



June 22, 2017

Olivia Yu Environmental Specialist New Mexico Oil Conservation Division, District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: Work Plan for Site Characterization

Bell No. 1 Facility Flowline Release

Bagley North Oil Field, Lea County, New Mexico

NE1/4 NE1/4, Sec. 21, T11S, R33E

NMOCD Case No. 1R-4702

APPROVED

By Olivia Yu at 9:56 am, Jul 03, 2017

NMOCD approves of the proposed additional delineation for 1RP-4702. Permissible chloride levels of 250 mg/kg must be obtained and maintained for 10 ft. further in depth. All laboratory analyses must have accompanying field data.

Dear Ms. Yu:

On behalf of Jay Management, LLC (Jay Management), Timberwolf Environmental, LLC (Timberwolf) prepared this work plan for site characterization at the Bell No. 1 Facility (Site) to assess impacts related to a recent flowline release. The Site is located in the Bagley North Oil Field approximately 6.2 miles southeast of Caprock, Lea County, New Mexico (Figures 1 through 3). The release response actions, initial site assessment, and the site characterization work plan are discussed below.

Site Setting

The Site consists of a wellhead, one above-ground oil storage tank, one above-ground produced water tank, and one heater treater.

The surrounding area is characterized as flat to slightly sloping rural land used for cattle grazing and oil and gas production. According the United States Department of Agriculture – Natural Resources Conservation Service web soil survey of Lea County, New Mexico, soils at the Site are mapped as the Kimbrough – Lea complex, 0 to 3 percent slopes (KU). This soil type consists of gravelly loam in the upper 3 inches, loam from 3 to 10 inches, and underlain by cemented material to a depth of 80 inches.

Release Response Actions

The release occurred on 01/16/17 from a damaged polyline located between the heater treater and trunkline. An estimated 5 barrels (bbl) of produced water was released. Jay Management repaired the polyline, recovered free fluids from the ground surface, and tilled most of the spill area. Written notification of the release was made to the New Mexico Oil Conservation Division (NMOCD) on 05/16/17; a copy of Form C-141 is attached.

Initial Assessment

On 05/22/17, Timberwolf personnel mobilized to the Site to map the apparent release impact area and obtain soil samples to assess the magnitude of the impacts (Figure 4). The release traveled south and east encompassing an irregularly shaped area of approximately 0.47 acres. Site conditions are documented in the attached Photographic Log (Photographs 1 through 4).

Soil Sampling

On 05/22/17, Timberwolf personnel collected soil samples from three locations. Sample locations are shown on the Sample Location and Release Area Map (Figure 3) and summarized in Table 1.

Soil Boring

Location – Purpose

SB1

Collected near the point of release to evaluate remediation efforts

SB2 and SB3

Collected within the tilled portion of the release area to further evaluate remediation efforts within the main body of release

Table 1. Soil Sample Locations and Purpose

All samples were collected using a pick-ax and shovel from 0 to 1 foot below ground surface (ft bgs). Deeper samples were unobtainable with hand tools due to refusal from the rocky/cemented soils.

The soil samples were placed in laboratory-provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to the TestAmerica Laboratories in Denver, Colorado. The laboratory reports and chain-of-custody documents are attached.

Site-Specific Cleanup Criteria

The New Mexico Oil Conservation Division (NMOCD) has established remediation action levels for soils impacted by oilfield products or wastes, which are documented in the *Guidelines for Remediation of Leaks, Spills and Releases*. The closure criteria utilize a ranking system that scores the potential to contaminate based upon a site's distance to water resources. The ranking system is summarized in Table 2.

Distance to Resource Category **Score** (feet) < 50 20 50 to 99 10 Depth to groundwater > 100 0 < 200 20 Water wellhead protection 0 > 200 < 200 20 10 Surface water protection 200 to 1,000 > 1,000 0

Table 2. NMOCD Ranking System

Sites receive a score from each category. The three (3) scores are summed to reach a total ranking score, which provides site-specific remediation action levels.



