

January 9, 2020

Ramona Marcus  
Oil Conservation Division, District 1

Remediation Plan Denied -  
02/27/2020, Cristina Eads

emnrd-ocd-district1spills@state.nm.us  
Re: Release Characterization Work Plan  
ConocoPhillips  
**Phillips State Unit 29**  
Unit P, Section 14, Township 17 South, Range 33 East  
Lea County, New Mexico  
1RP-5778

Dear Mrs. Marcus:

ConocoPhillips conducted the **Phillips State Unit 29** (Unit P, Section 14, Township 17 South, Range 33 East), in Eddy County, New Mexico (Site). The release site coordinates are 32.82910, -103.62790

#### History

As reported to the State of New Mexico via C-141 Initial Report, the release occurred on October 4, 2019, due to flowline rupture, about 5 barrels of produced water and 1 barrel of oil were released off pad, and nothing was recovered.

#### Site Characterization

Even that the spill occurred on pad and did not create additional disturbance, a site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, floodplains nor high Karst area are located within the specified distances. Karst potential is considered low. According to the New Mexico Office of the State Engineer (NMOSE) the groundwater is at 147 feet below ground surface. Assessments are attached.

#### Initial Site Assessment

ConocoPhillips delineated and sampled the release area on December 19, 2019. Seven sample points were completed at surface, 1' and 3' from surface to evaluate the vertical contamination caused by the release. All samples were analyzed for TPH, BTEX and chlorides analysis. Copies are attached.

### **Sampling Results**

The results of samples taken are summarized below on the map attached. Samples were taken at ground level, 1' deep and 3' deep, with the highest contamination in the middle section, highlighted in orange, while the light blue area only has evidence of contamination above the threshold at surface level

### **Corrective Action Plan**

Based on the obtained results, ConocoPhillips requests your approval to remove contaminated soil as proposed below.

Light blue area: We propose to remove contaminated soil down to 1.' below ground level.

Orange area: We proposed to remove contaminated soil down to 4' below ground level.

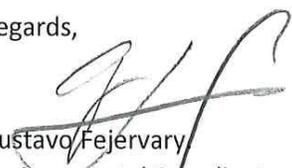
Bottom and sidewall sampling will be conducted and submitted to NMOCD for verification of remedial activities, and analyzed for TPH, BTEX and chlorides.

Between 2,000~ 3,000 cubic feet of contaminated soil will be removed, and replaced with clean soil and reseeded.

### **Conclusion**

ConocoPhillips proposes to complete remediation within 90 days of this submittal. Once completed, we will submit closure report, accordingly.

