Analysis Date: 4/29/2020	SeqNo: 2370383	Units: %Rec				
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	4.4 5.000	88.3 55.1	146				
Sample ID: MB-52153	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 52153	RunNo: 68504					
Prep Date: 4/29/2020	Analysis Date: 4/29/2020	SeqNo: 2370384	Units: %Rec				
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	9.8 10.00	97.7 55.1	146				

### Qualifiers:

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

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

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

Client: Project:	Devon Er Ice Dance										
Sample ID:	mb-52090	SampType	e: Me	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID	Batch ID: 52090			RunNo: 68490					
Prep Date:	4/26/2020	Analysis Date	: <b>4/</b> 2	28/2020	S	SeqNo: 2	369829	Units: %Rec			
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		103	66.6	105			
Sample ID:	lcs-52090	SampType	e: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch ID	: 52	090	F	RunNo: 6	8490				
Prep Date:	4/26/2020	Analysis Date	: <b>4/</b> :	28/2020	S	SeqNo: 2	369834	Units: %Rec			
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		111	66.6	105			S
Sample ID:	mb-52091	SampType	e: ME	BLK	Tes	tCode: E	PA Method	8015D: Gasol	line Rang	e	
Client ID:	PBS	Batch ID	: 52	091	F	RunNo: 6	8490				
Prep Date:	4/26/2020	Analysis Date	e: 4/2	28/2020	S	SeqNo: 2	369851	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0	4000		400	<u> </u>	405			
Surr: BFB		1000		1000		102	66.6	105			
Sample ID:	lcs-52091	SampType	e: <b>LC</b>	S	Tes	tCode: E	PA Method	8015D: Gasol	line Rang	e	
Client ID:		Batch ID	): 520	091	F	RunNo: 6	8490				
Prep Date:	4/26/2020	Analysis Date	e: <b>4/</b> 2	28/2020	S	SeqNo: 2	369852	Units: mg/K	g		
Analyte			PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	23 1100	5.0	25.00 1000	0	91.3 111	80 66.6	120 105			S
Suit. Di D		1100		1000		111	00.0	105			3
•	2004b04-002ams	SampType						8015D: Gasol	line Rang	e	
Client ID:		Batch ID				RunNo: 6					
Prep Date:	4/26/2020	Analysis Date	e: <b>4/</b> 2	28/2020	5	SeqNo: 2	369855	Units: mg/K	g		
Analyte			PQL		SPK Ref Val			HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	23 1100	5.0	24.93 997.0	0	92.8 113	80 66.6	120 105			S
Jun DI D						113	00.0	105			0
•	2004b04-002amsd							8015D: Gasol	line Rang	e	
Client ID:		Batch ID				RunNo: 6					
Prep Date:	4/26/2020	Analysis Date	e: <b>4/</b> 2	28/2020	S	SeqNo: 2	369856	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Analyte Result PQL SPK value SPK Ref Val Gasoline Range Organics (GRO) 20 5.0 24.90 Surr: BFB 996.0 1100

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

81.0

110

80

66.6

120

105

13.6

0

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

0

Page 6 of 8

20

0

S

2004B04

04-May-20

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

Client: Devon En Project: Ice Dance	•••									
Sample ID: mb-52090	SampT	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID: PBS		Batch ID: 52090			RunNo: 6	8490				
Prep Date: 4/26/2020	Analysis E	Date: 4/	28/2020	ç	SegNo: 2	369873	Units: %Rec			
					•			0/ 000		Qual
Analyte Surr: 4-Bromofluorobenzene	Result 1.0	PQL	1.000	SPK Ref Val	%REC 104	LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Sample ID: LCS-52090		Type: LC		Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 52	090	F	RunNo: 6	8490				
Prep Date: 4/26/2020	Analysis E	Date: 4/	28/2020	5	SeqNo: 2	369874	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			
Sample ID: mb-52091	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 52091			RunNo: <b>68490</b>						
Prep Date: 4/26/2020	Analysis E	Date: 4/	28/2020	S	SeqNo: 2	369887	Units: mg/Kg	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025					5			
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID: LCS-52091	SampT	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 52	091	F	RunNo: 6	8490				
Prep Date: 4/26/2020	Analysis E	Date: 4/	28/2020	5	SeqNo: 2	369888	Units: mg/Kg	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	88.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			
Sample ID: 2004b04-001ams	SampT	Гуре: М	6	Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID: 1	Batc	Batch ID: 52091 RunNo: 68490								
Prep Date: 4/26/2020	Analysis E	Date: 4/	28/2020	S	SeqNo: 2	369890	Units: mg/Kg	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.025	1.000	0	76.7	78.5	119			S
Toluene	0.78	0.050	1.000	0	78.5	75.7	123			
Ethylbenzene	0.79	0.050	1.000	0	78.8	74.3	126			
Xylenes Total	24	0 10	3 000	0	78.8	72 9	130			

### **Qualifiers:**

Xylenes, Total

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Released to Imaging: 6/7/2021 3:59:57 PM

2.4

0.10

3.000

в Analyte detected in the associated Method Blank

78.8

72.9

130

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

0

Page 7 of 8

04-May-20

2004B04

Devon Energy

Ice Dancer 2019

**Client:** 

**Project:** 

Sample ID: 2004b04-001ams

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

SampType: MS

|--|

	• •									
Client ID: 1	Batch	ID: 52	091	F	RunNo: 6	8490				
Prep Date: 4/26/2020	Analysis D	ate: 4/	28/2020	S	SeqNo: 2	369890	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			
Sample ID: 2004b04-001ams	d SampT	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: 1	Batch	ID: 52	091	F	RunNo: 6	8490				
Prep Date: 4/26/2020	Analysis D	ate: 4/	28/2020	S	SeqNo: 2	369891	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9970	0	82.2	78.5	119	6.59	20	
Toluene	0.84	0.050	0.9970	0	84.8	75.7	123	7.40	20	
Ethylbenzene	0.87	0.050	0.9970	0	86.8	74.3	126	9.40	20	
Xylenes, Total	2.6	0.10	2.991	0	86.5	72.9	130	9.11	20	
Surr: 4-Bromofluorobenzene	1.0		0.9970		104	80	120	0	0	