Based on prior environmental drilling activities in the Bagley Field, the upper groundwater-bearing unit is expected to be encountered at approximately 40 ft bgs, which results in a score of 20. No surface water bodies were identified within 1,000 ft of the Site, which results in a score of zero (0). No water wellheads are located within 200 ft of the Site, which results in a score of zero (0). Therefore, the total ranking score at the Site is 20. Based on the NMOCD criteria, the site-specific cleanup criteria are presented in Table 3.

Table 3. OCD Cleanup Criteria by Total Ranking Score

Constituent	Total Ranking Score								
Constituent	> 19	0-9							
	Corre	Corresponding Cleanup Criteria (mg/kg)							
Benzene	10	10	10						
Total BTEX	50	50	50						
TPH	100	1,000	5,000						
Chlorides	250	500	1,000						

BTEX - benzene, toluene, ethylbenzene and xylenes

TPH – total petroleum hydrocarbons

mg/kg – milligrams per kilogram

Bold - scores utilized for the Site

Analysis of Soil Samples

The soil samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), and chloride. Analytical methods are documented in the attached laboratory reports. Soil analytical results are shown in Table 4.

Table 4. Soil Analytical Results - 05/22/17

Commis ID	TPH		Volatile Org	anic Compounds	(mg/kg)		Chloride
Sample ID	(mg/kg)	В	Т	E	х	Total BTEX	(mg/kg)
SB1 0-1'	< 4.2 ^H	< 0.00074	< 0.0016	< 0.0012	< 0.0013	<0.0048	22,000
SB2 0-1'	< 3.9 ^H	< 0.00065	< 0.0014	< 0.0011	< 0.0012	<0.0044	20,000
SB3 0-1'	< 4.2 ^H	< 0.00074	< 0.0016	< 0.0012	< 0.0013	<0.0048	8,700
NMOCD Site- Specific Criteria	100	10	-	-	-	50	250

mg/kg - milligrams per kilogram

TPH – total petroleum hydrocarbons

BTEX - benzene, toluene, ethylbenzene, xylenes

^H – sample analyzed beyond holding time

-- - regulatory limit not established

- exceeds regulatory limit



Conclusions

Based on Timberwolf's field investigation, the NMOCD site-specific cleanup criteria, and analytical results, the following is concluded:

- The main body of the produced water spill area encompasses approximately 0.47 acres (Figure 4). The release traveled mostly south and east. Jay Management has tilled the majority of the spill area.
- Concentrations of TPH were below laboratory detection limits in all samples. NMOCD site-specific cleanup criteria was not exceeded.
- Concentrations of benzene and Total BTEX were below laboratory detection limits in all samples. NMOCD site-specific cleanup criteria was not exceeded.
- Concentrations of chlorides exceeded the NMOCD site-specific cleanup criteria in each of the three soil samples.
 - ➤ SB1 0-1' and SB2 0-1' contained the highest concentrations of chloride at 22,000 milligrams per kilogram (mg/kg) and 20,000 mg/kg, respectively.
 - > SB3 0-1' had the lowest chloride concentration at 8,700 mg/kg.
- The only constituent of concern for the Site is chloride.

Site Characterization Work Plan

The following scope of work will be conducted within 60 days from the date of this work plan to characterize impacts at the Site:

Task 1: Site Characterization

The goals of the site characterization activities are as follows:

- Delineate the horizontal and vertical extents of hydrocarbon and salinity impacts in
- Assess soil characteristics to evaluate potential remedial options
- Verify that neither groundwater nor surface water have been affected by the release.

Soil samples will be collected from approximately eight sampling locations to obtain horizontal and vertical delineation. Also, additional samples will be collected from the three initial sample locations (i.e., SB1 through SB3) to evaluate the vertical extent of impacts within the release area. A minimum of 11 soil samples will be analyzed at an environmental laboratory for chlorides by Method 300.

Due to the surface soil characteristics, soil samples will be obtained from test pits installed with an excavator or backhoe. Each test pit will be logged to describe soil lithology and continuously field screened for volatile organic compounds (VOCs) with a photoionization detector (PID). In addition, certain samples will be field screened for salinity with an electrical conductivity meter to assist with sampling selection for delineation.