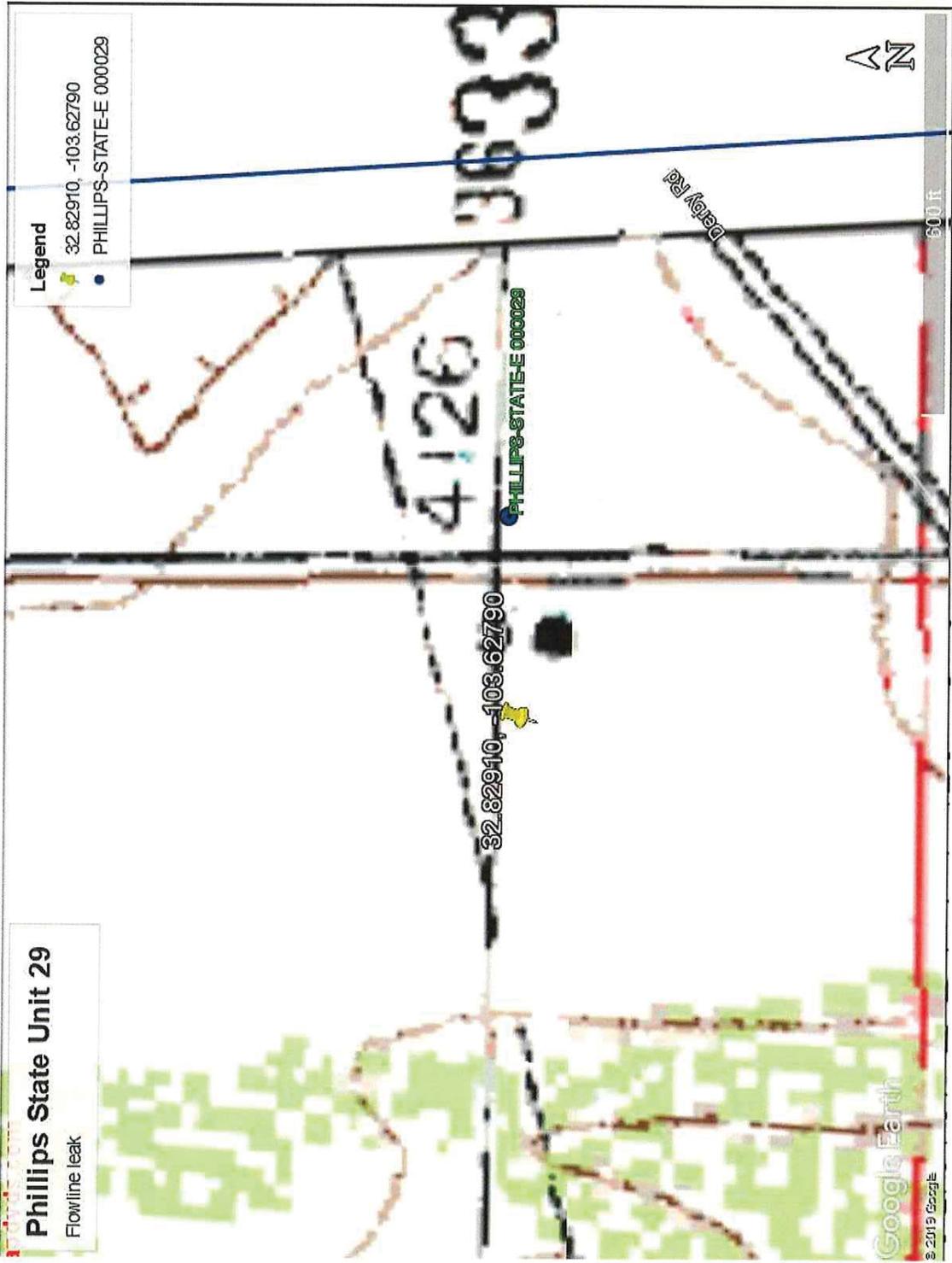
Regards,

  
Gustavo Fejervary  
Environmental Coordinator  
432-210-7037

Overview Maps.



Topographic Map



Groundwater assessment



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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 01883		4	4	4	13	17S	33E	630189	3633119*

Driller License:	281	Driller Company:	PRUETT, OTIS H.
Driller Name:	OTIS H. PRUETT		
Drill Start Date:	08/21/1960	Drill Finish Date:	08/21/1960
Log File Date:	08/24/1960	PCW Rev Date:	07/29/1960
Pump Type:	TURBIN	Pipe Discharge Size:	
Casing Size:	16.00	Depth Well:	260 feet
		Depth Water:	147 feet

Water Bearing Stratifications:	Top	Bottom	Description
	120	135	Sandstone/Gravel/Conglomerate
	219	239	Sandstone/Gravel/Conglomerate

Meter Number:	8861	Meter Make:	BADGER
Meter Serial Number:	24794	Meter Multiplier:	100.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
03/27/2005	2005	253285	A	jw	0
07/11/2005	2005	339168	A	jw	26.357
10/10/2005	2005	399677	A	jw	18.570
12/27/2005	2005	415004	A	RPT	4.704
03/27/2006	2006	423126	A	RPT	2.493
12/31/2015	2015	66213668	A	RPT	0
01/31/2016	2016	66213668	A	RPT	0
03/07/2016	2016	66213668	A	RPT	0
03/31/2016	2016	66424423	A	RPT	64.678
04/30/2016	2016	66424423	A	RPT	0
05/30/2016	2016	66424423	A	RPT	0
06/30/2016	2016	66424423	A	RPT	0
07/31/2016	2016	69151858	A	RPT	837.019
08/31/2016	2016	76496105	A	RPT	2253.867
09/30/2016	2016	76540486	A	RPT	13.620
10/31/2016	2016	81859372	A	RPT	1632.306
11/30/2016	2016	87277619	A	RPT	1662.799