TestCode: EPA Method 8021B: Volatiles

**Qualifiers:** 

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

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

Page 8 of 8

2004B04

04-May-20

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505	ronmental Analy 49( Albuquerç -345-3975 FAX: e: www.hallenvi	1 Hawki ue, NM 8 505-345	ns NE 87109 <b>Sar</b> -4107	Sample Log-In Check Lis			
Client Name: DEVON ENERGY Work Orde	Number: 200	B04		RcptNo: 1			
Received By: Desiree Dominguez 4/25/2020 9:2	20:00 AM		TPZ				
Completed By: Desiree Dominguez 4/25/2020 10	:28:11 AM		TPA				
Reviewed By: Mry 25/20							
Chain of Custody							
1. Is Chain of Custody sufficiently complete?	Yes	$\checkmark$	No 🗌	Not Present			
2. How was the sample delivered?	Cou	ier					
Log In							
3. Was an attempt made to cool the samples?	Yes		No 🗌				
4. Were all samples received at a temperature of >0° C to 6.0	°C Yes	•	No 🗌				
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 🔽				
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 🔽	# of preserved			
11. Does paperwork match bottle labels?	Yes		No 🗌	bottles checked for pH:			
(Note discrepancies on chain of custody)	165	Č.		(<2 or ≥12 unless note			
12. Are matrices correctly identified on Chain of Custody?	Yes	~	No 🗌	Adjusted?			
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 🗌	Checked by: DAD 4/25/			
Special Handling (if applicable)							
15. Was client notified of all discrepancies with this order?	Yes		No 🗌	NA 🗹			
Person Notified:	Date:						
By Whom:	Via: 🗌 eMa	il 🗌 F	Phone 🗌 Fax	In Person			
Regarding:							
Client Instructions:							
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Temp ⁰C Condition Seal Intact Sea	No Seal D	te	Signed By	1			
1 3.9 Good Not Present	Gear D	ile ile	orgined by				

of 90

Page 1 of 1

	KSTS I ABORATORY		37109		4107		26:40 PN															also send the report to Annie McCawley &	age 46 o
		www.hallenvironmental.com	ule. N		Diversion Flags Section Sectio	hace	(fn92dA\	ue		1		1997 - A.S.	) 0728 Total C									4	ç
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	ANAL ENVI	) in a	Albu	l	Fa	*	*OS '*Od	5' 1	ON	18	_	-	CI) L'		X	X	1					e re	dwo
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	ANAL		4901 Hawkins NE		1el. 505-345-3975		SMIS	02	1827	0 (	310	by 8	sHA9	0					P			bhas	AHO
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			610					.011	awley HRL			0 0 13= 317 (U)	2004 BOY	100-	200-	-003						Date Time	Date Time 41/25/20 9:20
Time:	C Rush	ä	Ice Dancer 2019		5693		падег: Вупит	1.1	e Mcl	I LES	-	Cooler Lemp(including CF): S. & to .	Preservative Type	lce	lce	lce						Via: Via:	Via: Courtur
Turn-Around T	Standard	Project Name:	Ice Da	Project #:	20715693		Project Manager:		Sampler: Anni	011 ICE.	# of Coolers:	COOIER I EMP	Container Type and #	4026lass	Hor Glass	402 Glass						Received by:	Received by:
Chain-of-Custody Record	٨6-		38 Seven Rivers Nighman	TO COUT	Triesia, New Mexico 80211 home #: 580-248-1619		email or Fax#: นอพ. ชีวุกแพ เซ เชิงกา. เอพ QA/QC Package: ฮี่ Standard 🔤 Level 4 (Full Validation)		Az Compliance     Other				x Sample Name	4	2	3						Relinquished by:	uished by: Multing for
)-Jo-	Ener	wnu	849 ::	Nor	Man L	)-  -	wo wo		D Az				Matrix	Soil	Soil	Soil						Relinqu	Relinquished
hain	)eron	BU	Address	0.0	Els.		'ackage:		ation:		(Type)		Time	14:19	17:21	14:23						Time: 11:30	Time:
C	Client: Devon Energy	f	Mailing Address: 6488	4 40	Dhone #		QA/QC Package:		Accreditation:		EDD (Type)		Date	4/23/20 14:19	4/23/20 14:21	4/23/20						Date: Time: イ/24/2 II1:30	Date: U/24



June 02, 2020

Tom Bynum Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Ice Dancer 30 Fed Com 2H-Feb 2019

OrderNo.: 2005A44

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Bynum:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/23/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Ice Dancer 30 Fed Com 2H-Feb 2019

Lab Order 2005A44

Date Reported: 6/2/2020

Client Sample ID: SP-1 Collection Date: 5/20/2020 1:31:00 PM Received Date: 5/23/2020 8:00:00 AM

Lab ID:	2005A44-001	Matrix: SOIL	Receiv	ed Date:	5/23/2	020 8:00:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
EPA METH	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Ra	nge Organics (DRO)	ND	9.2	mg/Kg	1	5/29/2020 1:43:15 PM
Motor Oil	Range Organics (MRO)	ND	46	mg/Kg	1	5/29/2020 1:43:15 PM
Surr: D	NOP	57.5	55.1-146	%Rec	1	5/29/2020 1:43:15 PM
EPA METH	HOD 300.0: ANIONS					Analyst: MRA
Chloride		ND	60	mg/Kg	20	6/1/2020 2:41:58 PM
EPA METH	HOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzene		ND	0.023	mg/Kg	1	5/27/2020 8:22:39 PM
Toluene		ND	0.047	mg/Kg	1	5/27/2020 8:22:39 PM
Ethylbenz	ene	ND	0.047	mg/Kg	1	5/27/2020 8:22:39 PM
Xylenes, 7	Fotal	ND	0.093	mg/Kg	1	5/27/2020 8:22:39 PM
Surr: 1,	2-Dichloroethane-d4	93.4	70-130	%Rec	1	5/27/2020 8:22:39 PM
Surr: 4-	Bromofluorobenzene	96.0	70-130	%Rec	1	5/27/2020 8:22:39 PM
Surr: Di	ibromofluoromethane	99.1	70-130	%Rec	1	5/27/2020 8:22:39 PM
Surr: To	oluene-d8	97.2	70-130	%Rec	1	5/27/2020 8:22:39 PM
EPA METH	HOD 8015D MOD: GASOLI	NE RANGE				Analyst: RAA
Gasoline I	Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2020 8:22:39 PM
Surr: Bl	FB	103	70-130	%Rec	1	5/27/2020 8:22:39 PM

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

Qualifiers:

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

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

Page 1 of 9

Lab ID:

Project: Ice Dancer 30 Fed Com 2H-Feb 2019

2005A44-002

Analytical Report Lab Order 2005A44

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2020

Client Sample ID: SP-2 Collection Date: 5/20/2020 1:36:00 PM Received Date: 5/23/2020 8:00:00 AM

20001111002				0/20/2	020 0100100 1101
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/29/2020 2:31:39 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/29/2020 2:31:39 PM
Surr: DNOP	75.1	55.1-146	%Rec	1	5/29/2020 2:31:39 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	6/1/2020 2:54:23 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/27/2020 8:52:06 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2020 8:52:06 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2020 8:52:06 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2020 8:52:06 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	1	5/27/2020 8:52:06 PM
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	5/27/2020 8:52:06 PM
Surr: Dibromofluoromethane	99.0	70-130	%Rec	1	5/27/2020 8:52:06 PM
Surr: Toluene-d8	101	70-130	%Rec	1	5/27/2020 8:52:06 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2020 8:52:06 PM
Surr: BFB	106	70-130	%Rec	1	5/27/2020 8:52:06 PM

