Holly Energy Partners Monument Section 35 Junction Section 35, Township 19S, Range 37E Lea County, New Mexico

Delineation-Work Plan Report

BL-1554 May 27, 2016



Prepared for:

Holly Energy Partners PO Box 250 Artesia, NM 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

Approved w/ stipulation 618/116

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Stipulation: Liner in excavation abound SPI TTL

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I. Company Contacts

Representative	Company	Telephone	E-mail
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II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as SESI., was contacted by Holly Energy Partners to conduct a site assessment of the Monument Sect 35 Junction situated in Section 35, Township 19S, Range 37E of Lea County, New Mexico. According to the C-141: A 30' section of 8' pipe that ties the central Grayburg Line receiving trap, and the manifold junction that transfers into the 6' line going to Hobbs Station had a hole allowing crude to escape. Holly Energy Partners took proactive measures by immediately shutting down, locked out and tagged out of service. Vacuum trucks, together with construction crews were dispatched to the location in order to conduct preliminary clean up and repairs. Visual surface impact was scraped up and placed on a plastic liner for proper disposal. Additional repairs were scheduled for May 05, 2016. There was an approximate 29 BBL loss of fluid. The vacuum trucks recovered approximately 18 BBL. The impacted area was contained primarily to the fenced in area of HEP property. The approximate area of impact measured 5,222 sq. ft. The NMOCD, as well as the NMED were notified on May 04, 2016.

III. Surface and Ground Water

According to the topography map for Lea County the depth to ground water for Section 35, Township 19S, Range 37E is approximately 30' bgs. Further research of the New Mexico Office of the State Engineer records, indicate the average depth to groundwater for the area to be 48' bgs. (Appendix B). During investigation of a previous spill at this site, SESI advanced a monitor well and noted that top of water was found at 40.20' bgs. On April 1, 2010 the NMOCD approved the plugging of the monitor well.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 1000 mg/kg (PPM) is also required.

(Vertical distance from contaminants to	Less than 50 feet	20 points	X
seasonal high water elevation of	50 feet to 99 feet	10 points	
groundwater)	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	X
water source; or less than 1000 feet from all other water sources)	No	0 points	
Distance to Surface Water:			
(Horizontal distance to perennial lakes.	Less than 200 feet	20 points	1. 1. 1. 1
(1	10 points	2
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	i o ponito	
ponds, rivers, streams, creeks, irrigation canals and ditches)	>1000 feet	0 points	X

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V. Work Performed

On May 18, 2016 SESI personnel, a representative from NMOCD, together with equipment and personnel from D & D Pipeline Construction, Inc. were on site to install test trenches to determine vertical extent of contamination. However, on Test trench one (1) and two (2) the backhoe encountered a caliche layer that could not be excavated 2' BGS. Jamie Keyes, NMOCD, was called to the site to observe the two test trenches that had refusal due to the hard caliche. Mr. Keyes agreed that in order to penetrate the hard caliche layer to check for contamination, a jack hammer should be utilized. Mr. Keyes also agreed that the use of a jack hammer next to the infrastructure at this facility in TT 1 would not be safe and that the caliche layer only needed to be penetrated in TT 2 which is outside the facility boundary.

On May 20, 2016 SESI personnel, along with personnel and equipment from D & D Pipeline Construction, Inc., revisited the site in order to break through rock in TT 2 in an attempt to determine the vertical extent of contamination. Field personnel were able to advance an additional 18" BGS. Representative soil samples were retrieved at 2.5' and 3' BGS. The soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico. The representative soil samples were analyzed for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) (Method BTEX 8021B), and Total Petroleum Hydrocarbons (Method TPH 8015M) (Appendix C). The results of the analysis are presented in the following table:

Sample Benzene Toluer Date 05/18/2016		Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH GRO	TPH DRO	EXT DRO
Depth								
TT-1 Surface	<2.00	3.07	5.29	19.2	19.2	3020	49100	11100
TT-1 2'	<0.100	0.277	<0.100	2.15	2.43	262	3710	997
TT-3 Surface	<0.200	0.429	1.27	5.22	6.92	615	19800	5040
TT-3 1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	153	53.4
TT-3 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	159	42.4
TT-3 3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0
TT-3 4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
TT-2 Surface	<2.00	4.12	9.31	35.7	49.1	4800	68500	7670
TT-2 2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	42.3
TT-2 3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.3	<10.0
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1.	

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VI. Action Plan

The vertical extent of contamination was determined in TT 2 and TT 3 at approximately 2' BGS. The caliche layer in TT 1 was not disturbed because of its proximity to the infrastructure in the facility. The spill area will be excavated to the top of the caliche layer in TT 1 and TT2 and to the depth of 2' in TT 3, where the caliche layer was not present. All contaminated soil will be transported to an NMOCD approved disposal facility and the excavation will be backfill with caliche and return to original grade. Bottom and side samples will be taken and transported to Cardinal Laboratories to confirm that sufficient contamination has been removed. A closure report will be prepared upon completion of the project.