**YTD Meter Amounts:	Year	Amount
	2005	49.631
	2006	2.493
	2015	0
	2016	6464.289

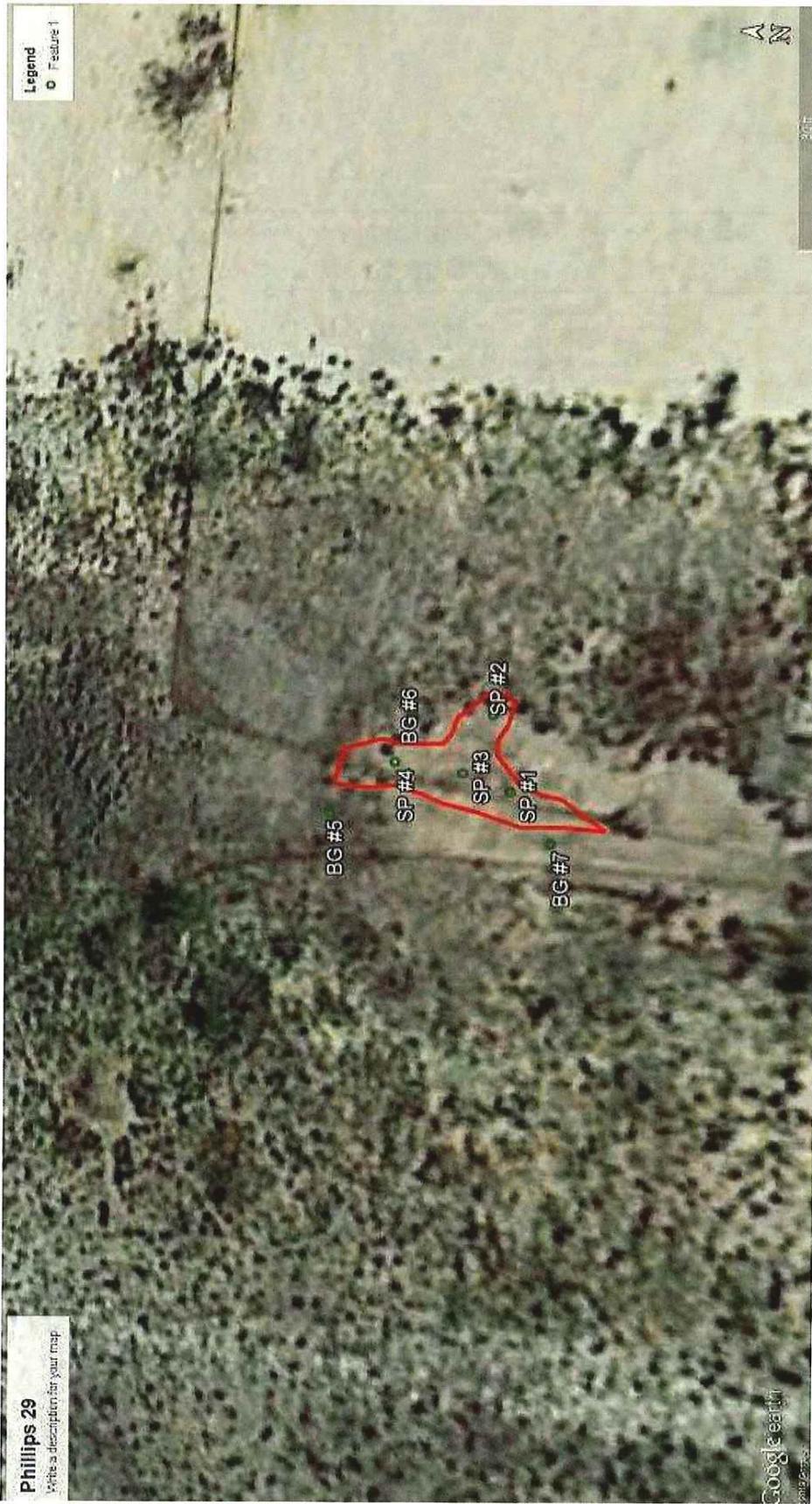
\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOS/ISC and is accepted by the recipient with the expressed understanding that the OS/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