Matrix: SOIL

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 9

Project:

Analytical Report Lab Order 2005A44

### Hall Environmental Analysis Laboratory, Inc.

Ice Dancer 30 Fed Com 2H-Feb 2019

Date Reported: 6/2/2020

Client Sample ID: SP-3 Collection Date: 5/20/2020 1:41:00 PM Received Date: 5/23/2020 8:00:00 AM

Lab ID: 2005A44-003	Matrix: SOIL	Recei	ved Date:	5/23/2	2020 8:00:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	14	9.6	mg/Kg	1	5/29/2020 2:55:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/29/2020 2:55:52 PM
Surr: DNOP	78.0	55.1-146	%Rec	1	5/29/2020 2:55:52 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	59	mg/Kg	20	6/1/2020 3:06:48 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	5/27/2020 11:46:45 PM
Toluene	ND	0.047	mg/Kg	1	5/27/2020 11:46:45 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2020 11:46:45 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2020 11:46:45 PM
Surr: 1,2-Dichloroethane-d4	99.8	70-130	%Rec	1	5/27/2020 11:46:45 PM
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	5/27/2020 11:46:45 PM
Surr: Dibromofluoromethane	101	70-130	%Rec	1	5/27/2020 11:46:45 PM
Surr: Toluene-d8	98.9	70-130	%Rec	1	5/27/2020 11:46:45 PM
EPA METHOD 8015D MOD: GASOL	NE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2020 11:46:45 PM
Surr: BFB	101	70-130	%Rec	1	5/27/2020 11:46:45 PM

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

**Qualifiers:** 

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

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

Page 3 of 9

2005A44-004

**Project:** 

Lab ID:

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Ice Dancer 30 Fed Com 2H-Feb 2019

Lab Order **2005A44** 

Date Reported: 6/2/2020

Client Sample ID: SP-4 Collection Date: 5/20/2020 1:45:00 PM Pageived Date: 5/22/2020 8:00:00 AM

Received Date: 5/23/2020 8:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/29/2020 3:19:58 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/29/2020 3:19:58 PM
Surr: DNOP	68.7	55.1-146	%Rec	1	5/29/2020 3:19:58 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	97	60	mg/Kg	20	6/1/2020 3:19:12 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/28/2020 12:16:10 AM
Toluene	ND	0.048	mg/Kg	1	5/28/2020 12:16:10 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/28/2020 12:16:10 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2020 12:16:10 AM
Surr: 1,2-Dichloroethane-d4	99.9	70-130	%Rec	1	5/28/2020 12:16:10 AM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/28/2020 12:16:10 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	5/28/2020 12:16:10 AM
Surr: Toluene-d8	100	70-130	%Rec	1	5/28/2020 12:16:10 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/28/2020 12:16:10 AM
Surr: BFB	103	70-130	%Rec	1	5/28/2020 12:16:10 AM

Matrix: SOIL

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 4 of 9

2005A44-005

Project:

Lab ID:

Analytical Report Lab Order 2005A44

### Hall Environmental Analysis Laboratory, Inc.

Ice Dancer 30 Fed Com 2H-Feb 2019

Date Reported: 6/2/2020 Client Sample ID: SP-5-12" Collection Date: 5/20/2020 2:58:00 PM Received Date: 5/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: BRM
Diesel Range Organics (DRO)	2900	88		mg/Kg	10	5/29/2020 3:44:08 PM
Motor Oil Range Organics (MRO)	1900	440		mg/Kg	10	5/29/2020 3:44:08 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/29/2020 3:44:08 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	800	60		mg/Kg	20	6/1/2020 3:31:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.12	D	mg/Kg	5	5/28/2020 12:45:39 AM
Toluene	ND	0.24	D	mg/Kg	5	5/28/2020 12:45:39 AM
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2020 12:45:39 AM
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2020 12:45:39 AM
Surr: 1,2-Dichloroethane-d4	99.0	70-130	D	%Rec	5	5/28/2020 12:45:39 AM
Surr: 4-Bromofluorobenzene	98.0	70-130	D	%Rec	5	5/28/2020 12:45:39 AM
Surr: Dibromofluoromethane	102	70-130	D	%Rec	5	5/28/2020 12:45:39 AM
Surr: Toluene-d8	94.8	70-130	D	%Rec	5	5/28/2020 12:45:39 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2020 12:45:39 AM
Surr: BFB	102	70-130	D	%Rec	5	5/28/2020 12:45:39 AM

Matrix: SOIL

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 5 of 9

Client ID: LCSS

Analyte Chloride

Prep Date: 6/1/2020

# **QC SUMMARY REPORT**

Batch ID: 52800

Analysis Date: 6/1/2020

1.5

15.00

Result

14

L.	mental Analysis Laboratory, Inc.	WO#: 2005A44 02-Jun-20
Client: Project:	Devon Energy Ice Dancer 30 Fed Com 2H-Feb 2019	
Sample ID: MB-528	00 SampType: mblk TestCode	de: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 52800 RunNo	lo: <b>69292</b>
Prep Date: 6/1/20	Analysis Date: 6/1/2020 SeqNo	lo: 2403563 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %R	REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-52	300 SampType: Ics TestCode	e: EPA Method 300.0: Anions

PQL SPK value SPK Ref Val %REC LowLimit

0

RunNo: 69292

93.6

SeqNo: 2403565

Units: mg/Kg

110

%RPD

RPDLimit

Qual

HighLimit

90

**Qualifiers:** 

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

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

Page 6 of 9

# **QC SUMMARY REPORT** Hall E

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	WO#:	2005A44	
Environmental Analysis Laboratory, Inc.		02-Jun-20	

	on Energy Dancer 30 Fed	Com 2H	I-Feb 2019							
Sample ID: LCS-52738	Samp	Туре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Bato	ch ID: 52	738	R	unNo: 69	<b>9198</b>				
Prep Date: 5/28/2020	Analysis I	Date: 5/	29/2020	S	eqNo: 2	399901	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP	4.6		5.000		92.5	55.1	146			
Sample ID: MB-52738	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Bato	ch ID: 52	738	R	unNo: 69	9198				
Prep Date: 5/28/2020	Analysis I	Date: 5/	29/2020	S	eqNo: 2	399902	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MR	0) ND	50								
Surr: DNOP	10		10.00		101	55.1	146			