VII. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – Photographs Appendix B – Groundwater Appendix C – Analytical Results Appendix D – Final C141

Holly Energy Partners Lea County, New Mexico

Figure 1 Vicinity Map



Holly Energy Partners Lea County, New Mexico

Figure 2 Site Plan



Holly Energy Partners

Appendix A Photographs

Holly Energy Partners Sec. 35 Monument



Spill Area looking SW



Spill Area lokking North



Spill Area looking West



Spill Area looking NW



Spill Area near Junction



Spill Area Source

Holly Energy Partners Sec. 35 Monument



Spill Area looking NE



Spill Area looking NE



Test Trench 2



Bottom of Test Trench 2 @ Refusal

Holly Energy Partners

Monument Section 35 Junction May 27, 2016

Appendix B Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)(R=POD has been replaced O=orphaned C=the file is closed)			i, (qua (qua	rter		(In feet)								
		POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code	basin (County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
L 00010		L	LE		4	2	32	19S	37E	662574	3610327* 🍯			
L 00061		L	LE		3	4	18	19S	37E	660501	3614325* 🌍	100		
L 00062		L	LE		4	4	18	19S	37E	660903	3614327* 🌍	93		
L 00066		L	LE	1	3	4	21	19S	37E	663641	3612855* 🌍	55	35	20
L 00156		L	LE	1	3	3	18	19S	37E	659610	3614421* 🌍	110		
L 00157		L	LE	2	3	3	18	19S	37E	659810	3614421* 🌍	110		
L 00564		L	LE	1	3	3	07	19S	37E	659583	3616034* 🌍	142		
L 00743		L	LE	2	1	1	34	19S	37E	664677	3610858* 🌍	40	20	20
L 00743 POD6		L	LE		1	1	34	19S	37E	664578	3610759* 🌍	44	21	23
L 00743 S		L	LE		1	1	34	195	37E	664578	3610759* 🌍	46	21	25
L 00743 S2		L	LE		1	1	34	19S	37E	664578	3610759* 🌍	46	21	25
L 00743 S3		L	LE	1	2	1	34	19S	37E	664879	3610864* 🌍	40	22	18
L 00743 S3	R	L	LE	1	2	1	34	19S	37E	664879	3610864* 🌍	40	22	18
L 00743 S4		L	LE	2	1	1	34	19S	37E	664677	3610858* 🌍	40	20	20
L 00744		L	LE	4	4	4	33	19S	37E	664294	3609447* 🌍	80	42	38
L 00744 S		L	LE	4	4	4	33	19S	37E	664294	3609447* 🍥	90	26	64
L 00744 S2		L	LE			3	34	195	37E	664798	3609755* 🌍	50		
L 00744 S3		L	LE	2	4	4	33	195	37E	664294	3609647* 🌍	50	27	23
L 01041		L	LE	1	2	2	02	19S	37E	667162	3618943* 🌍	90	45	45
L 01109 POD1		L	LE	4	3	1	<mark>08</mark>	195	37E	661365	3616639* 🌍	125		
L 01251		L	LE	4	1	1	29	195	37E	661434	3612218* 🌍	51	38	13
L 01252		L	LE	1	3	4	29	19S	37E	662058	3611223* 🌍	43		
L 01256		L	LE	3	4	4	32	19S	37E	662486	3609424* 🌍	46	32	14
L 01257		L	LE	3	1	4	07	19S	37E	660368	3616237* 🌍	120	80	40
L 01258		L	LE	4	4	1	21	19S	37E	663427	3613452* 🌍	71	71	0
L 01259		L	LE	1	2	1	19	19S	37E	660005	3614020* 🌍	85	44	41

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=PO been re O=orph C=the closed)	D has eplaced, naned, file is	(quai	rter	s a s a	re :	1=N\ smal	N 2=N lest to	NE 3=SW alargest)	/ 4=SE) (NAD83	3 UTM in meters)		(In feel	t)
POD Number	Code	POD Sub- basin C	ounty	Q	Q	Q	Sec	Tws	Rna	x	Y	Depth Well	Depth Water	Water
L 01267	ooder	L	LE	4	1	4	31	195	37E	660669	3609796* 🌍	42	28	14
L 01271		L	LE	4	2	2	31	19S	37E	661059	3610606* 🌍	38	20	18
L 01273		L	LE	3	4	4	19	195	37E	660827	3612617* 🌍	62	45	17
L 01276		L	LE	2	3	3	08	19S	37E	661378	3616035* 🌍	121	101	20
L 01277		L	LE	1	4	2	18	19S	37E	660790	3615231* 🌍	127	90	37
L 01610		L	LE	1	2	3	05	19S	37E	661547	3618050* 🌍	128	36	92
L 01611		L	LE	3	1	1	04	19S	37E	662741	3618673* 🌍	127	26	101
L 01751		L	LE		1	4	08	19S	37E	662076	3616350* 🌍	132		
L 01752		L	LE		4	2	10	195	37E	665686	3616805* 🌍	133	30	103
L 01753		L	LE		1	2	07	19S	37E	660455	3617144* 🌍	142	43	99
L 01817		L	LE		1	4	32	195	37E	662178	3609920* 🌍	85	12	73
L 01840	R	L	LE	3	1	2	01	19S	37E	668383	3618769* 🌍	105	36	69
L 01840 POD7		L	LE	2	4	1	01	19S	37E	668177	3618557* 🌍	170	110	60
L 01840 POD9		L	LE	4	3	2	01	195	37E	668584	3618366* 🌍	150	40	110
L 01840 S	R	L	LE		3	2	01	195	37E	668485	3618467* 🌍	166	28	138
L 01840 S2		L	LE	2	1	2	01	195	37E	668583	3618969* 🌍	143	50	93
L 01840 S3		L	LE	1	3	2	01	195	37E	668384	3618566* 🎑	145	55	90