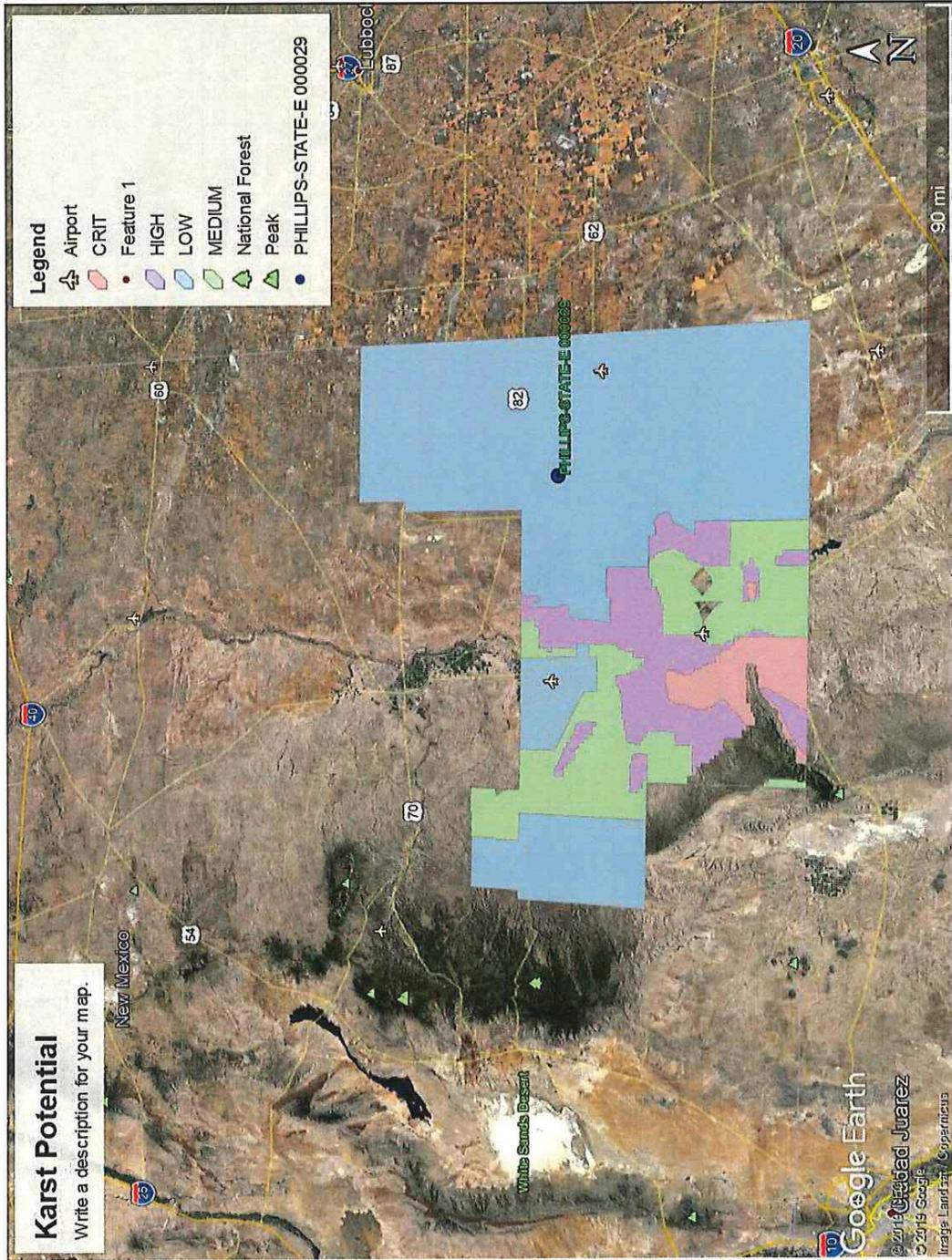
1/7/20 12:50 PM

POINT OF DIVERSION SUMMARY

Spill Area and Sample Points. Spill off Pad



Karst Assessment (Low Potential)



