



March 11, 2021

Mr. Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

RE: 2020 Annual Groundwater Report
Hilcorp Energy Company
Federal Gas Com H 1 – 3RP-110
San Juan County, New Mexico
Incident # NDGF0000010

Review of 2020 Annual Groundwater Report: Content satisfactory

1. Continue quarterly sampling from monitoring well MW-1 to examine BTEX concentrations in groundwater
2. Continue quarterly measurements for depth to groundwater in monitoring wells MW-1, MW-2, and MW-3R in 2021
3. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

Dear Mr. Smith:

Hilcorp Energy Company (Hilcorp) presents the following annual report discussing ground water monitoring activities conducted at the Federal Gas Com H 1 natural gas production well (Site) during 2020. Ground water was impacted by a release of produced water and condensate that occurred in 1999. Additional groundwater impact was identified during Site construction in 2005 that was determined to be the result of a former earthen pit. Hilcorp acquired the production well in August 2017 from XTO Energy Inc. (XTO), which previously acquired the well from Amoco Production Company (Amoco) in January 1998. The well was plugged and abandoned by XTO, but another production well is active at the Site. The Site is located in Unit C of Section 31 within Township 30N and R12W in San Juan County, New Mexico (Figure 1). Currently, there are three monitoring wells on site which are monitored quarterly. This report represents the results for 2020 monitoring events. A full history of this site can be found in the annual reports previously submitted.

Methodology

In 2020, quarterly depth to groundwater data were collected from monitoring wells MW-1, MW-2, and MW-3R. Quarterly groundwater samples were collected from groundwater monitoring well MW-1 during all four quarters of 2020. Groundwater samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, NM, and PACE Analytical in Mount Juliet, TN for analysis of BTEX by US EPA Method 8021B.

Static groundwater level monitoring included measuring depth to groundwater with a Keck oil/water interface probe. The interface probe was decontaminated with soap and rinsed with deionized water prior to each measurement.

The volume of groundwater in monitoring well MW-1 was calculated and a minimum of three well casing volumes of groundwater were purged from the monitoring well (unless the monitoring well purged dry) using a new disposable polyvinyl chloride (PVC) bailer or a dedicated PVC bailer. All purge water was disposed of into Hilcorp's on-site tanks. Once the monitoring well was purged, groundwater samples were collected by filling three 40-milliliter (mL) glass vials. The laboratory supplied vials were filled and capped with zero headspace to prevent degradation of the sample. Samples were labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. They were immediately sealed, packed on ice, and submitted for analysis of BTEX. Proper chain-of-custody (COC) procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analysis required, and sample collector's signature. Laboratory analytical reports are presented in Attachment 1.



Groundwater elevations measured during Site monitoring events in 2020 indicated the groundwater flows to the southeast. Figures 2, 3, 4, and 5 depict the quarterly groundwater elevations and groundwater analytical results for 2020. Table 1 presents groundwater elevation data.

Conclusions

During 2020, Benzene concentrations in monitoring well MW-1 exceeded the NMWQCC standard during the March, June, September and November sampling events with a concentration of 14 micrograms per liter ($\mu\text{g/L}$) in March, 8.4 ($\mu\text{g/L}$) in June, 15.3 ($\mu\text{g/L}$) in September and 7.5 $\mu\text{g/L}$ in November. Toluene, Ethylbenzene, and Total Xylenes concentrations in monitoring well MW-1 were compliant with NMWQCC standards during all sampling events. Table 2 presents the analytical results from groundwater samples collected in 2020.

Groundwater flow direction is consistent with historical observations, flowing to the southeast. For the Benzene impacts identified in MW-1 during the quarterly sampling events, the data suggest that as the groundwater table level fluctuates throughout the year, it comes into contact with the impacted material and causes elevated benzene concentrations to be present in groundwater.

Recommendations

Although quarterly events documented elevated benzene concentrations, continued quarterly sampling is recommended, as purging the monitoring well enhances oxygen content and natural attenuation. Hilcorp proposes continuing quarterly sampling for monitoring well MW-1 to monitor BTEX constituents for compliance with NMWQCC standards for eight consecutive quarters. At that time, final closure will be requested. Depth to groundwater in monitoring wells MW-1, MW-2, and MW-3R will be measured quarterly in 2021.

If you have any questions or comments regarding this work plan, do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Jennifer Deal'.

Jennifer Deal
Environmental Specialist
Hilcorp Energy Company – L48 West
jdeal@hilcorp.com
505-324-5128 – Office
505-801-6517 – Cell

Attachments:

- Figure 1-5
- Table 1
- Table 2
- Attachment 1 – Analytical Laboratory Reports

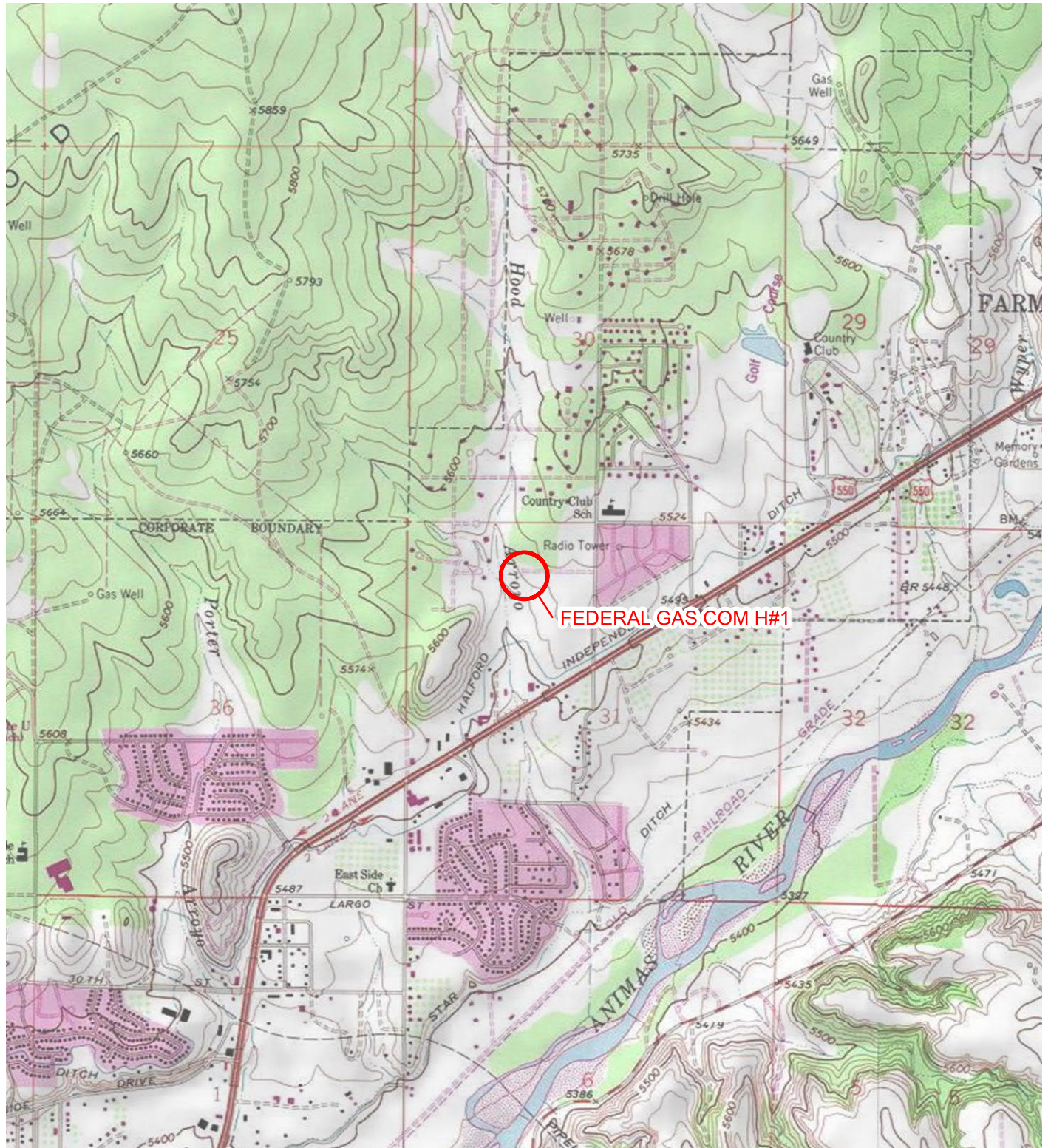


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

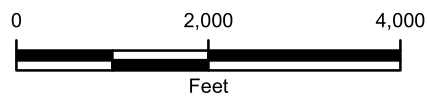
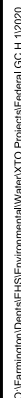
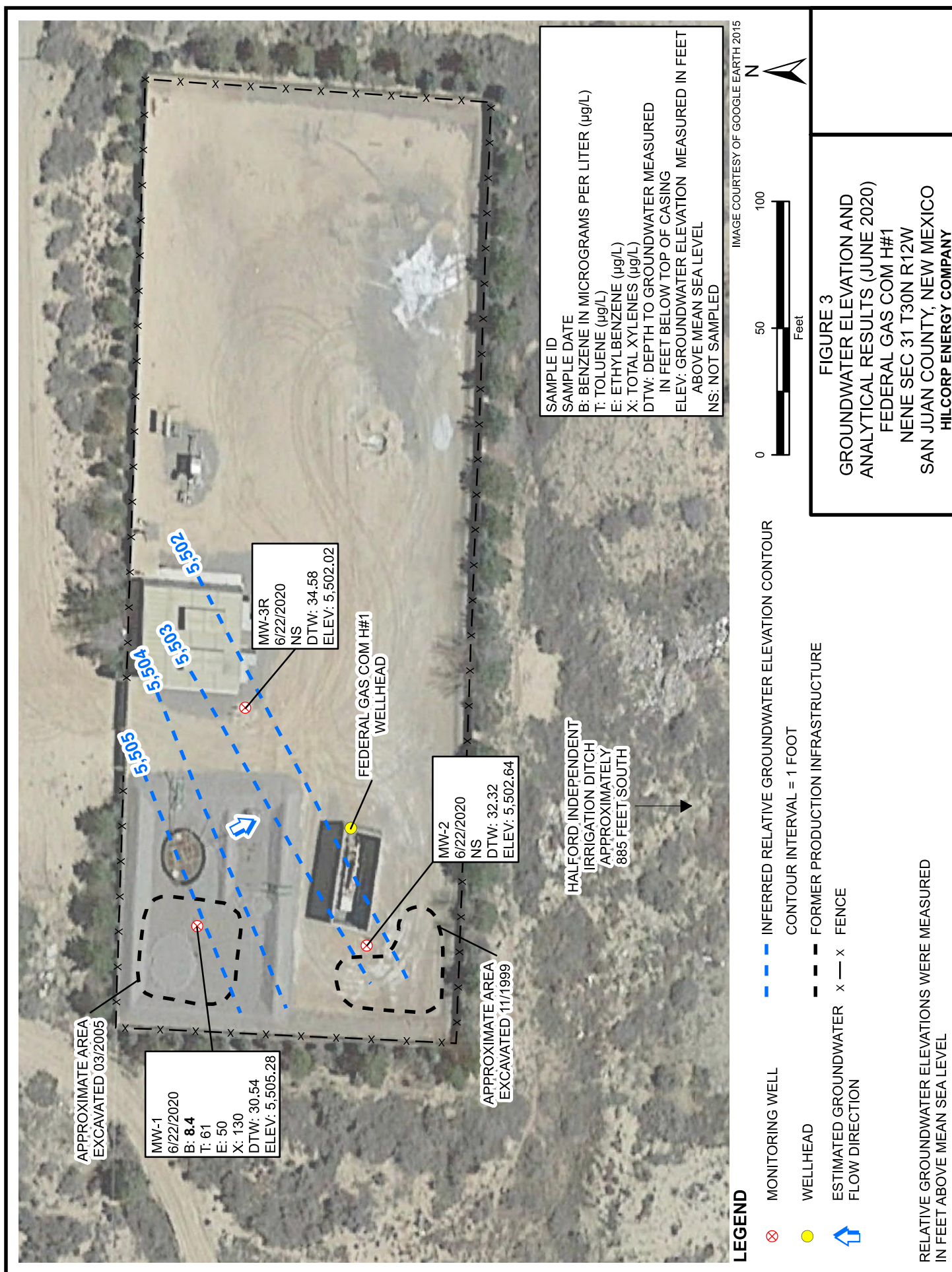
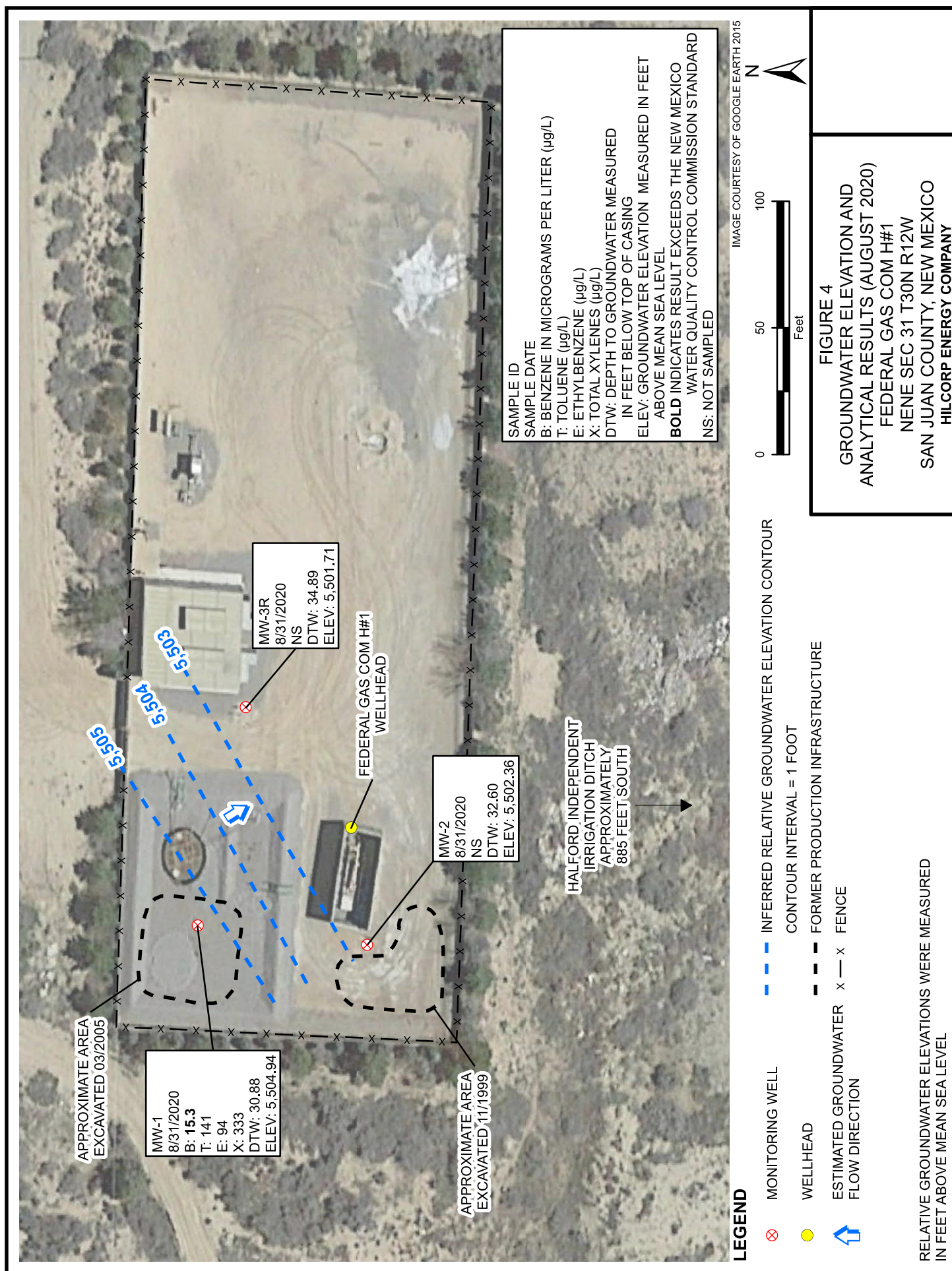