3 1 2 01 19S 37E

2 2 2 01 19S 37E

3 1 2 01 19S 37E

1 3 2 01 19S 37E

1 3 2 01 19S 37E

3 3 3 33 19S 37E

4 2 2 02 19S 37E

4 2 2 28 19S 37E

1 3 1 27 19S 37E

2 2 4 01 19S 37E

2 06 19S 37E

3 4 16 19S 37E

668383

668985

668383

668384

668384

662888

667362

663716

664249

664458

668988

660638

3618769*

3618978*

3618769*

3618566*

3618566*

3609430*

3618743*

3614362*

3612259

3612063*

3618172*

3618552*

172

180

170

170

170

82

178

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48

42

163

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34

65

34

34

29

23

20

26

24

24

137

146

105

136

136

53

155

30

29

24

139

*UTM location was derived from PLSS - see Help

L 01840 S4

L 01840 S5

L 01840 S6

L 01841

L 01841

L 01904

L 01968

L 01975

L 02059

L 02060

L 02182

L 02200

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(A CLW###### in the POD suffix indicates POD has been repla & no longer serves a	the been ced O=orp C=the	DD has replaced haned, file is	l, (quai	rter	's a	ire	1=N	W 2=1	NE 3=SW	4=SE)				
water right file.)	closed	i) POD	(quai	rter	sa	re	sma	llest to	argest)	(NAD8:	3 UTM in meters)		(In feet)
		Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code	basin C	ounty	64	116	34	Sec	100	Rng	X	Y	Well	Water	Column
L 02200 POD3						2	00	193	37E	000431	3010734	107	33	134
L 02200 POD4		L	LE		1	2	06	195	37E	660431	3618754* 🌍	1//	48	129
L 02200 POD5		L	LE	1	2	1	06	195	37E	659929	3618855* 🌍	182	122	60
L 02200 POD6		L	LE	3	1	2	06	195	37E	660254	3618718 🌍	200	72	128
L 02200 S	R	L	LE		1	2	06	195	37E	660431	3618754* 🌍	178	36	142
L 02201		L	LE			2	06	19S	37E	660638	3618552* 🌍	173	30	143
L 02201	R	L	LE			2	06	19S	37E	660638	3618552* 🌍	173	30	143
L 02333		L	LE		4	4	08	195	37E	662484	3615953* 🌍	110	42	68
L 02429		L	LE		3	1	04	195	37E	662847	3618371* 🌍	50	23	27
L 02490		L	LE	2	3	1	04	19S	37E	662946	3618470* 🌍	92	40	52
L 02596		L	LE			3	29	19S	37E	661556	3611315* 🌍	50	20	30
L 02601		L	LE		3	3	06	195	37E	659655	3617548* 🌍	115	60	55
L 02602		L	LE		1	1	16	195	37E	662893	3615557* 🌍	96	42	54
L 02615		L	LE	2	1	3	18	19S	37E	659803	3614824* 🌍	118	68	50
L 02621		L	LE	3	2	3	21	195	37E	663233	3613050* 🌍	83	40	43
L 02695		L	LE	3	4	3	06	19S	37E	659946	3617446* 🌍	100	50	50
L 02893		L	LE	2	2	4	01	19S	37E	668988	3618172* 🌍	100	35	65
L 02996		L	LE	3	3	3	08	19S	37E	661178	3615835* 🌍	142	54	88
L 02996 S		L	LE	4	1	1	08	195	37E	661358	3617041* 🌍	150	70	80
L 03074		L	LE		4	2	07	195	37E	660864	3616740* 🍏	90	65	25
L 03103		L	LE			1	03	19S	37E	664655	3618597* 🌍	110	42	68
L 03161		L	LE		2	2	14	19S	37E	667313	3615627* 🌍	80	20	60
L 03181		L	LE	2	3	3	10	19S	37E	664591	3616080* 🌍	130	35	95
L 03185		L	LE		4	2	16	195	37E	664104	3615171* 🌍	86	45	41
L 03208		L	LE		3	1	10	195	37E	664479	3616785* 🌍	100	35	65
L 03228		L	LE		4	4	16	19S	37E	664118	3614367* 🌍	102	42	60
L 03234		L	LE		1	1	10	19S	37E	664473	3617188* 🌍	112	26	86
L 03313		L	LE		1	1	22	19S	37E	664526	3613971* 🌍	90	40	50
L 03369		L	LE		4	3	07	19S	37E	660074	3615935* 🤮	95	45	50