### **Qualifiers:**

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

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

Page 7 of 9

Released to Imaging: 6/7/2021 3:59:57 PM

Devon Energy

**Client:** 

**Project:** 

Sample ID: LCS-52674

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

Ice Dancer 30 Fed Com 2H-Feb 2019

SampType: LCS4

Client ID: BatchQC	Batcl	n ID: 52	674	F	RunNo: 69	9165				
Prep Date: 5/25/2020	Analysis D	)ate: 5/2	27/2020	S	SeqNo: 2	397013	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.1	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			
	52674 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List									
Sample ID: mb-52674	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Sample ID: mb-52674 Client ID: PBS		ype: <b>ME</b> 1 ID: <b>52</b>			tCode: Ef		8260B: Volat	iles Short	List	
		n ID: 520	674	F		9165	8260B: Volat Units: mg/K		List	
Client ID: <b>PBS</b>	Batcl	n ID: 520	674 27/2020	F	RunNo: 6	9165			<b>List</b> RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b>	Batcl Analysis D	n ID: <b>52</b> ( )ate: <b>5/</b>	674 27/2020	F	RunNo: 69 SeqNo: 23	9165 397014	Units: mg/K	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte	Batcl Analysis D Result	n ID: <b>52</b> Date: <b>5/</b> PQL	674 27/2020	F	RunNo: 69 SeqNo: 23	9165 397014	Units: mg/K	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte Benzene	Batcl Analysis E Result ND	n ID: <b>52</b> Date: <b>5</b> /2 PQL 0.025	674 27/2020	F	RunNo: 69 SeqNo: 23	9165 397014	Units: mg/K	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte Benzene Toluene	Batcl Analysis E Result ND ND	Date: 5/2 PQL 0.025 0.050	674 27/2020	F	RunNo: 69 SeqNo: 23	9165 397014	Units: mg/K	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte Benzene Toluene Ethylbenzene	Batcl Analysis E Result ND ND ND	Date: 5/2 PQL 0.025 0.050 0.050	674 27/2020	F	RunNo: 69 SeqNo: 23	9165 397014	Units: mg/K	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batcl Analysis E Result ND ND ND ND	Date: 5/2 PQL 0.025 0.050 0.050	674 27/2020 SPK value	F	RunNo: 69 SeqNo: 2: %REC	9165 397014 LowLimit	Units: <b>mg/K</b> HighLimit	íg		Qual
Client ID: <b>PBS</b> Prep Date: <b>5/25/2020</b> Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Analysis D Result ND ND ND ND 0.46	Date: 5/2 PQL 0.025 0.050 0.050	674 27/2020 SPK value 0.5000	F	8unNo: 69 SeqNo: 2: %REC 92.5	2165 397014 LowLimit 70	Units: <b>mg/K</b> HighLimit 130	íg		Qual

TestCode: EPA Method 8260B: Volatiles Short List

**Qualifiers:** 

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

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

WO#: 2005A44

02-Jun-20

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page 5	6 O	f 9	0
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	WO#:	2005A44	
ental Analysis Laboratory, Inc.		02-Jun-20	

Client:Devon FProject:Ice Dame	Energy cer 30 Fed (	Com 2H	I-Feb 2019							
Sample ID: Ics-52674	S	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	ent ID: LCSS Batch ID: 52674			F	RunNo: 6	9165				
Prep Date: 5/25/2020	Analysis D	ate: 5/	27/2020	S	SeqNo: 2	397020	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	70	130			
Surr: BFB	550		500.0		110	70	130			
Sample ID: mb-52674	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch	n ID: 52	674	F	RunNo: 6	9165				
Prep Date: 5/25/2020	Analysis D	)ate: 5/	27/2020	S	SeqNo: 2	397021	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	550		500.0		109	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	490 uquerq FAX:	1 Hawk ue, NM 505-345	ins NE 87109 <b>Sa</b> 5-4107	Sample Log-In Check List				
Client Name: DEVON ENERGY	Work Order Number	: 200	5A44		RcptNo: 1				
Received By: Juan Rojas 5	;/23/2020 8:00:00 AM			quanta	9				
	/23/2020 9:03:03 AM			Guara	4				
Reviewed By: @ 05/23/20				/ 2					
Chain of Custody									
1. Is Chain of Custody complete?		Yes	~	No 🗌	Not Present				
2. How was the sample delivered?		Cou	ier						
Log In									
3. Was an attempt made to cool the samples?		Yes	~	No 🗌	] NA □				
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes	•	No 🗌	NA 🗆				
5. Sample(s) in proper container(s)?		Yes		No 🗌	l.				
6. Sufficient sample volume for indicated test(s)?		Yes	~	No 🗌					
7. Are samples (except VOA and ONG) properly p	reserved?	Yes	~	No 🗌					
8. Was preservative added to bottles?		Yes		No 🔽	NA 🗔				
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA?	Yes		No 🗌	NA 🔽				
0. Were any sample containers received broken?		Yes		No 🗸					
					# of preserved bottles checked				
1. Does paperwork match bottle labels?		Yes	~	No 🗌	for pH:				
(Note discrepancies on chain of custody)				N- 1	(<2 or >12 unless note Adjusted?				
2. Are matrices correctly identified on Chain of Cus	1	Yes		No 🗌					
<ul><li>3. Is it clear what analyses were requested?</li><li>4. Were all holding times able to be met?</li></ul>		Yes Yes			Checked by: 10 5 23				
(If no, notify customer for authorization.)		res	V		Checked by. JY 3 [C] [				
Special Handling (if applicable)									
15. Was client notified of all discrepancies with this	order?	Yes		No 🗌	NA 🗹				
Person Notified:	Date								
By Whom:	Via:	eMa	il 🗌	Phone 🗌 Fa	x 🔲 In Person				
Regarding:									
Client Instructions:		-	-						
16. Additional remarks:									
17 Cooler Information									
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal I	ntact Seal No S	eal Da	te	Signed By	i i				
1 0.8 Good			-	- 31.03 03					

Page 1 of 1

( of ) =	eceive TAL				0/20		.20.4															14 + 100 21	alytical report.
Park			www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	⁺OS S S	PO4, SIMS	DRC 3270 3270 1) 2270	V OF 59/8( 504. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	461 9651 97 8 M 8 M 8 M 8 M 8 M	TPH:80 8081 P PAHs b RCRA 61)F, I 8260 (/ 8270 (5 701al C	XX	Х Х	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	X				Remarks: Pleuse also send m	ssibility. Any sub-contracted data will be clearly notated on the and
	Turn-Around Time: 5000	Standard D Rush	Project Name: (Le Dancert Fol	Com 24 - FC6 2019	Project #:	66931202		Dittol	Campler:	LAYes D No	olers: (	Cooler Temp(including CF): ひち-ひこひ S (°C) を	Container Preservative HEAL No.	c 1ce -001	1 (P	Glass Icc	10	6/05 1 CC				Received by: Wia: Date Time Re Received by: Via: Date Time Re	1900 CMM F M rouge s123120 6.00
	Chain-of-Custody Record	Client: Device	6	Aailing Address: ( 488 Seven Rivers Heven	11	1-14-02	tern bynum Odun	ige:	L Standard Level 4 (Full Validation)		(pe)		Time Matrix Sample Name	LIZITI SAL SP-1	Col 5P-2	12:41 SAL	12.4C Sril SD-	14.58	3			Date: Time: Relinquished by: S/2/6800 Tayly Elucal	Phil 1900 CNUMU SAN