In addition, a field reconnaissance will be performed to verify that no water wells or surface water bodies are located within a 1,000 ft radius of the release area.



Task 2: Site Characterization Report and Remedial Action Plan

Upon completion of Task 1, a Site Characterization Report and Remedial Action Plan will be submitted to the NMOCD. The report will document investigation methodology and results with associated figures, tables, and laboratory data. Based on site characterization results, the document will include the selected remedial approach to address soil impacts.

If you have any questions regarding this work plan, please call us at 979-324-2139.

Sincerely,

Timberwolf Environmental, LLC

Ryan S. Mersmann, P.G., CPSS Vice President of Operations

Jim Foster President

Attachments: Figures

Form C-141

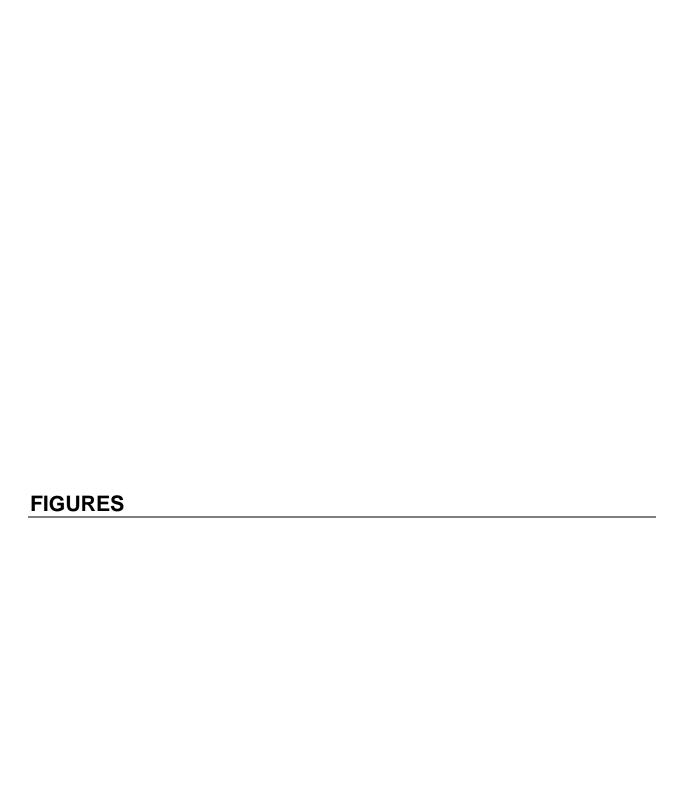
Photographic Log

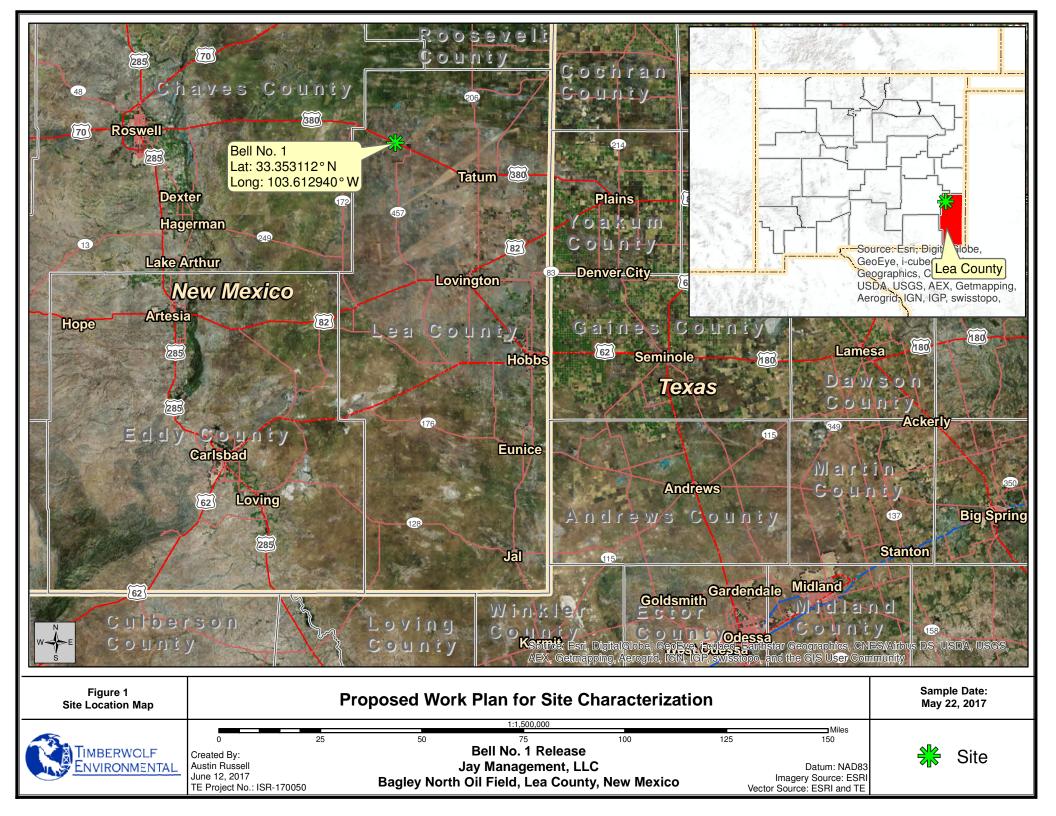
Laboratory Report and Chain-of-Custody Documents

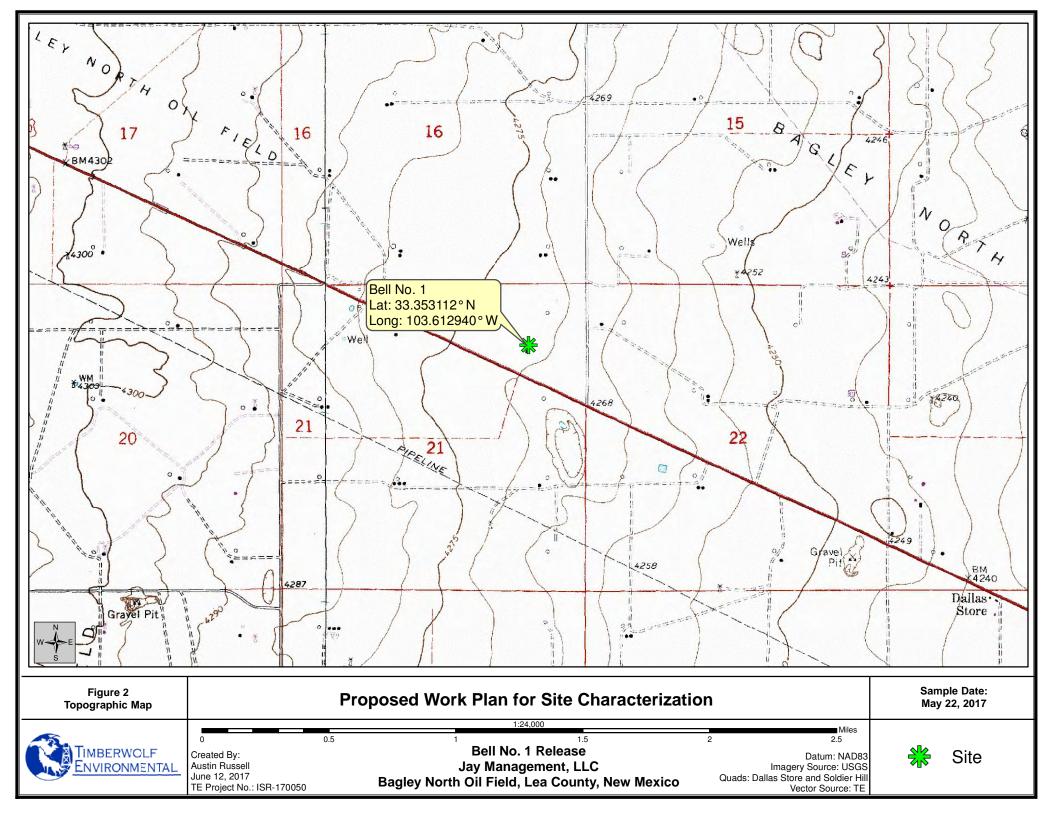
Cc:

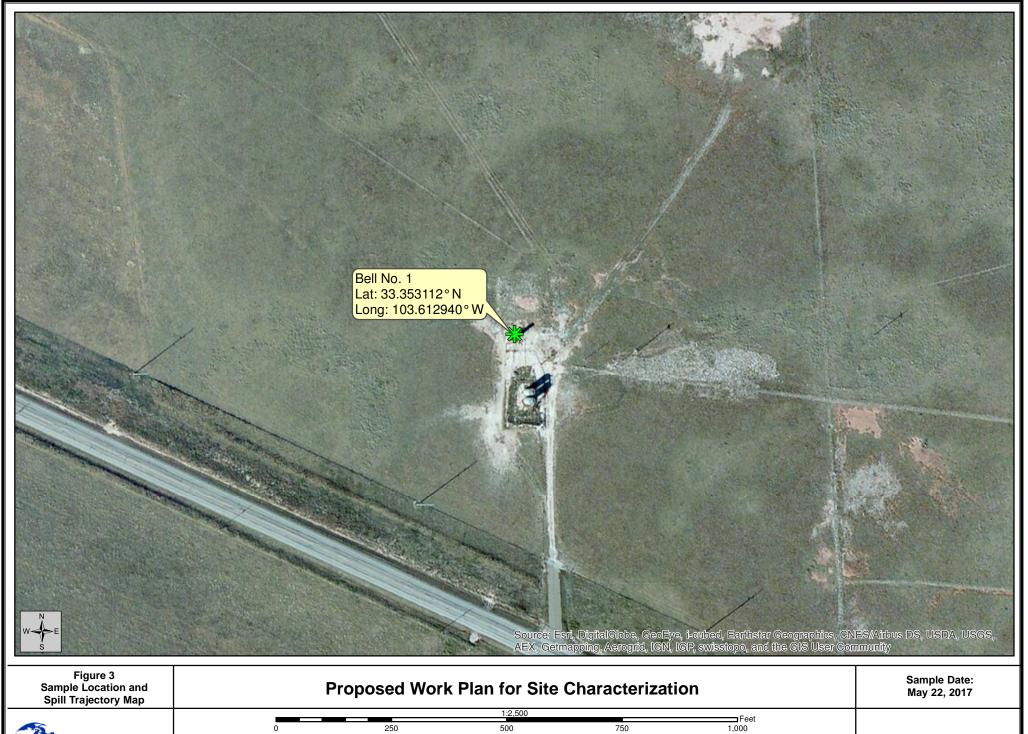
Amir Sanker, Jay Management











Timberwolf Created By: Environmental June 12, 2017 TE Project No.: ISR-170050

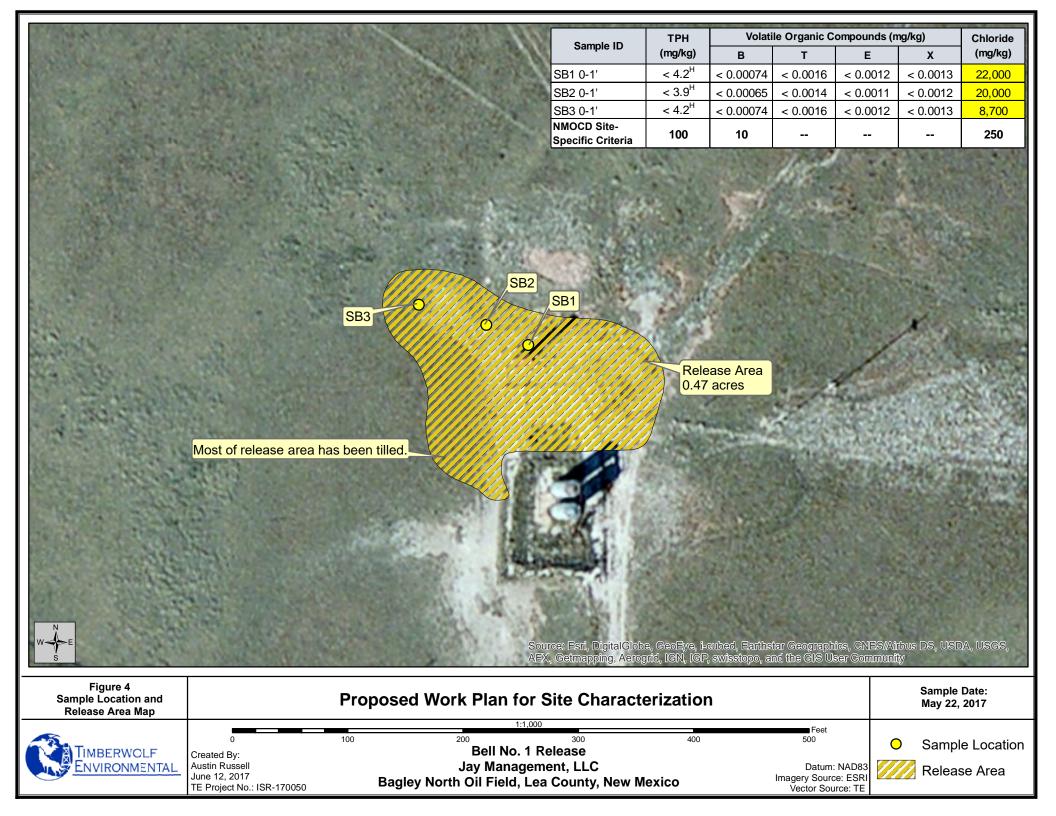
Austin Russell

Bell No. 1 Release Jay Management, LLC **Bagley