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=P0 been O=orp C=the closed	OD has replaced ohaned, e file is d)	l, (quai (quai	rter	s a	re	1=N smal	W 2=N	NE 3=SW a largest)	/ 4=SE) (NAD83	BUTM in meters)		(In feel)
		POD Sub-		0	0	0						Denth	Denth	Water
POD Number	Code	basin (County	64	116	5 4	Sec	Tws	Rng	x	Y	Well	Water	Column
L 03380		L	LE	2	1	2	32	19S	37E	662265	3610822* 🌍	40	35	5
L 03387		L	LE	1	1	3	22	19S	37E	664438	3613268* 🌍	95	35	60
L 03403		L	LE		3	1	10	19S	37E	664479	3616785* 🌍	85	35	50
L 03417		L	LE		3	3	15	19S	37E	664520	3614373* 🌍	96	44	52
L 03474		L	LE		4	2	24	19S	37E	668954	3613647* 🌍	83	48	35
L 03515		L	LE		2	3	27	19S	37E	664967	3611569* 🌍	57	35	22
L 03517		L	LE		1	1	15	19S	37E	664499	3615579* 🌍	72	45	27
L 03525		L	LE			3	15	19S	37E	664721	3614574* 🌍	100	50	50
L 03557		L	LE	3	3	1	07	19S	37E	659568	3616641* 🌍	143	52	91
L 03738		L	LE		4	4	33	19S	37E	664195	3609548* 🌍	72	31	41
L 03744		L	LE				07	19S	37E	660287	3616538* 🌍	100	50	50
L 03884		L	LE				28	19S	37E	663567	3611738* 🌍	47	30	17
L 03885		L	LE				28	19S	37E	663567	3611738* 🥘	47		
L 03905		L	LE		4	4	30	19S	37E	660953	3611109* 🌍	35	20	15
L 03906		L	LE		4	4	30	19S	37E	660953	3611109* 🌍	35	20	15
L 03922		L	LE				29	19S	37E	661958	3611717* 🌍	42	22	20
L 03938		L	LE			4	32	195	37E	662386	3609719* 🌍	40	25	15
L 03949		L	LE				29	195	37E	661958	3611717* 🍏	36	18	18
L 03954		L	LE		4	4	30	195	37E	660953	3611109* 🌍	35	20	15
L 03956		L	LE				29	19S	37E	661958	3611717* 🍪	40	20	20
L 03982		L	LE		3	3	28	195	37E	662964	3611135* 🌍	43	31	12
L 03988	R	L	LE	3	3	3	33	19S	37E	662888	3609430* 🌍	75	29	46
L 03993		L	LE		3	3	33	19S	37E	662989	3609531* 🌍	75	29	46
L 03995		L	LE		4	4	30	19S	37E	660953	3611109* 🌍	35	20	15
L 04105		L	LE	3	3	1	27	19S	37E	664458	3611863* 🌍		24	
L 04108		L	LE		2	4	21	19S	37E	664138	3613163* 🌍	70	22	48
L 04313		L	LE		1	1	19	19S	37E	659718	3613919* 🌍	116	52	64
L 04405		L	LE			3	33	19S	37E	663190	3609732* 🌍	45	37	8
L 04448 POD2		L	LE	3	3	3	33	19S	37E	662888	3609430* 🌍	46	36	10

(A CLW##### in the POD suffix indicates the	(R=POD has been replaced,			
POD has been replaced	O=orphaned,			
& no longer serves a	C=the file is	(quarters are 1=NW 2=NE 3=SW 4	4=SE)	
water right file.)	closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)	(In feet)

	Sub-		Q	Q	Q						Depth	Depth	Water
POD Number L 04466 POD1	Code basin	LE	64	16	4	Sec 04	Tws 19S	Rng 37E	X 663657	Y 3617981* 🥌	Well 145	Water 20	Column 125
L 04799	L	LE				29	19S	37E	661958	3611717* 🥌	150		
L 04806	L	LE			3	33	19S	37E	663190	3609732* 🌍	60	35	25
L 04809	L	LE			3	33	19S	37E	663190	3609732* 🍏	60	35	25
L 04842	L	LE		3	3	33	19S	37E	662989	3609531* 🌍	60	35	25
L 04917	L	LE	1	1	4	04	19S	37E	663556	3618080* 🌍	120	50	70
L 04921	L	LE	2	2	2	12	195	37E	669035	3617464 🌍	142	25	117
L 04921 X	L	LE	2	4	2	12	19S	37E	669035	3617036 🌍	132	30	102
L 04929	L	LE			3	33	19S	37E	663190	3609732* 🌍	55	27	28
L 05049	L	LE			3	32	19S	37E	661581	3609707* 🌍	50	27	23
L 05306	L	LE	4	4	2	31	19S	37E	661065	3610203* 🌍	30	20	10
L 05314	L	LE	1	3	4	29	19S	37E	662058	3611223* 🌍	34	14	20
L 05336	L	LE	4	2	1	21	19S	37E	663420	3613853* 🌍	71	30	41
L 05433	L	LE		4	1	19	19S	37E	660112	3613518* 🌍	5790	1072	4718
L 05466	L	LE	2	3	1	11	19S	37E	666187	3616910* 🌍	45	22	23
L 05500	L	LE	2	4	4	29	19S	37E	662661	3611229* 🌍	55		
L 05565 POD3	L	LE				28	19S	37E	663567	3611738* 🌍	70		
L 05569	L	LE	4	4	4	35	19S	37E	667508	3609495* 🌍	5200	1008	4192
L 05579	L	LE		4	2	31	195	37E	660966	3610304* 🌍	35	27	8
L 05611 POD3	L	LE	2	2	3	29	195	37E	661850	3611620* 🍏	80	28	52
L 05611 POD4	R L	LE	2	2	1	20	19S	37E	661812	3614032* 🌍	105	53	52
L 05611 POD5	L	LE	1	1	1	18	19S	37E	659590	3615631* 🌍	134	35	99
L 05995	L	LE		4	4	30	19S	37E	660953	3611109* 🌍	40	23	17
L 06125 POD1	L	LE	3	2	3	10	19S	37E	664787	3616289* 🌍	150	65	85
L 06216	L	LE	1	1	2	04	19S	37E	663544	3618885* 🌍	166	46	120
L 06492	L	LE		1	1	32	19S	37E	661362	3610712* 🌍	50	27	23
L 06496	L	LE	3	4	3	29	19S	37E	661656	3611018* 🌍	50	27	23
L 06748	L	LE	4	3	3	31	19S	37E	659886	3609381* 🌍	80	44	36
L 06761	L	LE			3	33	19S	37E	663190	3609732* 🌍	50	27	23