Attachment C

Photographs





View to the northwest

View to the northeast





View to the west

View to the southwest





View to the east

View to the northeast





View to the southwest

View to the south

Received by OCD: 1/28/2021 3:26:40 PM

Page 64 of 90

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Attachment D

## **Confirmation Sampling Analytical Report**



January 05, 2021

Lupe Carrasco Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX:

RE: Ice Dancer 30 Fed Com 2H (Feb 2019)

OrderNo.: 2012992

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Lupe Carrasco:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/18/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2012992

Date Reported: 1/5/2021

1/4/2021 6:16:48 PM

## Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Devon Energy		Client Sample ID: 2-S1								
Project:	Ice Dancer 30 Fed Com 2H	(Feb 2019)	Collection Date: 12/15/2020 2:09:00 PM								
Lab ID:	2012992-001	Matrix: SOIL	<b>Received Date:</b> 12/18/2020 2:10:00 PM								
Analyses		Result	RL	Qual Units	DF	Date Analyzed					
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM					
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	12/23/2020 1:22:42 PM					
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	12/23/2020 1:22:42 PM					
Surr: [	DNOP	107	30.4-154	%Rec	1	12/23/2020 1:22:42 PM					
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst: NSB					
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2020 4:41:24 PM					
Surr: E	BFB	87.8	75.3-105	%Rec	1	12/21/2020 4:41:24 PM					
EPA MET	HOD 8021B: VOLATILES					Analyst: NSB					
Benzene		ND	0.025	mg/Kg	1	12/21/2020 4:41:24 PM					
Toluene		ND	0.049	mg/Kg	1	12/21/2020 4:41:24 PM					
Ethylben	zene	ND	0.049	mg/Kg	1	12/21/2020 4:41:24 PM					
Xylenes,	Total	ND	0.098	mg/Kg	1	12/21/2020 4:41:24 PM					
Surr: 4	4-Bromofluorobenzene	104	80-120	%Rec	1	12/21/2020 4:41:24 PM					
EPA MET	HOD 300.0: ANIONS					Analyst: VP					

93

60

mg/Kg

20

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

**Qualifiers:** 

Chloride

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

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

Page 1 of 13

**Analytical Report** Lab Order 2012992

Date Reported: 1/5/2021

1/4/2021 6:29:13 PM

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy **Client Sample ID: 2-S2 Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 12/15/2020 2:11:00 PM Lab ID: 2012992-002 Matrix: SOIL Received Date: 12/18/2020 2:10:00 PM Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM **Diesel Range Organics (DRO)** ND 9.3 mg/Kg 1 12/23/2020 1:46:29 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 12/23/2020 1:46:29 PM Surr: DNOP 30.4-154 %Rec 1 12/23/2020 1:46:29 PM 112 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/21/2020 5:04:39 PM 4.9 mg/Kg 1 Surr: BFB 75 3-105 %Rec 1 12/21/2020 5:04:39 PM

	30.0	75.5-105	/01/00	1	12/21/2020 3.04.391 10
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2020 5:04:39 PM
Toluene	ND	0.049	mg/Kg	1	12/21/2020 5:04:39 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2020 5:04:39 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2020 5:04:39 PM
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	12/21/2020 5:04:39 PM
EPA METHOD 300.0: ANIONS					Analyst: VP

210

60

ma/Ka

20

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

**Qualifiers:** 

Chloride

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

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

Page 2 of 13

**Analytical Report** Lab Order 2012992

Date Reported: 1/5/2021

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Client Sample ID: 2-S3 Collection Date: 12/15/2020 2:14:00 PM Received Date: 12/18/2020 2:10:00 PM

Lab ID: 2012992-003	Matrix: SOIL	Rece	<b>Received Date:</b> 12/18/2020 2:10:00 PM						
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/23/2020 2:10:30 PM				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/23/2020 2:10:30 PM				
Surr: DNOP	119	30.4-154	%Rec	1	12/23/2020 2:10:30 PM				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2020 5:28:18 PM				
Surr: BFB	88.6	75.3-105	%Rec	1	12/21/2020 5:28:18 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.024	mg/Kg	1	12/21/2020 5:28:18 PM				
Toluene	ND	0.049	mg/Kg	1	12/21/2020 5:28:18 PM				
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2020 5:28:18 PM				
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2020 5:28:18 PM				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	12/21/2020 5:28:18 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	ND	60	mg/Kg	20	1/4/2021 7:06:26 PM				

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

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

Page 3 of 13

Lab ID:

2012992-004

**Analytical Report** Lab Order 2012992

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Date Reported: 1/5/2021 **Client Sample ID: 2-S4** Collection Date: 12/15/2020 2:16:00 PM

Received Date: 12/18/2020 2:10:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/23/2020 2:34:17 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/23/2020 2:34:17 PM
Surr: DNOP	109	30.4-154	%Rec	1	12/23/2020 2:34:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2020 5:51:47 PM
Surr: BFB	86.5	75.3-105	%Rec	1	12/21/2020 5:51:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/21/2020 5:51:47 PM
Toluene	ND	0.049	mg/Kg	1	12/21/2020 5:51:47 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2020 5:51:47 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2020 5:51:47 PM
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	12/21/2020 5:51:47 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	59	mg/Kg	20	1/4/2021 7:18:51 PM

Matrix: SOIL

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

**Qualifiers:** 

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

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

Page 4 of 13

**Analytical Report** Lab Order 2012992

Date Reported: 1/5/2021

1/4/2021 7:31:16 PM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: 2-S6 **Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 12/15/2020 2:19:00 PM Lab ID: 2012992-005 Matrix: SOIL Received Date: 12/18/2020 2:10:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.0 mg/Kg 1 12/23/2020 2:58:13 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 12/23/2020 2:58:13 PM Surr: DNOP 30.4-154 %Rec 1 12/23/2020 2:58:13 PM 118 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/21/2020 6:15:17 PM 4.9 mg/Kg 1 Surr: BFB 86.7 75.3-105 %Rec 1 12/21/2020 6:15:17 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 12/21/2020 6:15:17 PM 1 Toluene ND 0.049 mg/Kg 1 12/21/2020 6:15:17 PM Ethylbenzene ND 0.049 mg/Kg 1 12/21/2020 6:15:17 PM Xylenes, Total ND 0.097 mg/Kg 1 12/21/2020 6:15:17 PM Surr: 4-Bromofluorobenzene 102 80-120 %Rec 1 12/21/2020 6:15:17 PM Analyst: VP **EPA METHOD 300.0: ANIONS** 

570

60

ma/Ka

20

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

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

Page 5 of 13

**Analytical Report** Lab Order 2012992

Date Reported: 1/5/2021

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Client Sample ID: 2-F1 Collection Date: 12/15/2020 2:24:00 PM Received Date: 12/18/2020 2:10:00 PM