FIGURE 1
SITE LOCATION MAP
FEDERAL GAS COM H#1
NENW SEC 31 T30N R12W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY







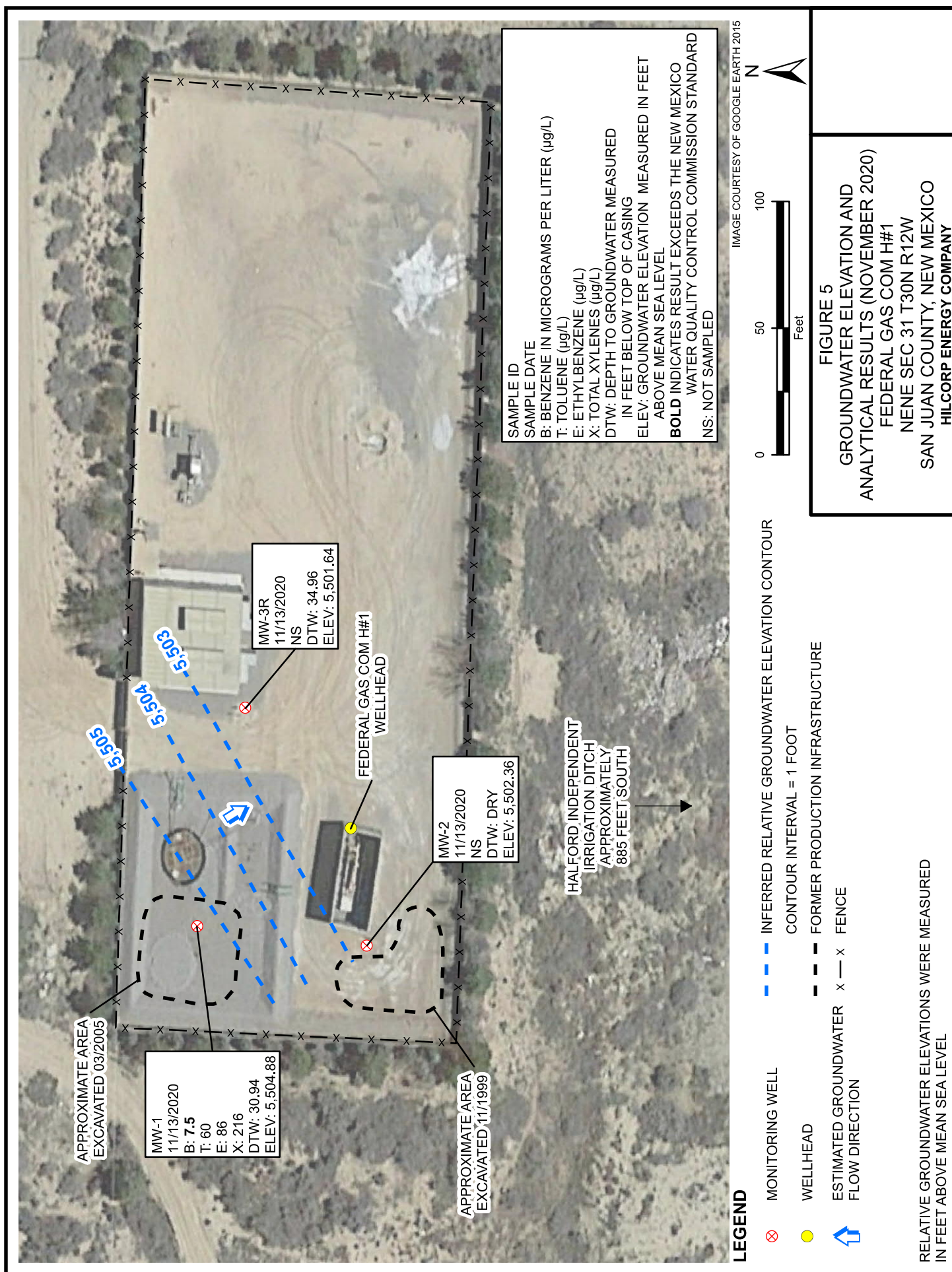


TABLE 1
GROUNDWATER ELEVATION SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	3/29/2007	31.34	5,504.48
MW-1	7/23/2007	31.55	5,504.27
MW-1	10/11/2007	31.09	5,504.73
MW-1	1/8/2008	31.26	5,504.56
MW-1	7/1/2008	31.40	5,504.42
MW-1	1/20/2009	31.29	5,504.53
MW-1	7/8/2009	31.58	5,504.24
MW-1	10/20/2009	31.31	5,504.51
MW-1	1/12/2010	31.29	5,504.53
MW-1	4/7/2010	31.03	5,504.79
MW-1	7/20/2010	31.11	5,504.71
MW-1	10/7/2010	30.51	5,505.31
MW-1	1/18/2011	30.56	5,505.26
MW-1	4/12/2011	30.83	5,504.99
MW-1	8/9/2011	30.92	5,504.90
MW-1	11/9/2011	30.46	5,505.36
MW-1	3/8/2012	30.64	5,505.18
MW-1	6/14/2012	31.00	5,504.82
MW-1	9/12/2012	31.11	5,504.71
MW-1	12/12/2012	31.05	5,504.77
MW-1	3/14/2013	29.94	5,505.88
MW-1	6/17/2013	30.98	5,504.84
MW-1	9/11/2013	31.05	5,504.77
MW-1	12/16/2013	30.14	5,505.68
MW-1	3/12/2014	30.33	5,505.49
MW-1	6/11/2014	30.36	5,505.46
MW-1	9/22/2014	30.46	5,505.36
MW-1	12/9/2014	30.17	5,505.65
MW-1	3/12/2015	30.25	5,505.57
MW-1	6/11/2015	29.95	5,505.87
MW-1	9/21/2015	29.57	5,506.25
MW-1	12/21/2015	29.75	5,506.07
MW-1	6/20/2016	30.30	5,505.52
MW-1	12/14/2016	30.29	5,505.53
MW-1	6/26/2017	29.98	5,505.84
MW-1	12/12/2017	30.19	5,505.63
MW-1	6/28/2018	30.55	5,505.27