North Oil Field, Lea County, New Mexico**

Datum: NAD83 Imagery Source: ESRI Vector Source: TE



Site





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

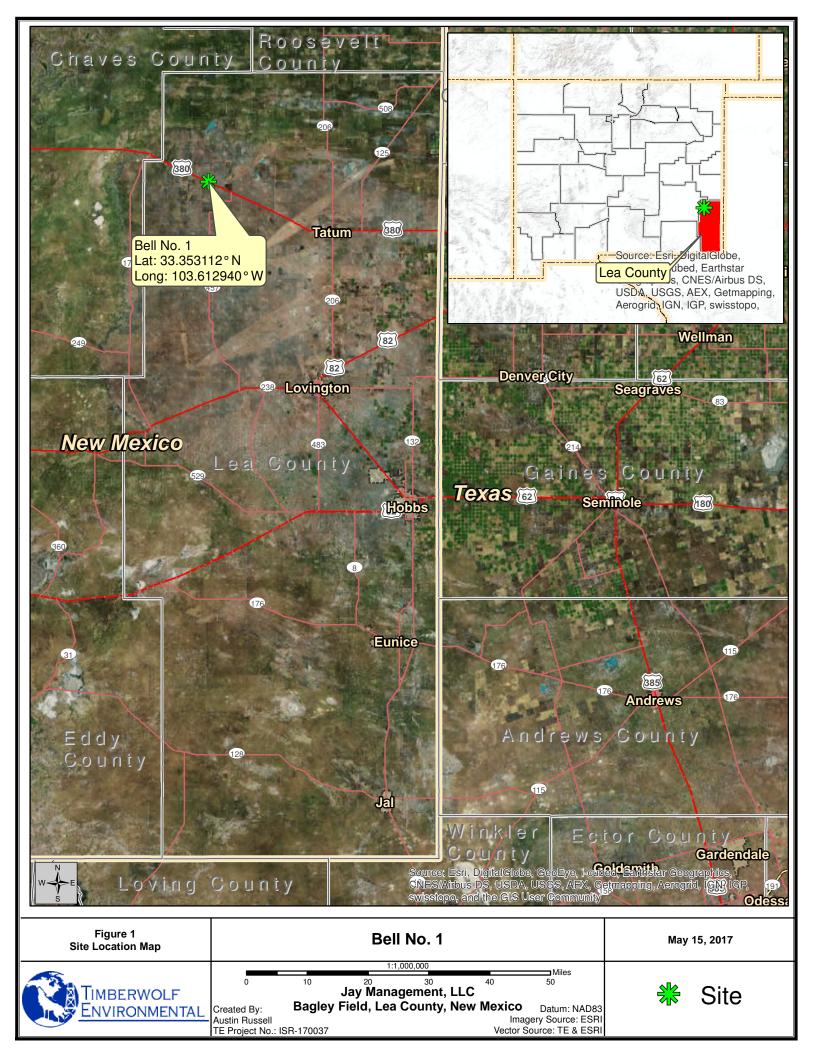
State of New Mexico Energy Minerals and Natural Resources