Lab ID: 2012992-006	Matrix: SOIL	Recei	<b>Received Date:</b> 12/18/2020 2:10:00 PM						
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/23/2020 3:46:03 PM				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/23/2020 3:46:03 PM				
Surr: DNOP	105	30.4-154	%Rec	1	12/23/2020 3:46:03 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2020 6:38:47 PM				
Surr: BFB	87.9	75.3-105	%Rec	1	12/21/2020 6:38:47 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.025	mg/Kg	1	12/21/2020 6:38:47 PM				
Toluene	ND	0.050	mg/Kg	1	12/21/2020 6:38:47 PM				
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2020 6:38:47 PM				
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2020 6:38:47 PM				
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	12/21/2020 6:38:47 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	210	59	mg/Kg	20	1/4/2021 7:43:40 PM				

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

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

Page 6 of 13

Lab ID:

2012992-007

Analytical Report Lab Order 2012992

Date Reported: 1/5/2021

## Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

 Client Sample ID: 2-F2

 2019)
 Collection Date: 12/15/2020 2:27:00 PM

 Matrix: SOIL
 Received Date: 12/18/2020 2:10:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/23/2020 4:09:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/23/2020 4:09:51 PM
Surr: DNOP	99.8	30.4-154	%Rec	1	12/23/2020 4:09:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2020 7:02:19 PM
Surr: BFB	87.3	75.3-105	%Rec	1	12/21/2020 7:02:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/21/2020 7:02:19 PM
Toluene	ND	0.048	mg/Kg	1	12/21/2020 7:02:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2020 7:02:19 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2020 7:02:19 PM
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	12/21/2020 7:02:19 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	230	60	mg/Kg	20	1/5/2021 1:31:06 AM

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

**Qualifiers:** 

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

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

Page 7 of 13
Analytical Report Lab Order 2012992

Date Reported: 1/5/2021

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: 2-F3 **Project:** Ice Dancer 30 Fed Com 2H (Feb 2019) Collection Date: 12/15/2020 2:30:00 PM Lab ID: 2012992-008 Matrix: SOIL Received Date: 12/18/2020 2:10:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 12/23/2020 4:33:48 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 12/23/2020 4:33:48 PM Surr: DNOP 97.1 30.4-154 %Rec 1 12/23/2020 4:33:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/21/2020 7:25:52 PM 4.9 mg/Kg 1 Surr: BFB 87.8 75.3-105 %Rec 1 12/21/2020 7:25:52 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 12/21/2020 7:25:52 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 12/21/2020 7:25:52 PM Ethylbenzene ND 0.049 mg/Kg 1 12/21/2020 7:25:52 PM Xylenes, Total ND 0.098 mg/Kg 1 12/21/2020 7:25:52 PM 12/21/2020 7:25:52 PM Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1 Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 140 60 1/5/2021 1:43:30 AM ma/Ka 20

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

**Qualifiers:** 

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

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

Page 8 of 13

**CLIENT:** Devon Energy

Analytical Report Lab Order 2012992

Date Reported: 1/5/2021

#### Hall Environmental Analysis Laboratory, Inc.

**Project:** Ice Dancer 30 Fed Com 2H (Feb 2019)

Client Sample ID: 2-F4 Collection Date: 12/15/2020 2:32:00 PM Received Date: 12/18/2020 2:10:00 PM

Lab ID: 2012992-009	Matrix: SOIL	<b>Received Date:</b> 12/18/2020 2:10:00 PM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	12/23/2020 4:57:47 PM				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/23/2020 4:57:47 PM				
Surr: DNOP	111	30.4-154	%Rec	1	12/23/2020 4:57:47 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2020 7:49:23 PM				
Surr: BFB	86.9	75.3-105	%Rec	1	12/21/2020 7:49:23 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.025	mg/Kg	1	12/21/2020 7:49:23 PM				
Toluene	ND	0.050	mg/Kg	1	12/21/2020 7:49:23 PM				
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2020 7:49:23 PM				
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2020 7:49:23 PM				
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	12/21/2020 7:49:23 PM				
EPA METHOD 300.0: ANIONS					Analyst: VP				
Chloride	260	60	mg/Kg	20	1/5/2021 1:55:54 AM				

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

**Qualifiers:** 

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   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 9 of 13

Prep Date: 1/4/2021

# **QC SUMMARY REPORT** Hall Er

Analysis Date: 1/4/2021

L.		t REPORT tal Analysis Laborato	ry, Inc.	WO#:	2012992 05-Jan-21
Client: Project:	Devon I Ice Dan	Energy cer 30 Fed Com 2H (Feb 2019)			
Sample ID: M	B-57313	SampType: MBLK	TestCode: EPA Method 300.0: Anions		
Client ID: PE	BS	Batch ID: 57313	RunNo: 74375		

SeqNo: 2625460

Units: mg/Kg

Analyte Chloride	Result PQL SPK va ND 1.5	lue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID: LCS-57313	SampType: LCS	TestCode: EPA Method	1 300.0: Anions	
Client ID: LCSS	Batch ID: 57313	RunNo: <b>74375</b>		
Prep Date: 1/4/2021	Analysis Date: 1/4/2021	SeqNo: 2625461	Units: mg/Kg	
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15	00 0 97.2 90	110	
Sample ID: MB-57323	SampType: MBLK	TestCode: EPA Method	1 300.0: Anions	
Client ID: PBS	Batch ID: 57323	RunNo: 74375		
Prep Date: 1/4/2021	Analysis Date: 1/4/2021	SeqNo: 2625492	Units: mg/Kg	
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-57323	SampType: LCS	TestCode: EPA Method	1 300.0: Anions	
Client ID: LCSS	Batch ID: 57323	RunNo: 74375		
Prep Date: 1/4/2021	Analysis Date: 1/4/2021	SeqNo: 2625493	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15	00 0 97.0 90	110	

**Qualifiers:** 

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

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

Page 10 of 13

# **QC SUMMARY REPORT** H

Page	76	of 90	

	WO#:	2012992
Iall Environmental Analysis Laboratory, Inc.		05-Jan-21

	n Energy Pancer 30 Fed	Com 2H	I (Feb 2019	))						
Sample ID: LCS-57133	SampT	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 57	133	F	RunNo: 74	4229				
Prep Date: 12/21/2020	Analysis E	Date: 12	2/23/2020	S	SeqNo: 20	620340	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	68.9	141			
Surr: DNOP	4.9		5.000		98.7	30.4	154			
Sample ID: MB-57133	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batc	h ID: 57	133	F	RunNo: 74	4229				
Prep Date: 12/21/2020	Analysis E	Date: 12	2/23/2020	S	SeqNo: 20	620341	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO	) ND	50								
Surr: DNOP	11		10.00		110	30.4	154			

Qualifiers:

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

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

Page 11 of 13

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### **QC SUMMARY REPORT** Hall