**Corrective Action Plan.**

**Samples Summary and recommended excavation**

Karst Potential: Low		Recommended Remedial Action		Chloride		BTEX						TPH					
SAMPLE ID	SAMPLE DATE	SAMPLE INTERVAL	mg/kg	Q	Benzene	Toluene	Ethylbenzene	Xylene	Total BTEX	GRO	DRO	ORO	Total TPH				
SP #1	12/19/2019	Surface	416	1100 QM07	4.65	63.6	56	156	281	4920	25700	5390	36010				
SP #1	12/19/2019	1'	1100	QM07	<0.050	0.167	0.386	1.13	1.68	52.3	1120	430	1602.3				
SP #1	12/19/2019	3'	576		<0.050	<0.050	<0.050	<0.150	<0.300	<10	626	260	886				
SP #2	12/19/2019	Surface	320		<0.200	0.721	1.87	14.4	17	491	19500	43600	69591				
SP #2	12/19/2019	1'	320		<0.050	0.339	<0.050	10.1	10.5	687	6890	1700	9277				
SP #2	12/19/2019	3'	176		<0.050	<0.050	7.43 QM07	14.8 QM07	22.2	490	5900	1520	7910				
SP #3	12/19/2019	Surface	80		<0.050	<0.050	0.433	1.36	1.79	239	27500	5780	33519				
SP #3	12/19/2019	1'	64		<0.050	<0.050	<0.050	<0.150	<0.300	<50	11500	2700	14200				
SP #3	12/19/2019	3'	64		<0.050	<0.050	<0.050	<0.150	<0.300	<10	106	38	144				
SP #4	12/19/2019	Surface	32		<0.200	2.04	2.04	4.6	6.64	387	38400	7310	46097				
SP #4	12/19/2019	1'	32		<0.050	<0.050	<0.050	<0.150	<0.300	13.8	1120	405	1538.8				
SP #4	12/19/2019	3'	64		<0.050	<0.050	<0.050	<0.150	<0.300	<10	456	153	609				
BG #5	12/19/2019	Surface	16		<0.050	<0.050	<0.050	<0.150	<0.300	<10	12.2	15.9	28.1				
BG #5	12/19/2019	1'	112		<0.050	<0.050	<0.050	<0.150	<0.300	<10	270	87.5	357.5				
BG #6	12/19/2019	Surface	32		<0.050	<0.050	<0.050	<0.150	<0.300	<10	289	289	578				
BG #6	12/19/2019	1'	48		<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30				
BG #7	12/19/2019	Surface	80		<0.050	<0.050	0.126	0.426	0.552	80.3	3320	745	4145.3				
BG #7	12/19/2019	1'	<16		<0.050	<0.050	<0.050	<0.150	<0.300	<10	432	260	692				

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- RPD Relative Percent Difference
- ND Analyte NOT DETECTED at or above the reporting limit

Excavation and Backfilling proposal



Received by OCD: 10/16/2019 11:01:00 AM

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NRM1930943618
District RP	IRP-5778
Facility ID	fGRL0916228606
Application ID	pRM1930943884

## Release Notification

### Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejervary	Contact Telephone 432/210-7037
Contact email g.fejervary@cop.com	Incident # (assigned by OCD)
Contact mailing address 5735 SW 7000 Andrews, TX 79714	

### Location of Release Source

Latitude 32.82910 Longitude -103.62790  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Phillips State Unit 29 Flowline leak	Site Type flowline
Date Release Discovered 10/4/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	14	17S	33E	Lea

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Flowline rupture**

Form C-141  
Page 2

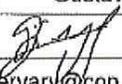
State of New Mexico  
Oil Conservation Division

Incident ID	NRM1930943618
District RP	IRP-5778
Facility ID	fGRL0916228606
Application ID	pRM1930943884

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  _____ _____
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Yes, email sent to Bradford Billings, District 1 spill reporting email address and Dylan Rose-Coss	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>Gustavo Fejervary</u> Title: <u>Environmental Coordinator</u> Signature:  Date: <u>10/16/19</u> email: <u>g.fejervary@cop.com</u> Telephone: <u>432/210-7037</u>
<p><b>OCD Only</b></p> Received by: <u>Ramona Marcus</u> Date: <u>11/05/2019</u>

Form C-141  
Page 3

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5778
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	147 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- Depth to water determination
- Determination of water sources and significant watercourses within 1/4-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

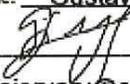
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

Form C-141  
Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Gustavo Fejervary Title: Environmental Coordinator  
 Signature:  Date: 1/9/20  
 email: g.fejervary@cop.com Telephone: 432/210-7037

**OCD Only**

Received by: Cristina Eads Date: 02/27/2020









PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 30, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: PHILLIPS E STATE #29