(A CLW###### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced, O=orphaned,	(quarters are 1=NW 2=NE 3=SW)	1=SE)	
water right file.)	closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)	(In feet)

	Sut	D)-	Q	Q	Q						Depth	Depth	Water
POD Number	Code basi	in County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
L 06796	L	LE		1	2	33	195	37E	663773	3610747*	80		
L 06814	L	LE	4	2	1	03	19S	37E	664950	3618703* 🍯	100	30	70
L 06933	L	LE	3	2	4	17	19S	37E	662403	3614646* 🌍	100	65	35
L 07223	L	LE	2	3	3	28	19S	37E	663063	3611234* 🌍	60		
L 07256	L	LE			2	04	19S	37E	663852	3618584* 🥥	137	65	72
L 07513	L	LE	3	1	4	33	19S	37E	663685	3609843* 🌍	45	35	10
L 07513 S	L	LE	3	1	3	34	19S	37E	664490	3609855* 🌍	44	25	19
L 07513 S2	L	LE			4	33	19S	37E	663994	3609743* 🌍	45	35	10
L 07626	L	LE	1	1	4	32	19S	37E	662077	3610019* 🌍	30		
L 08217	L	LE	3	3	1	27	19S	37E	664458	3611863* 🌍	.50	18	32
L 08501	L	LE	4	3	4	33	19S	37E	663892	3609441* 🌍	43	29	14
L 08559	L	LE	1	1	1	03	19S	37E	664348	3618897* 🌍	121	40	81
L 08803	L	LE	1	1	1	34	19S	37E	664477	3610858* 🌍	41	25	16
L 09127	L	LE	3	4	4	33	19S	37E	664094	3609447* 🌍	52	40	12
L 09128	L	LE	1	3	3	33	19S	37E	662888	3609630* 🌍	30	26	4
L 09129	L	LE		3	4	33	195	37E	663793	3609542* 🌍	52	43	9
L 09163	L	LE	1	4	3	21	19S	37E	663239	3612849* 🌍	60	47	13
L 09631	L	LE		1	4	29	19S	37E	662153	3611526* 🌍	35		
L 09632	L	LE		1	4	29	19S	37E	662153	3611526* 🌍	35		
L 09633	L	LE		1	4	29	19S	37E	662153	3611526* 🍪	35		
L 09681	L	LE	3	1	4	33	195	37E	663685	3609843* 🌍	52	39	13
L 09739	R L	LE	1	2	4	01	19S	37E	668981	3618236 🌍	96	32	64
L 09768	L	LE		1	1	34	19S	37E	664578	3610759* 🌍	39	24	15
L 10166 POD1	L	LE	4	4	3	34	19S	37E	665098	3609459* 🌍	35		
L 10166 POD2	L	LE	4	4	3	34	19S	37E	665098	3609459* 🌍	35		
L 10166 POD3	L	LE	4	4	3	34	19S	37E	665098	3609459* 🌍	35		
L 10238	L	LE		4	3	21	19S	37E	663340	3612750* 🌍	60	30	30
L 10271	L	LE		1	1	18	19S	37E	659691	3615532* 🌍	137	70	67
L 10277	L	LE	2	2	4	19	19S	37E	661020	3613219* 🌍	70	40	30

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quar (quar	ters	are are	1=N smal	W 2=N llest to	NE 3=SW b largest)	4=SE) (NAD83	3 UTM in meters)		(In feet)
	POD Sub-		0	ດ	,					Depth	Depth	Water
POD Number	Code basin C	ounty	64 1	6 4	Sec	: Tws	Rng	x	Y	Well	Water	Column
L 10295	L	LE	4	1 3	21	19S	37E	663340	3612750* 🌍	70	30	40
L 10386	L	LE	2 2	2 1	34	19S	37E	665079	3610864* 🌍	34	21	13
L 10391	L	LE	1	1	34	19S	37E	664578	3610759* 🌍	44	21	23
L 10397	L	LE		1	33	19S	37E	663177	3610534* 🌍	34	13	21
L 10403	L	LE	2 1	1	34	195	37E	664677	3610858* 🌍	41	20	21
L 10498	L	LE			29	19S	37E	661958	3611717* 🌍	60		
L 10799	L	LE	4 4	4	13	19S	37E	669039	3614352* 🌍	113	27	86
L 10799 S	L	LE	4 1	4	13	19S	37E	668561	3614659 🌍	110	100	10
L 11313	L	LE	1 2	2 1	03	19S	37E	664838	3618851 🌍	180		
L 11873 POD1	L	LE	1 2	2 1	28	195	37E	663246	3612447* 🌍	71		
L 12457 POD1	L	LE	4 4	1 3	34	195	37E	665007	3609413 🌍	74	60	14
L 13109 POD1	L	LE	4 2	2 1	03	19S	37E	665052	3618818 🌍	20		
L 13491 POD1	L	LE	3 1	3	32	19S	37E	661329	3609819 🌍	30		
L 13521 POD1	L	LE	4 4	3	20	19S	37E	661504	3612887 🌍	34	22	12
L 13522 POD1	L	LE	3 3	3	30	19S	37E	659988	3611366 🌍	28	21	7
L 13522 POD2	L	LE	3 3	3	30	19S	37E	660018	3611255 🌍	30	21	9
L 13523 POD1	L	LE	1 3	3 3	15	19S	37E	660147	3609717 🌍	46	35	11
L 13525 POD1	L	LE	4 3	3 4	19	195	37E	660096	3612717 🌍	30	21	9
L 13926 POD1	L	LE	2 3	3 3	20	195	37E	661484	3612874 🌍	32	21	11
L 13926 POD2	L	LE	2 3	3	20	19S	37E	661495	3612857 🌍	32	21	11
L 13926 POD3	L	LE	2 3	3 3	20	19S	37E	661485	3612865 🌍	32	21	11
L 14083 POD1	L	LE	34	2	34	19S	37E	665656	3610288 🌍	70	20	50
										1.	1.1.1	