L.		WO#: 201299	2
Hall Env	rironmental Analysis Laboratory, Inc.	05-Jan-2	1
Client:	Devon Energy		Ξ

Project: Ice Dan	icer 30 Fed (	Com 2H	l (Feb 2019	)						
Sample ID: mb-57111	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	h ID: 57	111	F	RunNo: 74	4163				
Prep Date: 12/19/2020	Analysis D	Date: 12	2/21/2020	S	SeqNo: 20	617096	Units: <b>mg/H</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 880	5.0	1000		87.8	75.3	105			
Sample ID: Ics-57111	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	h ID: 57	111	F	RunNo: 74	4163				
Prep Date: 12/19/2020	Analysis D	Date: 12	2/21/2020	S	SeqNo: 20	617097	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	72.5	106			
Surr: BFB	970		1000		97.1	75.3	105			

Qualifiers:

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- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 12 of 13

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

Page	<b>78</b>	of 90

WO#:	2012992
	05 1 21

05-Jan-21

	on Energy									
Project: Ice I	Dancer 30 Fed	Com 2H	I (Feb 2019	)						
Sample ID: mb-57111	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 57	111	F	RunNo: 7	4163				
Prep Date: 12/19/2020	Analysis [	Date: 12	2/21/2020	5	SeqNo: 2	617143	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
(ylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID: LCS-57111	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 57	111	F	RunNo: 7	4163				
Prep Date: 12/19/2020	Analysis [	Date: 12	2/21/2020	5	SeqNo: 2	617144	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120			
(ylenes, Total	2.9	0.10	3.000	0	95.3	80	120			

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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Page 13 of 13

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: cliem	490 Albuquero 3975 FAX:	01 Hawkins N 1ue. NM 8710 505-345-410	Έ 99 - 5 97	Sample Log-In Check List			
Client Name: Devon Energy	Work Order Num	ber: 201	2992			RcptNo: 1		
Received By: Scott Anderson	12/18/2020 2:10:00	D PM						
Completed By: Cheyenne Cason	12/18/2020 2:49:06	5 PM						
Reviewed By: Jn 12/18/20								
Chain of Custody								
1. Is Chain of Custody complete?		Yes		No		Not Present		
2. How was the sample delivered?		Clie	nt					
Log In 3. Was an attempt made to cool the samples?		Yes		No				
		100						
4. Were all samples received at a temperature of	f ≥0° C to 6.0°C	Yes		No				
5. Sample(s) in proper container(s)?		Yes		No				
<ol><li>Sufficient sample volume for indicated test(s)'</li></ol>	2	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 🗹		
0. Were any sample containers received broken	?	Yes		No		# of preserved bottles checked		
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		for pH: (<2 or >12 unless noted)		
2. Are matrices correctly identified on Chain of C	ustody?	Yes	$\checkmark$	No		Adjusted?		
3. Is it clear what analyses were requested?		Yes		No				
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by: SGC 12/18/20		
pecial Handling (if applicable)								
15. Was client notified of all discrepancies with the	is order?	Yes		No		NA 🗹		
Person Notified:	Date	1						
By Whom:	Via:	🗌 eM	ail 🗌 Phor	ne 🗌	] Fax	In Person		
Regarding: Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u>								
Cooler No         Temp °C         Condition         Sea           1         4.7         Good         Sea	al Intact Seal No	Seal D	ate Sig	gned	Ву			

Page 1 of 1

ceived by OCD: 1/28/2021 3.	26:40 PM										T	Page 80 of
L ENVIRONMENTAL LYSIS LABORATORY allenvironmental.com - Albuquerque, NM 87109 5 Fax 505-345-4107 Analysis Request	sals O <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> VOA) (fnesdat/hseent) (fnesdat/hseent)	RCRA 8 Mei 8260 (VOA) 8270 (Semi-	<b>)</b> ~	× >	X	X	X	X	×.	×		ares: also send report to linn Ohrleamp . Cam
Anal Anal www.ha 4901 Hawkins NE Tel. 505-345-3975	d 504.1) 10 or 8270SIMS	EDB (Metho 23 Vd aHA9				-	-	-			-	all of 140
01 Ha	des/8082 PCB's	8081 Pestici										2
			/	X	XX	X	X	×	X	×		Please (
	3E \ TMB's (8021)	I-C>	$\times$	×	$\times$	$\langle \times \rangle$	X	$\times$	$\times$	$\times$	-	
Client ush Fed Con 2H	RL No	HEAL NO.	080		COUS	C405	3000	0.007	008	60%		Date Time
Gas Gas 1730 8200	ager: CaraSco Linn , HI	D(including CF): H, L Preservative Type	None							>		via: CD6 12 Via:
Turn-Around Tim Oi) a Oi) a C Project Name: Project #: M M -138	tion) Project Manager: Sampler: J. Live Co Sampler: J. Live On Ice: Z.	Cooler Temp <sub>(including cr)</sub> . Container Preserva Type and # Type	1 402, jor	2				_		>		Received by: Received by:
Chain-of-Custody Record the Deven D	Lupe C. C. Crfa Sco Odvn .com	Matrix Sample Name		2-S2	2-23	2-56	2-FI	2-F2	2-F3	V 2-F4		Relinquished by: Relinquished by:
Urtess (Urtes)			_	41)	414	10/ h	424	421	130	132		S
Client: Devol Client: Devol Mailing Address: 6488 Outesia	email or Fax#: QA/QC Package: D Standard Accreditation: D NELAC	Date	50	-	1			7	-	*		Dates Time: Date: Time:



## Attachment E

## **Soil Disposal Manifests**

Released to Imaging: 6/7/2021 3:59:57 PM

Received by O Received by O ENVIRONMENT SOLUTIO Permian Basin		2021 3:26:4	Custome Custome Ordered AFE #: PO #: Manifest	#: 2 by: J #: 2 ate: 8 H T	DEVON ENERGY CRI2450 JULIE LINN 204816 3/17/2020 Halo Services MARINO F34	PRO	OUCTIOI	Bid #: Date: Generator: Generator #: Well Ser. #:	39473E	DOGEV NERGY P ER 30 FE	Page 82 of 90 RODUCTIC
Facility: CRI											
Product / Serv	lice					Qı	iantity U	<b>nits</b>			
Contaminated	Soil (RC	RA Exemp	ot)				20.00	yards			
	Cell	рН		Cond.		TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			<b>\$</b> }		/	
1988 regulatory X RCRA Exen _ RCRA Non- characteristics en amended. The f	hat accord determina npt: Oil Fi Exempt: ( stablished ollowing d	ling to the R tion, the abo eld wastes g Dil field wast in RCRA rep locumentatic	esource Conve describe enerated fro te which is gulations, 4 on is attache	nservat d wast om oil non-ha 0 CFR ed to de	tion and Recovery	n and p not exc sted ha ve-desc	roduction eed the mi zardous w ribed was	operations and nimum standar aste as defined te is non-hazard	are not mixe ds for waste in 40 CFR, j lous. (Check	d with non hazardous part 261, su the approp	-exempt waste by lbpart D, as
Driver/ Agent	Signatur	6			R360 Rep	reser	itative Si	gnature			
	/			_ '				,			
Customer App	oroval					/					
			Т	HIS	S IS NOT A	N IN		E!			
Approved By:	<u></u>			,	<u></u>	Da	ate:				