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 1 - SURFACE (H904261-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>4.65</b>	0.500	12/24/2019	ND	1.64	82.2	2.00	16.6		
<b>Toluene*</b>	<b>63.6</b>	0.500	12/24/2019	ND	1.65	82.4	2.00	17.3		
<b>Ethylbenzene*</b>	<b>56.0</b>	0.500	12/24/2019	ND	1.65	82.6	2.00	13.1		
<b>Total Xylenes*</b>	<b>156</b>	1.50	12/24/2019	ND	5.00	83.3	6.00	17.1		
<b>Total BTEX</b>	<b>281</b>	3.00	12/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 174 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>416</b>	16.0	12/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4920</b>	50.0	12/23/2019	ND	199	99.6	200	1.36		
<b>DRO &gt;C10-C28*</b>	<b>25700</b>	50.0	12/23/2019	ND	198	99.1	200	0.587		
<b>EXT DRO &gt;C28-C36</b>	<b>5390</b>	50.0	12/23/2019	ND						

Surrogate: 1-Chlorooctane 308 % 41-142

Surrogate: 1-Chlorooctadecane 633 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 1 - 1' (H904261-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<b>0.167</b>	0.050	12/24/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<b>0.386</b>	0.050	12/24/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<b>1.13</b>	0.150	12/24/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<b>1.68</b>	0.300	12/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1100</b>	16.0	12/23/2019	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>52.3</b>	10.0	12/23/2019	ND	199	99.6	200	1.36	
DRO >C10-C28*	<b>1120</b>	10.0	12/23/2019	ND	198	99.1	200	0.587	
EXT DRO >C28-C36	<b>430</b>	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 1 - 3' (H904261-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	12/24/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	12/24/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<0.150	0.150	12/24/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<0.300	0.300	12/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36	
<b>DRO &gt;C10-C28*</b>	<b>626</b>	10.0	12/23/2019	ND	198	99.1	200	0.587	
<b>EXT DRO &gt;C28-C36</b>	<b>260</b>	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 2 - SURFACE (H904261-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/24/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<b>0.721</b>	0.200	12/24/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<b>1.87</b>	0.200	12/24/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<b>14.4</b>	0.600	12/24/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<b>17.0</b>	1.20	12/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>320</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<b>491</b>	50.0	12/23/2019	ND	199	99.6	200	1.36		
DRO >C10-C28*	<b>19500</b>	50.0	12/23/2019	ND	198	99.1	200	0.587		
EXT DRO >C28-C36	<b>4360</b>	50.0	12/23/2019	ND						

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 561 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 2 - 1' (H904261-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2019	ND	1.64	82.2	2.00	16.6		
<b>Toluene*</b>	<b>0.339</b>	0.050	12/24/2019	ND	1.65	82.4	2.00	17.3		
Ethylbenzene*	<0.050	0.050	12/24/2019	ND	1.65	82.6	2.00	13.1		
<b>Total Xylenes*</b>	<b>10.1</b>	0.150	12/24/2019	ND	5.00	83.3	6.00	17.1		
<b>Total BTEX</b>	<b>10.5</b>	0.300	12/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 369 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>687</b>	50.0	12/24/2019	ND	199	99.6	200	1.36		
<b>DRO &gt;C10-C28*</b>	<b>6890</b>	50.0	12/24/2019	ND	198	99.1	200	0.587		
<b>EXT DRO &gt;C28-C36</b>	<b>1700</b>	50.0	12/24/2019	ND						

Surrogate: 1-Chlorooctane 145 % 41-142

Surrogate: 1-Chlorooctadecane 203 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 2 - 3' (H904261-06)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	12/26/2019	ND	2.12	106	2.00	3.21		
Toluene*	<0.500	0.500	12/26/2019	ND	2.13	107	2.00	2.84		
Ethylbenzene*	<b>7.43</b>	0.500	12/26/2019	ND	2.14	107	2.00	3.17	QM-07	
Total Xylenes*	<b>14.8</b>	1.50	12/26/2019	ND	6.38	106	6.00	4.07	QM-07	
Total BTEX	<b>22.2</b>	3.00	12/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 142 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>176</b>	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<b>490</b>	50.0	12/24/2019	ND	199	99.6	200	1.36		
DRO >C10-C28*	<b>5900</b>	50.0	12/24/2019	ND	198	99.1	200	0.587		
EXT DRO >C28-C36	<b>1520</b>	50.0	12/24/2019	ND						