TABLE 1
GROUNDWATER ELEVATION SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	12/10/2018	30.87	5,504.95
MW-1	3/18/2019	30.49	5,505.33
MW-1	6/19/2019	30.35	5,505.47
MW-1	7/10/2019	30.30	5,505.52
MW-1	9/26/2019	30.31	5,505.51
MW-1	12/9/2019	30.26	5,505.56
MW-1	3/13/2020	30.32	5,505.50
MW-1	6/22/2020	30.54	5,505.28
MW-1	8/31/2020	30.88	5,504.94
MW-1	11/13/2020	30.94	5,504.88
MW-2	3/29/2007	33.05	5,501.91
MW-2	7/23/2007	33.24	5,501.72
MW-2	10/11/2007	32.87	5,502.09
MW-2	1/8/2008	32.98	5,501.98
MW-2	7/1/2008	33.08	5,501.88
MW-2	1/20/2009	35.34	5,499.62
MW-2	7/8/2009	33.23	5,501.73
MW-2	10/20/2009	32.94	5,502.02
MW-2	1/12/2010	32.94	5,502.02
MW-2	4/7/2010	32.71	5,502.25
MW-2	7/20/2010	32.80	5,502.16
MW-2	10/7/2010	32.30	5,502.66
MW-2	1/18/2011	32.33	5,502.63
MW-2	4/12/2011	32.55	5,502.41
MW-2	8/9/2011	32.70	5,502.26
MW-2	11/9/2011	32.28	5,502.68
MW-2	3/8/2012	32.39	5,502.57
MW-2	6/14/2012	32.74	5,502.22
MW-2	9/12/2012	32.84	5,502.12
MW-2	12/12/2012	32.78	5,502.18
MW-2	3/14/2013	32.67	5,502.29
MW-2	6/17/2013	32.68	5,502.28
MW-2	9/11/2013	32.76	5,502.20
MW-2	12/16/2013	31.90	5,503.06
MW-2	3/12/2014	32.05	5,502.91
MW-2	6/11/2014	32.15	5,502.81

TABLE 1
GROUNDWATER ELEVATION SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-2	9/22/2014	32.28	5,502.68
MW-2	12/9/2014	32.03	5,502.93
MW-2	3/12/2015	31.96	5,503.00
MW-2	6/11/2015	31.82	5,503.14
MW-2	9/21/2015	31.47	5,503.49
MW-2	12/21/2015	31.61	5,503.35
MW-2	6/20/2016	32.11	5,502.85
MW-2	12/14/2016	32.14	5,502.82
MW-2	6/26/2017	31.90	5,503.06
MW-2	12/12/2017	32.03	5,502.93
MW-2	6/28/2018	32.35	5,502.61
MW-2	12/10/2018	32.62	5,502.34
MW-2	3/18/2019	32.31	5,502.65
MW-2	6/19/2019	32.22	5,502.74
MW-2	7/10/2019	32.12	5,502.84
MW-2	9/26/2019	32.12	5,502.84
MW-2	12/9/2019	32.04	5,502.92
MW-2	3/13/2020	32.09	5,502.87
MW-2	6/22/2020	32.32	5,502.64
MW-2	8/31/2020	32.60	5,502.36
MW-2	11/13/2020	Dry	
MW-3	12/6/2006	34.76	5,504.79
MW-3	3/29/2007	34.85	5,504.70
MW-3	7/23/2007	35.00	5,504.55
MW-3	10/11/2007	34.55	5,505.00
MW-3	1/8/2008	31.74	5,507.81
MW-3	7/1/2008	34.86	5,504.69
MW-3	1/20/2009	34.75	5,504.80
MW-3	7/8/2009	35.01	5,504.54
MW-3	10/20/2009	34.68	5,504.87
MW-3	1/12/2010	34.71	5,504.84
MW-3	4/7/2010	34.53	5,505.02
MW-3R	1/18/2011	34.69	5,501.91
MW-3R	4/12/2011	34.91	5,501.69
MW-3R	8/9/2011	35.01	5,501.59
MW-3R	11/9/2011	34.59	5,502.01

TABLE 1
GROUNDWATER ELEVATION SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-3R	3/8/2012	34.72	5,501.88
MW-3R	6/14/2012	35.04	5,501.56
MW-3R	9/12/2012	35.13	5,501.47
MW-3R	12/12/2012	35.07	5,501.53
MW-3R	3/14/2013	34.97	5,501.63
MW-3R	6/17/2013	34.98	5,501.62
MW-3R	9/11/2013	35.05	5,501.55
MW-3R	12/16/2013	34.28	5,502.32
MW-3R	3/12/2014	34.43	5,502.17
MW-3R	6/11/2014	34.57	5,502.03
MW-3R	9/22/2014	34.60	5,502.00
MW-3R	12/9/2014	34.35	5,502.25
MW-3R	3/12/2015	34.31	5,502.29
MW-3R	6/11/2015	34.19	5,502.41
MW-3R	9/21/2015	33.83	5,502.77
MW-3R	12/21/2015	33.95	5,502.65
MW-3R	6/20/2016	34.55	5,502.05
MW-3R	12/14/2016	34.45	5,502.15
MW-3R	6/26/2017	34.17	5,502.43
MW-3R	12/12/2017	34.31	5,502.29
MW-3R	6/28/2018	34.65	5,501.95
MW-3R	12/10/2018	34.92	5,501.68
MW-3R	3/18/2019	34.71	5,501.89
MW-3R	6/19/2019	34.52	5,502.08
MW-3R	7/10/2019	34.49	5,502.11
MW-3R	9/26/2019	34.36	5,502.24
MW-3R	12/9/2019	34.31	5,502.29
MW-3R	3/13/2020	34.35	5,502.25
MW-3R	6/22/2020	34.58	5,502.02
MW-3R	8/31/2020	34.89	5,501.71
MW-3R	11/13/2020	34.96	5,501.64

Notes:

AMSL - above mean sea level

BTOC - below top of casing

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-1	3/29/2007	39	ND	560	2,300
MW-1	7/23/2007	32	ND	610	2,300
MW-1	10/11/2007	50	18	440	1,500
MW-1	1/8/2008	47	7.1	730	3,000
MW-1	7/1/2008	18	9.6	350	980
MW-1	1/20/2009	30	22	370	910
MW-1	7/8/2009	16	ND	280	530
MW-1	10/20/2009	33	9.7	310	630
MW-1	1/12/2010	31	<1.0	270	500
MW-1	4/7/2010	33	16	290	630
MW-1	7/20/2010	27	10	360	710
MW-1	10/7/2010	26	<50	320	600
MW-1	1/18/2011	33	50	300	600
MW-1	4/12/2011	27	<100	320	700
MW-1	8/9/2011	20.8	21	257	444
MW-1	11/9/2011	17	<250	240	390
MW-1	3/8/2012	22	<50	200	260
MW-1	6/14/2012	14	<50	170	170
MW-1	9/12/2012	11	<5	110	73
MW-1	12/12/2012	23	<25	170	270
MW-1	3/14/2013	16	14	130	220
MW-1	6/17/2013	20	16	99	160
MW-1	9/11/2013	23	<50	120	230
MW-1	12/16/2013	28	61	160	310
MW-1	3/12/2014	26	85	140	320
MW-1	6/11/2014	35	150	160	390
MW-1	9/22/2014	34	<100	230	530