. P

266	TEXAS NON-HAZARDOUS		,
MENTAR	(PLEA)	SE PRINT) *REQUIRI	ED INFORMATION* ~ Name Phone No.
	GENE	RATOR	NO
يندي هي. اندري اندري ان		Permit/RRC No.	NO. 204813
To the Tage		Lease/Well	Ice Dancer 30 Fed Com?
rators Name Tours Name	100 Piver Hunter	Name & No.	Eddu
ress $(0788 \text{ WA})$	MI MILO HWY	County	caug
A CHESIA	111 88211	API No. Rig Name & No.	
State, zip <u>(LA TCHAC )</u> ne No.	<u> </u>	AFE/PO No.	W MM-138200.01. RA
	Nate/Service Joontification and Amalini		te type in barrels or cubic yards)
Based Muds	NON-INJEGTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Based Cuttings ter Based Muds	Washout Water (Non-Injectable)		
ter Based Cuttings	Completion Fluid/Flow back (Non-Injectable) Produced Water (Non-Injectable)	e)	
duced Formation Solids	Gathering Line Water/Waste (Non-Injectal	ole);	<b>^</b>
k Bottoms <sup>2</sup> Contaminated Soil	INTERNAL USE ONLY Truck Washout (exempt waste)	(	Dump Truck
Plant Waste			
STE GENERATION PROCESS:			
All not exempt F&	NON-EXEMPT E&P Waste/S P waste must be analysed and be below the th	ervice Identification and Amou eshold limits for toxicity (TCLP	Di-prove and the second s
			n Non-Exempt Waste List on back
NTITY	B - BARRELS		E-YARDS /16 yards E-EACH
		FR Part 261 or any applicable st	tate law. That each waste has been properly described, classified
aged, and is in proper condition for transportat	ion according to applicable regulation.	1.	n an
I KUKA EXEMPT:		oduction operations and are n	ot mixed with non-exempt waste (R360 Accepts certifications on a
load basis only			te been den bie de meteorielles established is DCDA regulations. A
RCRÃ NON-EXEMPT: Oil field waste 261.21-261.24	which is non-hazardous that does not exceed to or listed hazardous waste as defined by 40 CE	ne minimum standards for was	ste hazardous by characteristics established in RCRA regulations, 4 nded. The following documentation demonstrating the waste as no
		N. Dail 201, SUDDail D. as ailidi	
	itached. (Check the appropriate items as provid		10140~1_X00-585-
	tached. (Check the appropriate items as provid	led)	Dther (Provide Description Below) / 1910 - 585-
hazardous is al	tached. (Check the appropriate items as provid	led)	Denn 1- 400 - 385-
hazardous is al	ttached. (Check the appropriate items as provide tion RCRA Hazardous Waste	led)	Denn 1- 400 - 385-
hazardous is al	tached. (Check the appropriate items as provid	led)	Denn 1- 400 - 385-
hazardous is al	ttached. (Check the appropriate items as provide tion RCRA Hazardous Waste	led) Analysis [] ( <u>X - 1 7 - 20 20</u> <sub>DATE</sub>	Other (Provide Description Below) / (910) 903 Mulie (8747)
	ttached. (Check the appropriate items as provide tion RCRA Hazardous Waster AManda Darris	led) Analysis [] ( <u>X - 1 7 - 20 20</u> <sub>DATE</sub>	Other (Provide Description Below) / (910) 903 Mulie (8747)
hazardous is al MSDS Informa MSDS Informa (ARINT) AUTHORIZED AGENTS SIGNATURE	ttached. (Check the appropriate items as provide tion RCRA Hazardous Waster AManda Darris	led) Analysis	Other (Provide Description Below) / (910) 903 Mulie (8747)
Isporter's Hall Service	ttached. (Check the appropriate items as provide tion RCRA Hazardous Waster AManda Darris	led) Analysis	Other (Provide Description Below) / (910) 903 Mulie (8747)
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hazardous is al MSDS Informa MSDS IN MSDS Informa MSDS Informa MSDS IN MSDS IN	Amanda Paris Sinc, Koving N.M.	led) Analysis	Other (Provide Description Below) / (910) 903
hazardous is al MSDS Informa MSDS IN MSDS IN MSDS IN MSDS IN MSDS IN MSDS IN M	Amanda Paris Sinc, Koving N.M.	led) Analysis	Other (Provide Description Below) / (910) 903
hazardous is al MSDS Informa MSDS Informa MSDS Informa (PRINT) AUTHORIZED AGENTS SIGNATURE sporter's e HGL 5 Servicc HGL N 3rd 51 T93-0201	Amanda Paris Sinc, Koving N.M.	led) Analysis	Other (Provide Description Below) / (910) 903
hazardous is all $\square$ MSDS Informa MSDS Informa (Infirm) AUTHORIZED AGENTS SIGNATURE sporter's $\underline{Hal5Servicc}$ e ess $\underline{412N3rd51}$ the No. $\underline{793-0201}$ eby certify that the above named material(s), where $\underline{K}^{-1}7-2.0$	tached. (Check the appropriate items as provide tion RCRA Hazardous Waster AManda Dagis S; NC, Kabuin M.M. ras/were pigked up/at the Generator's site liste	led) Analysis	Other (Provide Description Below) / (910) 903
hazardous is al MSDS Informa MSDS Informa MSDS Informa terking AUTHORIZED AGENTS SIGNATURE sporter's e ess 412 N 3rd 51 eby certify that the above named material(5),w K=17-2.0 SHIPMENT DATE TRUCK TIME STAM	tached. (Check the appropriate items as provide tion RCRA Hazardous Waster AManda Dagis S; NC, Kabuin M.M. ras/were pigked up/at the Generator's site liste	led) Analysis	Other (Provide Description Below) / (910) 903
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	at the above listed material(s), is (a			Part 261 or any applicabl	le state law. That each wa	ste has been properly descr	ibed, classified and
	n proper condition for transportation	on according to appli	cable regulation.		and the second second	and the second second	
	Oil field wastes	generated from oil ar		duction operations and ar	e not mixed with non-exe	mpt waste (R360 Accepts ce	ertifications on a per
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A CONTRACTOR

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Page 6

Oil Conservation Division

Incident ID	NAB1904955555
District RP	
Facility ID	
Application ID	

Page 89 of 90

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Lupe Carrasco Title: Environmental Professional Signature: Lupe Carrasco Date: \_1/28/21\_\_\_\_\_ email: lupe.carrasco@dvn.com Telephone: (575) 748-0765 **OCD Only** Received by: Robert Hamlet Date: 6/7/2021 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Robert Hamlet</u> Date: <u>6/7/2021</u> Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	16104
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1904955555 ICE DANCER 30 FEDERAL COM #002H, thank you. This closure is approved.	6/7/2021

CONDITIONS

Page 90 of 90

Action 16104