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 211 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 3 - SURFACE (H904261-07)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/28/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<b>0.433</b>	0.050	12/28/2019	ND	2.14	107	2.00	3.17	
<b>Total Xylenes*</b>	<b>1.36</b>	0.150	12/28/2019	ND	6.38	106	6.00	4.07	
<b>Total BTEX</b>	<b>1.79</b>	0.300	12/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 186 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>239</b>	50.0	12/24/2019	ND	199	99.6	200	1.36	
<b>DRO &gt;C10-C28*</b>	<b>27500</b>	50.0	12/24/2019	ND	198	99.1	200	0.587	
<b>EXT DRO &gt;C28-C36</b>	<b>5780</b>	50.0	12/24/2019	ND					

Surrogate: 1-Chlorooctane 266 % 41-142

Surrogate: 1-Chlorooctadecane 759 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 3 - 1' (H904261-08)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/28/2019	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	12/28/2019	ND	2.13	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	12/28/2019	ND	2.14	107	2.00	3.17		
Total Xylenes*	<0.150	0.150	12/28/2019	ND	6.38	106	6.00	4.07		
Total BTEX	<0.300	0.300	12/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 124 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	12/24/2019	ND	199	99.6	200	1.36			
DRO >C10-C28*	11500	50.0	12/24/2019	ND	198	99.1	200	0.587			
EXT DRO >C28-C36	2700	50.0	12/24/2019	ND							

Surrogate: 1-Chlorooctane 133 % 41-142

Surrogate: 1-Chlorooctadecane 382 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 3 - 3' (H904261-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<0.300	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36	
<b>DRO &gt;C10-C28*</b>	<b>106</b>	10.0	12/23/2019	ND	198	99.1	200	0.587	
<b>EXT DRO &gt;C28-C36</b>	<b>38.0</b>	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 4 - SURFACE (H904261-10)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.200	0.200	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<b>2.04</b>	0.200	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<b>4.60</b>	0.600	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<b>6.64</b>	1.20	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 151 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>387</b>	50.0	12/24/2019	ND	199	99.6	200	1.36	
DRO >C10-C28*	<b>38400</b>	50.0	12/24/2019	ND	198	99.1	200	0.587	
EXT DRO >C28-C36	<b>7310</b>	50.0	12/24/2019	ND					

Surrogate: 1-Chlorooctane 167 % 41-142

Surrogate: 1-Chlorooctadecane 990 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 4 - 1' (H904261-11)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<0.300	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>13.8</b>	10.0	12/23/2019	ND	199	99.6	200	1.36		
<b>DRO &gt;C10-C28*</b>	<b>1120</b>	10.0	12/23/2019	ND	198	99.1	200	0.587		
<b>EXT DRO &gt;C28-C36</b>	<b>405</b>	10.0	12/23/2019	ND						

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 158 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: SP # 4 - 3' (H904261-12)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<0.300	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36	
DRO >C10-C28*	456	10.0	12/23/2019	ND	198	99.1	200	0.587	
EXT DRO >C28-C36	153	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 5 - SURFACE (H904261-13)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17		
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07		
Total BTEX	<0.300	0.300	12/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>16.0</b>	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36		
<b>DRO &gt;C10-C28*</b>	<b>12.2</b>	10.0	12/23/2019	ND	198	99.1	200	0.587		
<b>EXT DRO &gt;C28-C36</b>	<b>15.9</b>	10.0	12/23/2019	ND						

Surrogate: 1-Chlorooctane 78.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 5 - 1' (H904261-14)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<0.300	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36	
<b>DRO &gt;C10-C28*</b>	<b>270</b>	10.0	12/23/2019	ND	198	99.1	200	0.587	
<b>EXT DRO &gt;C28-C36</b>	<b>87.5</b>	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*—Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 6 - SURFACE (H904261-15)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
Total BTEX	<0.300	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	199	99.6	200	1.36	
<b>DRO &gt;C10-C28*</b>	<b>289</b>	10.0	12/23/2019	ND	198	99.1	200	0.587	
<b>EXT DRO &gt;C28-C36</b>	<b>289</b>	10.0	12/23/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 6 - 1' (H904261-16)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17		
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07		
Total BTEX	<0.300	0.300	12/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/24/2019	ND	212	106	200	0.968		
DRO >C10-C28*	<10.0	10.0	12/24/2019	ND	217	108	200	1.03		
EXT DRO >C28-C36	<10.0	10.0	12/24/2019	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 7 - SURFACE (H904261-17)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84	
Ethylbenzene*	<b>0.126</b>	0.050	12/26/2019	ND	2.14	107	2.00	3.17	
<b>Total Xylenes*</b>	<b>0.426</b>	0.150	12/26/2019	ND	6.38	106	6.00	4.07	
<b>Total BTEX</b>	<b>0.552</b>	0.300	12/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	12/23/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>80.3</b>	10.0	12/24/2019	ND	212	106	200	0.968		
<b>DRO &gt;C10-C28*</b>	<b>3320</b>	10.0	12/24/2019	ND	217	108	200	1.03		
<b>EXT DRO &gt;C28-C36</b>	<b>745</b>	10.0	12/24/2019	ND						