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-1	12/9/2014	22	82	96	230
MW-1	3/12/2015	8.0	26	72	140
MW-1	6/11/2015	44	220	320	980
MW-1	9/21/2015	65.9	391	212	599
MW-1	12/21/2015	105	105	205	634
MW-1	6/20/2016	37.6	182	239	626
MW-1	12/14/2016	19.0	118	118	323
MW-1	6/26/2017	13.7	85.2	87.3	250
MW-1	12/12/2017	10.5	20.6	31.2	65.5
MW-1	6/28/2018	14	160	94	290
MW-1	12/10/2018	3.8	17	23	53
MW-1	3/18/2019	7.1	72	68	150
MW-1	7/10/2019	8.6	92	58	150
MW-1	9/26/2019	13	73	67	170
MW-1	12/9/2019	10	60	69	140
MW-1	3/13/2020	14	190	71	270
MW-1	6/22/2020	8.4	61	50	130
MW-1	8/31/2020	15.3	141	94	333
MW-1	11/13/2020	7.5	60	86	216
MW-2	3/29/2007	55	ND	39	60
MW-2	7/23/2007	39	ND	25	9.2
MW-2	10/11/2007	86	ND	97	140
MW-2	1/8/2008	65	ND	82	56
MW-2	7/1/2008	15	ND	22	7.3
MW-2	1/20/2009	38	ND	85	49
MW-2	7/8/2009	7.5	ND	13	3
MW-2	10/20/2009	20	<1.0	31	29
MW-2	1/12/2010	22	<1.0	54	41

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY

FEDERAL GAS COM H #1
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Groundwater Standard		5	1,000	700	620
MW-2	4/7/2010	37	1.3	110	130
MW-2	7/20/2010	17	<1.0	94	92
MW-2	10/7/2010	34	<5	120	140
MW-2	1/18/2011	30	<50	160	170
MW-2	4/12/2011	25	<25	62	100
MW-2	8/9/2011	4	<1	9.8	33.2
MW-2	11/9/2011	26	<5	160	160
MW-2	3/8/2012	9.3	<10	79	90
MW-2	6/14/2012	2.6	<5	29	44
MW-2	9/12/2012	0.91	<5	8.8	5.2
MW-2	12/12/2012	0.71	<5	3.5	3.9
MW-3	12/6/2006	ND	ND	ND	ND
MW-3	3/29/2007	ND	ND	ND	ND
MW-3	7/23/2007	ND	ND	ND	ND
MW-3	10/11/2007	ND	ND	ND	ND
MW-3*	1/8/2008	ND	ND	ND	ND

Notes:

µg/L - micrograms per liter

ND - Not detected above the laboratory detection limit

NMWQCC - New Mexico Water Quality Control Commission

BOLD values exceed the NMWQCC Standard

< - indicates result is less than the stated laboratory method detection limit

* MW-3 was abandoned on May 10, 2010



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

March 27, 2020

Jennifer Deal

HILCORP ENERGY

PO Box 4700

Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Federal GC H 1

OrderNo.: 2003676

Dear Jennifer Deal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/14/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2003676

Date Reported: 3/27/2020

CLIENT: HILCORP ENERGY

Client Sample ID: MW-1

Project: Federal GC H 1

Collection Date: 3/13/2020 1:30:00 PM

Lab ID: 2003676-001

Matrix: AQUEOUS

Received Date: 3/14/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JMR
Benzene	14	1.0		µg/L	1	3/23/2020 6:12:27 PM
Toluene	190	10		µg/L	10	3/24/2020 1:48:39 PM
Ethylbenzene	71	1.0		µg/L	1	3/23/2020 6:12:27 PM
Xylenes, Total	270	1.5		µg/L	1	3/23/2020 6:12:27 PM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	3/23/2020 6:12:27 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	3/23/2020 6:12:27 PM
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	3/23/2020 6:12:27 PM
Surr: Toluene-d8	98.7	70-130		%Rec	1	3/23/2020 6:12:27 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2003676

27-Mar-20

Client: HILCORP ENERGY**Project:** Federal GC H 1

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R67514	RunNo: 67514								
Prep Date:	Analysis Date: 3/23/2020	SeqNo: 2330424	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.8	70	130			
Ethylbenzene	21	1.0	20.00	0	105	70	130			
Xylenes, Total	63	1.5	60.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.1	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Sample ID: 2003676-001ams	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-1	Batch ID: R67514	RunNo: 67514								
Prep Date:	Analysis Date: 3/23/2020	SeqNo: 2330427	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	31	1.0	20.00	14.04	86.6	70	130			
Ethylbenzene	92	1.0	20.00	70.92	105	70	130			
Xylenes, Total	330	1.5	60.00	266.5	102	70	130			E
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.8	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: 2003676-001amsd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-1	Batch ID: R67514	RunNo: 67514								
Prep Date:	Analysis Date: 3/23/2020	SeqNo: 2330428	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	31	1.0	20.00	14.04	83.8	70	130	1.77	20	
Ethylbenzene	86	1.0	20.00	70.92	76.8	70	130	6.29	0	
Xylenes, Total	310	1.5	60.00	266.5	64.4	70	130	7.18	0	ES
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130	0	0	
Surr: Dibromofluoromethane	9.6		10.00		96.1	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		96.9	70	130	0	0	

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R67514	RunNo: 67514								
Prep Date:	Analysis Date: 3/23/2020	SeqNo: 2330442	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								

Qualifiers:

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

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

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

WO#: 2003676

27-Mar-20

Client: HILCORP ENERGY**Project:** Federal GC H 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R67514	RunNo: 67514								
Prep Date:	Analysis Date: 3/23/2020	SeqNo: 2330442	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.2	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R67530	RunNo: 67530								
Prep Date:	Analysis Date: 3/24/2020	SeqNo: 2331948	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.6	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R67530	RunNo: 67530								
Prep Date:	Analysis Date: 3/24/2020	SeqNo: 2331959	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	7.8		10.00		78.2	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: HILCORP ENERGY FAR

Work Order Number: 2003676

RcptNo: 1

Received By: Erin Melendrez

3/14/2020 8:15:00 AM

UAG

Completed By: Erin Melendrez

3/14/2020 10:52:37 AM

UAG

Reviewed By:

*YL 3/16/20*Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: *DAD 3/16/20*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good				
2	0.5	Good				

Chain-of-Custody Record

Client: Hicorp EnergyMailing Address: Jennifer NealPhone #: 505 324 5128email or Fax#: 505-610-hicorp.com

QA/QC Package:

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

Date	Time	Matrix	Sample Name
3/13	1330	H2O	MW-1

Sampler: Tfarr's ShurtOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CP): 3.6 to 1.6 = 3.7°CContainer Type and # 3 (VOAS)Preservative Type HCLHEAL No. 20036076Type -001

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Federal GC H #1

Project #:

017820064

Project Manager:

Josh Adams
**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTX / MTBE / TMB's (8024)								

X

Remarks:

Received by:	Via:	Date	Time
<u>Monte Waeber</u>	<u>3/13/2014</u>	<u>1430</u>	
Received by:	Via:	Date	Time
<u>Wife</u>	<u>Carrier</u>	<u>3/14/20</u>	<u>0815</u>

Please CC' Jadams@ctenv.com
TShort@ctenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

July 01, 2020

Jennifer Deal
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: Federal 6C H #1

OrderNo.: 2006B23

Dear Jennifer Deal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/23/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2006B23

Date Reported: 7/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: MW 1

Project: Federal 6C H #1

Collection Date: 6/22/2020 12:40:00 PM

Lab ID: 2006B23-001

Matrix: AQUEOUS

Received Date: 6/23/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	8.4	2.0		µg/L	2	6/26/2020 5:14:43 PM	SL69947
Toluene	61	2.0		µg/L	2	6/26/2020 5:14:43 PM	SL69947
Ethylbenzene	50	2.0		µg/L	2	6/26/2020 5:14:43 PM	SL69947
Xylenes, Total	130	3.0		µg/L	2	6/26/2020 5:14:43 PM	SL69947
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	2	6/26/2020 5:14:43 PM	SL69947
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	2	6/26/2020 5:14:43 PM	SL69947
Surr: Dibromofluoromethane	98.7	70-130		%Rec	2	6/26/2020 5:14:43 PM	SL69947
Surr: Toluene-d8	107	70-130		%Rec	2	6/26/2020 5:14:43 PM	SL69947

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

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

Page 1 of 2

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2006B23****08-Jul-20****Client:** HILCORP ENERGY**Project:** Federal 6C H #1

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: SL69947	RunNo: 69947								
Prep Date:	Analysis Date: 6/26/2020	SeqNo: 2429275 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

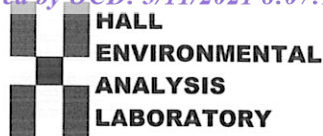
Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: SL69947	RunNo: 69947								
Prep Date:	Analysis Date: 6/26/2020	SeqNo: 2429276 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

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

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

Page 2 of 2



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

Sample Log-In Check List

Client Name: **Hilcorp Energy**Work Order Number: **2006B23**

RcptNo: 1

Received By: **Emily Mocho**

6/22/2020 8:05:00 AM

Completed By: **Emily Mocho**

6/23/2020 8:21:06 AM

Reviewed By: **DAD 6/23/20**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: SPA 6.23.20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

September 10, 2020

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

HilCorp-Farmington, NM

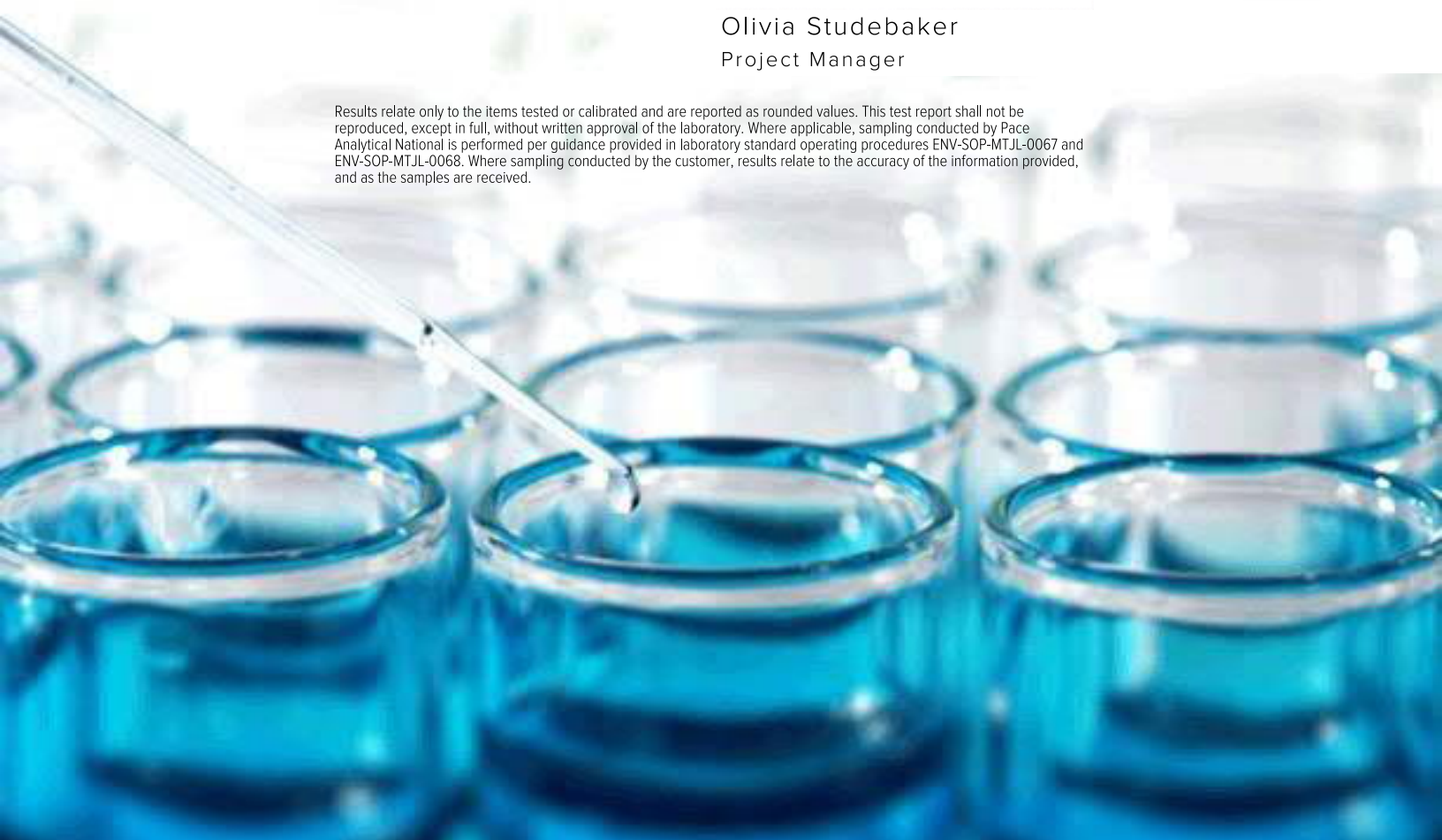
Sample Delivery Group: L1256952
Samples Received: 09/01/2020
Project Number:
Description: Federal GC H 1
Site: FEDERAL GC H 1
Report To: Kurt Hoekstra
382 Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Olivia Studebaker
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
MW-1 L1256952-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	6	⁵ Sr
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	⁶ Qc
Sc: Sample Chain of Custody	10	⁷ Gl
		⁸ Al
		⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-1 L1256952-01 GW