Average Depth to Water: 48 feet

Minimum Depth: 12 feet Maximum Depth: 1072 feet

Record Count: 193

PLSS Search:

Township: 19S Range: 37E

*UTM location was derived from PLSS - see Help

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

Page 7 of 7

Holly Energy Partners

Appendix C Analytical Results



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

May 26, 2016

Bob Allen Safety & Environmental Solutions 703 East Clinton

RE: HEP-16-006

Hobbs, NM 88240

Enclosed are the results of analyses for samples received by the laboratory on 05/20/16 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-1 SURFACE (H601110-01)

BTEX 8021B	mg/l	g	Analyze	d By: MS		and a start of the second states of			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	3.07	2.00	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	5.29	2.00	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	19.2	6.00	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	27.5	12.0	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	73.6-14	0						
TPH 8015M	mg/l	g	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3020	200	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	49100	200	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	11100	200	05/21/2016	ND					
Surrogate: 1-Chlorooctane	236 %	35-147	-V				1. 1. 1. 1		
Surrogate: 1-Chlorooctadecane	821 %	28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-1 2' BGS (H601110-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	0.277	0.100	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0.100	0.100	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	2.15	0.300	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	2.43	0.600	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	130 9	6 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	262	100	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	3710	100	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	997	100	05/21/2016	ND					
Surrogate: 1-Chlorooctane	120 %	6 35-147						i ki	
Surrogate: 1-Chlorooctadecane	167 %	6 28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

05/20/2016	Sampling Date:	05/18/2016
05/26/2016	Sampling Type:	Soil
HEP-16-006	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Brittany Feller
NOT GIVEN		
	05/20/2016 05/26/2016 HEP-16-006 NONE GIVEN NOT GIVEN	05/20/2016Sampling Date:05/26/2016Sampling Type:HEP-16-006Sampling Condition:NONE GIVENSample Received By:NOT GIVENSample Received By:

Sample ID: TT-3 SURFACE (H601110-03)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	0.429	0.200	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	1.27	0.200	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	5.22	0.600	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	6,92	1.20	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 %	5 73.6-140	0						
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	615	200	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	19800	200	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	5040	200	05/21/2016	ND					
Surrogate: 1-Chlorooctane	137 %	35-147						4	1.
Surrogate: 1-Chlorooctadecane	494 %	28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-3 1' BGS (H601110-04)

BTEX 8021B	mg/l	kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	<0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0.050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	5 73.6-14	0					6	
TPH 8015M	mg/l	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	153	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	53.4	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	75.8 %	6 35-147							a gar
Surrogate: 1-Chlorooctadecane	112 %	28-171							

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Numbe	r: NONE GIVEN	Sample Received By:	Brittany Feller
Project Locatio	n: NOT GIVEN		

Sample ID: TT-3 2' BGS (H601110-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	<0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0.050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 73.6-14	0	In Mary					
TPH 8015M	mg/	kg	Analyze	d By: MS				A Start	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	159	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	42.4	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	93.0 9	% 35-147					1	1 3	
Surrogate: 1-Chlorooctadecane	112 %	6 28-171							

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-3 3' BGS (H601110-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS				11 St	() - · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	<0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0,050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 73.6-14	0						
ТРН 8015М	mg/	kg	Analyze	d By: MS					Acres
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	10.4	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	<10.0	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	76.3 %	6 35-147							
Surrogate: 1-Chlorooctadecane	98.3 %	6 28-171							

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Celeg D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		
	Received: Reported: Project Name: Project Number: Project Location:	Received:05/20/2016Reported:05/26/2016Project Name:HEP-16-006Project Number:NONE GIVENProject Location:NOT GIVEN	Received:05/20/2016Sampling Date:Reported:05/26/2016Sampling Type:Project Name:HEP-16-006Sampling Condition:Project Number:NONE GIVENSample Received By:Project Location:NOT GIVEN

Sample ID: TT-3 4' BGS (H601110-07)

BTEX 8021B	mg/k	g	Analyze	d By: MS	-			-	N.E
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	< 0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0.050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	73.6-14	0						
TPH 8015M	mg/k	g	Analyze	d By: MS				1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	<10.0	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	<10.0	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	84.8 %	35-147							
Surrogate: 1-Chlorooctadecane	104 %	28-171							