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 185 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	12/20/2019	Sampling Date:	12/19/2019
Reported:	12/30/2019	Sampling Type:	Soil
Project Name:	PHILLIPS E STATE #29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC- LEA CO NM		

**Sample ID: BG # 7 - 1' (H904261-18)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2019	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	12/26/2019	ND	2.13	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	2.14	107	2.00	3.17		
Total Xylenes*	<0.150	0.150	12/26/2019	ND	6.38	106	6.00	4.07		
Total BTEX	<0.300	0.300	12/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/24/2019	ND	212	106	200	0.968		
<b>DRO &gt;C10-C28*</b>	<b>432</b>	10.0	12/24/2019	ND	217	108	200	1.03		
<b>EXT DRO &gt;C28-C36</b>	<b>260</b>	10.0	12/24/2019	ND						

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Notes and Definitions**

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02        The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07        The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND            Analyte NOT DETECTED at or above the reporting limit
- RPD          Relative Percent Difference
- \*\*            Samples not received at proper temperature of 6°C or below.
- \*\*\*          Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**BILL TO**

**ANALYSIS REQUEST**

Company Name: ConocoPhillips	Project Manager: Justin Wright	P.O. #:	
Address: Hobbs	St NM	Company: COPC	
City: Hobbs	Zip:	Attn:	
Phone #: 575-631-9092	Fax #:	Address:	
Project #: Project Owner: COPC	City:	State:	
Project Name: Phillips E State #29	State:	Zip:	
Project Location: Lea County, NM	Phone #:		
Sample Name: Justin Wright	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H904261	SP#1-Surface	G							12-19					
	SP#1-1'	G							12-19					
	SP#1-3'	G							12-19					
	SP#2-Surface	G							12-19					
	SP#2-1'	G							12-19					
	SP#2-3'	G							12-19					
	SP#3-Surface	G							12-19					
	SP#3-1'	G							12-19					
	SP#3-3'	G							12-19					
	SP#4-Surface	G							12-19					

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of lease, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 12-20-19	Received By: <i>[Signature]</i>	Date: 12-20-19
Time: 1:00 PM		Time:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R-3-0	Observed Temp. °C -5.4	Corrected Temp. °C -5.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Checked By: <i>[Signature]</i>	Turnaround Time:	Standard Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Vertical Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 REMARKS:  
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ConocoPhillips

Project Manager: Justin Wright

Address:

City: Hobbs

St NM

Zip:

Phone #: 575-631-9092

Fax #:

Project #:

Project Owner: COPC

Project Name:

Phillips E State # 29

Project Location:

Lea County

Sampler Name:

Justin Wright

**BILL TO**

P.O. #:

Company: COPC

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11	SPH4-1'	G									12-19				
12	SPH4-3'	G									12-19				
13	BG#5-Surface	G									12-19				
14	BG#5-1'	G									12-19				
15	BG#6-Surface	G									12-19				
16	BG#6-1'	G									12-19				
17	BG#7-Surface	G									12-19				
18	BG#7-1'	G									12-19				

**PLEASE NOTE:** Liability and Damages. Cardenal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]

Date: 12-10-19

Received By: [Signature]

Verbal Result:  Yes  No  Add'l Phone #:

Relinquished By: [Signature]

Date: 1:00 PM

Received By: [Signature]

Delivered By: (Circle One)

Observed Temp. °C: -5.4

Corrected Temp. °C: -5.0

Sample Condition: Cool Intact  Yes  No

CHECKED BY: [Signature]

Turnaround Time: Standard  Rush

Thermometer ID #97

Bacteria (only) Sample Condition: Cool Intact  Yes  No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com