Collected by
Kurt

Collected date/time
08/31/20 12:50

Received date/time
09/01/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1537537	1	09/03/20 12:58	09/03/20 12:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1537626	5	09/03/20 20:03	09/03/20 20:03	BMB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Olivia Studebaker
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0153		0.00100	1	09/03/2020 12:58	WG1537537
Toluene	0.141		0.00500	5	09/03/2020 20:03	WG1537626
Ethylbenzene	0.0935		0.00100	1	09/03/2020 12:58	WG1537537
Total Xylenes	0.333		0.00300	1	09/03/2020 12:58	WG1537537
(S) Toluene-d8	110		80.0-120		09/03/2020 12:58	WG1537537
(S) Toluene-d8	96.8		80.0-120		09/03/2020 20:03	WG1537626
(S) 4-Bromofluorobenzene	105		77.0-126		09/03/2020 12:58	WG1537537
(S) 4-Bromofluorobenzene	96.0		77.0-126		09/03/2020 20:03	WG1537626
(S) 1,2-Dichloroethane-d4	101		70.0-130		09/03/2020 12:58	WG1537537
(S) 1,2-Dichloroethane-d4	106		70.0-130		09/03/2020 20:03	WG1537626

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3566951-2 09/03/20 10:51

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	97.8			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3566951-1 09/03/20 09:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	0.00500	0.00496	99.2	70.0-123	
Ethylbenzene	0.00500	0.00486	97.2	79.0-123	
Xylenes, Total	0.0150	0.0147	98.0	79.0-123	
(S) Toluene-d8			96.3	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			106	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3567199-3 09/03/20 13:30

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Toluene	U		0.000278	0.00100
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	95.7			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3567199-1 09/03/20 12:20 • (LCSD) R3567199-2 09/03/20 12:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Toluene	0.00500	0.00445	0.00442	89.0	88.4	79.0-120			0.676	20
(S) Toluene-d8				104	108	80.0-120				
(S) 4-Bromofluorobenzene				93.5	89.8	77.0-126				
(S) 1,2-Dichloroethane-d4				107	106	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

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* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

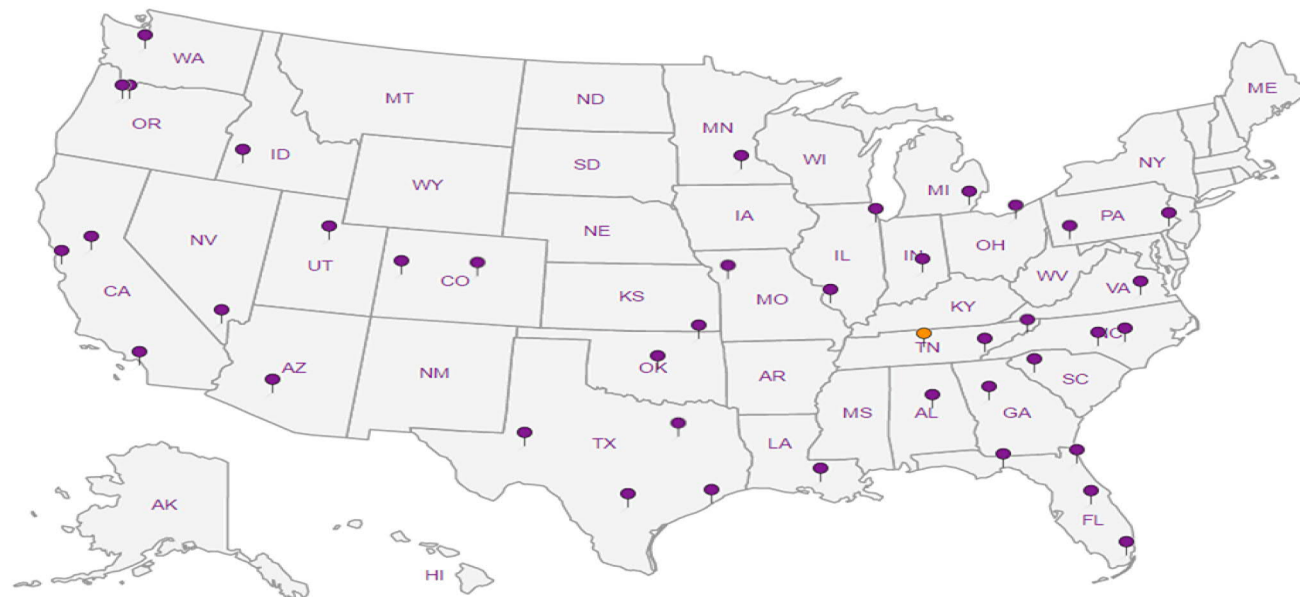
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



HilCorp-Farmington, NM 382 Road 3100 Aztec, NM 87410		Billing Information: Clara Cardoza PO Box 61529 Houston, TX 77208 Email To: @hilcorp.com; khoekstra@hilcorp.com		Chain of Custody Page ____ of ____	
Report to: Kurt Hoekstra Project Description: Federal GC H 1		City/State Collected: Please Circle: PT MT CT ET		Analysis / Container / Preservative	
Phone: 505-486-9543		Client Project # HILCORANM-FEDERALGC H		SDG # <u>U1256952</u> F156	
Collected by (print): <i>Kurt Hoekstra</i>		Site/Facility ID # FEDERAL GC H 1		Actnum: HILCORANM Template: T170509 Prelogin: P784562 PM: 823 - Olivia Studebaker PB:	
Collected by (signature): <i>Kurt Hoekstra</i>		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #	
Immediately Packed on Ice N ___ Y <u>X</u>		Date Results Needed		No. of Cntrs	
Sample ID MW-1		Comp/Grab Matrix * GW		Date 8-31 12:50	
Depth 3		Date 8-31 12:50		V8260BTEX 40ml/amb-HCl X	
Remarks: * Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Tracking # <u>79999996278</u>		pH ____ Temp ____ Flow ____ Other ____	
Samples returned via: ___ UPS ___ FedEx ___ Courier		Received by: (Signature) Date: 8-31-20 1:45		Trip Blank Received: Yes / No HCL / MeOH TBR	
Relinquished by: (Signature) <i>Kurt Hoekstra</i>		Received by: (Signature) Date: 8-31-20 1:45		Temp <u>18.7</u> °C Date: 09/01/20 09:08	
Relinquished by: (Signature) Date:		Received by: (Signature) Date:		VOA Zero Headspace: <u>Y</u> Preservation Correct/Checked: <u>Y</u> RAD Screen <0.5 mR/hr: <u>Y</u>	
Relinquished by: (Signature) Date:		Received by: (Signature) Date:		If Applicable Sufficient volume sent: <u>Y</u> Correct bottles used: <u>Y</u> Bottles arrive intact: <u>Y</u> COC Signed/Accurate: <u>Y</u> COC Seal Present/Intact: <u>Y</u> Sample Receipt Checklist	
Condition: NCF <u>OK</u>		Hold:		If preservation required by Login: Date/Time	

HilCorp-Farmington, NM

Sample Delivery Group: L1286827

Samples Received: 11/17/2020

Project Number:

Description: Federal GC H 1

Site: FEDERAL GC H 1

Report To: Kurt Hoekstra

382 Road 3100

Aztec, NM 87410

Entire Report Reviewed By:



Olivia Studebaker

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
MW-1 L1286827-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	6	⁵ Sr
Gl: Glossary of Terms	7	
Al: Accreditations & Locations	8	⁶ Qc
Sc: Sample Chain of Custody	9	⁷ Gl
		⁸ Al
		⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-1 L1286827-01 GW

Collected by
Kurt

Collected date/time
11/13/20 11:18

Received date/time
11/17/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580638	1	11/22/20 10:46	11/22/20 10:46	BMB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Olivia Studebaker
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00746		0.00100	1	11/22/2020 10:46	WG1580638
Toluene	0.0601		0.00100	1	11/22/2020 10:46	WG1580638
Ethylbenzene	0.0859		0.00100	1	11/22/2020 10:46	WG1580638
Total Xylenes	0.216		0.00300	1	11/22/2020 10:46	WG1580638
(S) Toluene-d8	95.1		80.0-120		11/22/2020 10:46	WG1580638
(S) 4-Bromofluorobenzene	97.0		77.0-126		11/22/2020 10:46	WG1580638
(S) 1,2-Dichloroethane-d4	113		70.0-130		11/22/2020 10:46	WG1580638

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3596560-2 11/22/20 05:42

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	100			80.0-120
(S) 4-Bromofluorobenzene	96.9			77.0-126
(S) 1,2-Dichloroethane-d4	127			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3596560-1 11/22/20 05:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	0.00500	0.00567	113	70.0-123	
Ethylbenzene	0.00500	0.00508	102	79.0-123	
Toluene	0.00500	0.00533	107	79.0-120	
Xylenes, Total	0.0150	0.0148	98.7	79.0-123	
(S) Toluene-d8			98.6	80.0-120	
(S) 4-Bromofluorobenzene			98.9	77.0-126	
(S) 1,2-Dichloroethane-d4			126	70.0-130	



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1 Cp

2 Tc

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Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

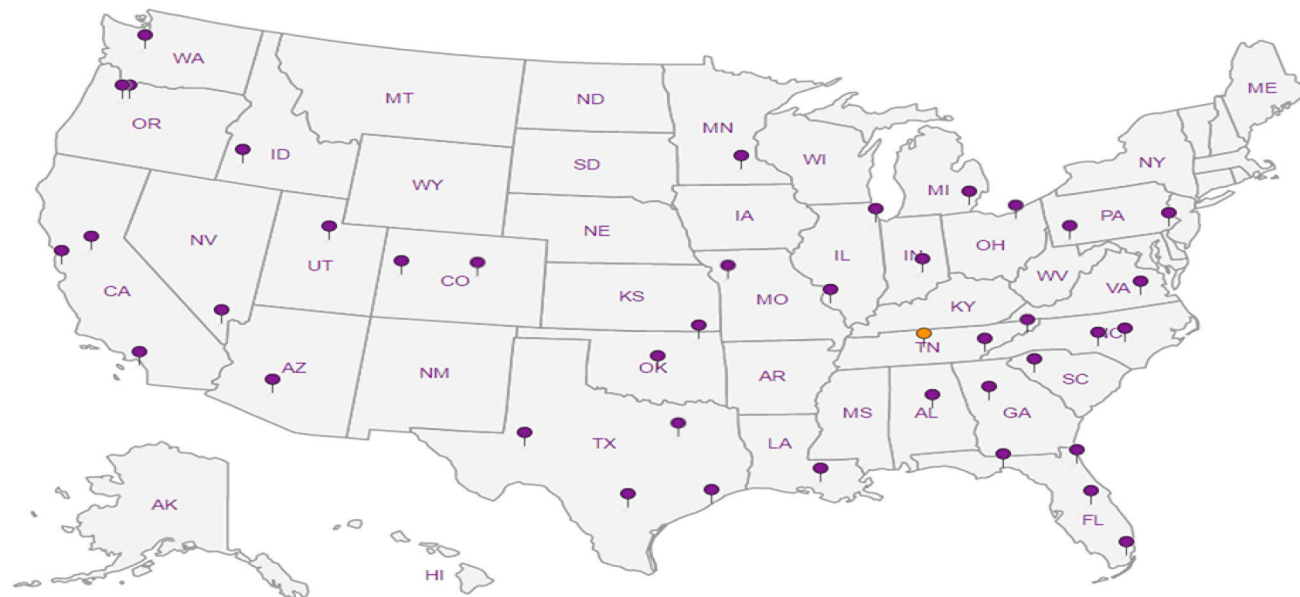
Third Party Federal Accreditations

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A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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HiCorp-Farmington, NM 382 Road 3100 Aztec, NM 87410		Billing Information: Monika 800-758-5858 MONIKA R 874208 JENNIER DEAL		Chain of Custody Page ____ of ____	
Report to: Kurt Hoekstra Project Description: Federal GCH 1		Email To: jdeal@hilcorp.com; khoekstra@hilcorp.com		Pace Analytical National Center for Testing & Innovation 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Phone: 505-486-9543		City/State Collected: Please Circle: PT MT CT ET		SDG # L1286827 I100	
Client Project # Site/Facility ID # FEDERAL GCH 1		Lab Project # HILCORANM-FEDERALGCH		Acctnum: HILCORANM Template: T170509 Prelogin: P800123 PM: 823 - Olivia Studebaker P8	
Collected by (print): <i>Kurt Hoekstra</i> Collected by (signature): <i>Kurt Hoekstra</i> Immediately Packed on Ice N <u> </u> Y <u>X</u>		Rush? (Lab MUST Be Notified) Same Day <u> </u> Five Day <u> </u> Next Day <u> </u> 5 Day (Rad Only) Two Day <u> </u> 10 Day (Rad Only) Three Day <u> </u>		Quote # Date Results Needed No. of Cntrs	
Sample ID MW-1		Comp/Grab Matrix* Depth Date Time GW 11-13 11:18 3		Remarks Sample # (lab only) -01	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		Samples returned via: UPS FedEx Courier Date: 11-16-20 Time: 6:40 Relinquished by: (Signature) <i>Kurt Hoekstra</i> Relinquished by: (Signature) <i>Kurt Hoekstra</i> Relinquished by: (Signature)		pH Temp Flow Other Trip Blank Received: Yes <u> </u> HCL / MeOH TBR Temp: °C Bottles Received: 3 Date: 11-20-20 Time: 11/20 0900	
Tracking # 9296524311000		Received by: (Signature) Received by: (Signature) Received for lab by: (Signature) <i>gust</i>		Sample Receipt Checklist COC Seal Present/Intact: <u> </u> Y <u> </u> N COC Signed/Accurate: <u> </u> Y <u> </u> N Bottles arrive intact: <u> </u> Y <u> </u> N Correct bottles used: <u> </u> Y <u> </u> N Sufficient volume sent: <u> </u> Y <u> </u> N If Applicable VOA Zero Headspace: <u> </u> Y <u> </u> N Preservation Correct/Checked: <u> </u> Y <u> </u> N RAD Screen <0.5 mR/hr: <u> </u> Y <u> </u> N	
If preservation required by Login: Date/Time		Hold:		Condition: NCF / OK	

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

Action 20492

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
	372171
	Action Number: 20492
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual Groundwater Report: Content satisfactory 1. Continue quarterly sampling from monitoring well MW-1 to examine BTEX concentrations in groundwater 2. Continue quarterly measurements for depth to groundwater in monitoring wells MW-1, MW-2, and MW-3R in 2021 3. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021