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Celeg D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/20/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-2 SURFACE (H601110-08)

BTEX 8021B	mg/l	g	Analyze	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	4.12	2.00	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	9.31	2.00	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	35.7	6.00	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	49.1	12.0	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	73.6-140)						
TPH 8015M	mg/k	g	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4800	200	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	38500	200	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	7670	200	05/21/2016	ND					
Surrogate: 1-Chlorooctane	307 %	35-147						1999 - 1997 - 19	
Surrogate: 1-Chlorooctadecane	771 %	28-171							

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Calley D. Freene



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/20/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-2 2' BGS (H601110-09)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	<0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0,050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 73.6-140)				N		
TPH 8015M	mg/l	kg	Analyze	d By: MS				1.5	1.11.12
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	98,6	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	42.3	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	84.1 %	6 35-147							R. P.
Surrogate: 1-Chlorooctadecane	114 %	28-171							

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Cellery D. Keene



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	05/20/2016	Sampling Date:	05/20/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	HEP-16-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Brittany Feller
Project Location:	NOT GIVEN		

Sample ID: TT-2 3' BGS (H601110-10)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/23/2016	ND	2.10	105	2.00	0.0424	
Toluene*	< 0.050	0.050	05/23/2016	ND	2.02	101	2.00	0.393	
Ethylbenzene*	<0.050	0.050	05/23/2016	ND	1.82	90.9	2.00	0.650	
Total Xylenes*	<0.150	0.150	05/23/2016	ND	5.77	96.2	6.00	1.07	
Total BTEX	<0.300	0.300	05/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.6-140	0						
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	05/21/2016	ND	193	96.3	200	1.82	
DRO >C10-C28	15.3	10.0	05/21/2016	ND	202	101	200	6.77	
EXT DRO >C28-C35	<10.0	10.0	05/21/2016	ND					
Surrogate: 1-Chlorooctane	83.6 %	6 35-147							
Surrogate: 1-Chlorooctadecane	97.7 9	6 28-171							

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Celeg D. Keene



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.
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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 14



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Huo1110-City: Relinquished By Relinquished B Sampler Name: Project Location Project Name: Project #: HEP-16-006 Project Manager: PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dailm anising whether based in contract or tort, shall be limited to the amount paid by the client for the unalysee. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 3D days after completion of the applicable Phone #: Company Name: Address: Delivered By: (Circle One) FOR LAB USE ONLY rice. In no event shall Cardinal be liable for incidental or cons Lab I.D 3 cessors arising out of or related to the perform 575 397-0510 Hobbs 703 East Clinton 7-3 2-3 11-1 (575) 393-2326 FAX (575) 393-2476 2 1-3 1-3 Safety and Environmental Solutions Bob Allen Sample I.D. NA ł 3 ž A.F. PO 55/20/16 vental damages, including without limitation, business inte Date: Project Owner: Fax #: Box 1613 Ime: State: J:35 Bas RGS 575 393-4388 MN 20000 Zip: rdinal, regardless of whather such claim is based upon any of the above stated masons or otherwise. Received By: Phone Result: 20 Received By: Received By (G)RAB OR (C)OMP # CONTAINERS 88240 g GROUNDWATER Sample Condition Cool Intact Yes Yes No No WASTEWATER MATRIX 2 6 XXXXX SOIL 57 OIL ons, loss of use, or loss of profits incurred by client, its subsidiaries. SLUDGE State: Fax #: Attn: P.O. #: OTHER City: Phone #: Address Company: PRESERV. ACID/BASE CHECKED BY: BBB ICE / COOL 10 6 6 BILL TO OTHER Same 051.8 05/18 5150 05/18 (000 05/18 09100 05 Zip DATE SAMPLING 10 0935 (020 Cars 0920 Fax Result: REMARKS: 0830 TIME BTEX □ Yes 8015 P No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

6.8°

(Initials)

11-11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	Lab I.D. S Humilo- 10 T-Z 10 T-Z	FOR LAB USE ONLY	Project Location:	Project Name:	Project #: HEP-(6-	Phone #: 575 397-05	city: Hobbs	Address: 703 East C	Project Manager: Bob	Company Name: Safet
inal's lability and client's each usive removely for	Sunfrances Sunfrances Start 1345 3 Ar 1345				006 Project Owne	10 Fax #: 575	State: NM	Clinton, PO Box 1613	Allen	-2326 FAX (575) 393-24 ty and Environmental S
any dam antiang whather based in contrast any dam antiang whather based in contrast common waived unless made in writing an g without limitation, business interruptions, Cardinal, recerived By: Received By:	GROUNDWATER WASTEWATER GOIL OIL SLUDGE	MP. MATRIX			17	393-4388	Zip: 88240			olutions
t or rord, shall be immed to the amount, per ror nord, shall be immed to the amount, per ror based upon any of the above stated re- ro based upon any of the above stated re-	OTHER : ACID/BASE: ACID/BASE: ICE / COOL OTHER : OTHER :	PRESERV. SAMPLI	Phone #: Fax #:	State: Zip:	City:	Address:	Attn:	Company: Same	P.O. #:	BILL TO
d by the client for the r complesion of the applicable start, its subschares, Phone Result: Phone Result: Pax Result: Yes N REMARKS:	USO X BTEY	XG (80	515	~	n)					
o Add'I Phone #:										ANALYSIS REQUE

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V No

Holly Energy Partners

Monument Section 35 Junction May 27, 2016

> Appendix D C-141

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 5. 50. 114	icis Di., Sain	a 1 0, 14141 0750.	5	S	anta F	e, NM 875	505		A Store & Marine Marine	
			Rele	ease Notifi	catio	n and Co	orrective A	ction		
						OPERA	TOR	🖂 Initi	al Report 🔲 Final Repor	
Name of C	ompany H	HOLLY ENI	ERGY PA	RTNERS		Contact MELANIE ISENBERG				
Address 1602 W MAIN ST						Telephone No. 214-605-8303				
Facility Na	me MON	UMENT SE	СТ 35 Л	INCTION		Facility Typ	e CRUDE OII	L MANIFOLD/P	IG STATION	
Surface Owner COMMISSIONER OF Mineral Owner							See State The Second		API No.	
PUBLIC LANDS NEW MEXICO STATE OF NEW						W MEXICO		BL-15	BL-1554	
				LOC	ATIO	N OF RE	LEASE			
Unit Letter	etter Section Township Range 35 19 S 37 E Feet from the N		North	/South Line	Feet from the	East/West Line	County LEA			
		Lat	itude_32	2.61825		_Longitud	e103.214	436		
1	- Le - L			NAT	FURE	OF REL	EASE			
Type of Rele	Type of Release Crude Oil						f Release 29 Bar	rels Volume	Volume Recovered 18 Barrels	
Source of Release UNDERGROUND PIPELINE						Date and Hour of Occurrence 5/4/2016 UNKNOWN		ce Date and 5/4/2016	Date and Hour of Discovery 5/4/2016 1333	
Was Immediate Notice Given?						If YES, To Whom? NMOCD AND NMED				
By Whom? MELANIE ISENBERG						Date and Hour 5/4/2016				
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.				
			Yes 🛛	No			oranie impresing			
If a Waterco	ourse was Im	npacted, Descr	tibe Fully.	ł					184.31	
Describe Ca	use of Prob	lem and Reme	dial Action	n Taken.* A 30	FT SEC	TION OF 8'	PIPE THAT TIES	S THE CENTRAL	GRAYBURG LINE	
RECEIVING	G TRAP AN	ND THE MAN	IFOLD JU	UNCTION THAT	T TRAN	SFERS INTO	THE 6' LINE C	GOING TO HOBBS	S STATION HAD A HOLE.	
ABO AND	CENTRAL	BATTERIES	WERE IN	IMEDIATELY S	SHUT D	OWN, LOCK	ED OUT AND	FAGGED OUT OF	SERVICE. VACUUM	
TRUCKS A	LONG WIT	TH CONSTRU	D FLANC	RES WERE DIS	SPATCH	IED TO LOC	ATION TO BEG	IN THE PROCESS	S OF CLEAN UP AND	
CONTAMIN	NATION W	AS GATHER	ED ONTO	PLASTIC FOR	DISPO	SAL AND/O	R REMEDIATIO	N.	5/5/10. SUKFACE	
Describe Ar	ea Affected	and Cleanup	Action Tal	cen.* THE ARE	A AFFI	ECTED IS M	AINLY CONTA	NED TO THE FE	NCED IN AREA OF HEP	
PROPERTY	. APPROX	IMATE SQU	ARE FOO	TAGE OF SPIL	L AREA	A IS 5,222 SQ	FT. SITE ASSE	ESSMENT WAS C	ONDUCTED BY AN	
ENVIRONA	SESI WIL	LCONDUCT	T REPRES	ENTATIVE FR	OM HE	P AND EU E	ALLEN OF SAF	ETY AND ENVIR	CONMENTAL SOLUTIONS,	
WORKPLA	N WITH A	GENCY. WI	LL INITIA	LLY GATHER	THE MO	OST HIGHLY	CONTAMINA	TED SOIL.	EFORT AND FROFOSED	
I hereby cert	tify that the	information g	iven above	is true and com	plete to t	the best of my	knowledge and	understand that pur	suant to NMOCD rules and	
regulations a	all operators	are required	to report an	nd/or file certain	release r	notifications a	and perform corre	ctive actions for rel	eases which may endanger	
public health	n or the envi	ironment. The	acceptance	ce of a C-141 rep	ort by th	ne NMOCD n	narked as "Final I	Report" does not rel	ieve the operator of liability	
should their	operations I	have failed to	adequately	investigate and	remedia	te contaminat	ion that pose a th	reat to ground wate	r, surface water, human health	
federal, state	, or local la	ws and/or reg	ulations.	hance of a C-141	report	locs not rene	ve the operator of	responsionity for t	compliance with any other	
- 2.2	19.6			\bigcirc			OIL CON	SERVATION	DIVISION	
Signature: Milanie Isenberg										
Printed Name: MELANIE ISENBERG						Approved by Environmental Specialist:				
Title: ENVIRONMENTAL ASSOCIATE						Approval Da	ite:	Expiration	Date:	
E-mail Address: MELANIE.ISENBERG@HOLLYENERGY.COM						Conditions o	of Approval:		Attached	
Date: 5/17	/16	Phone: 21	4-605-830	3		and the second				

* Attach Additional Sheets If Necessary