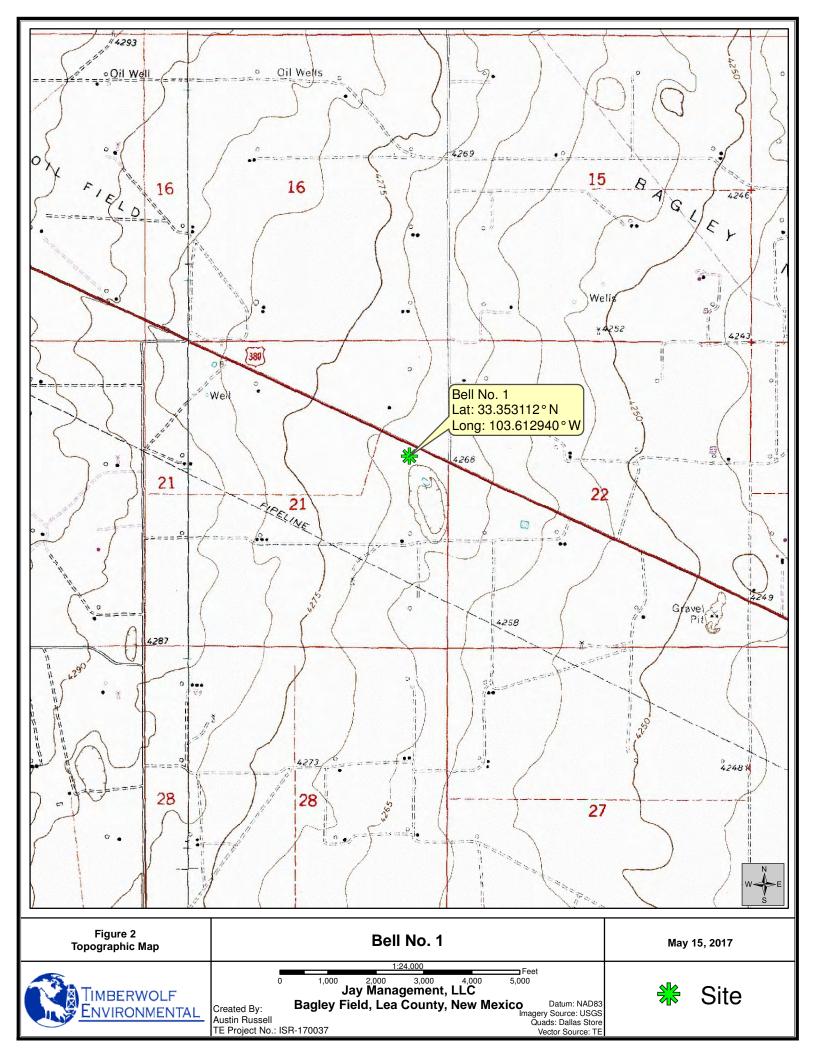
Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

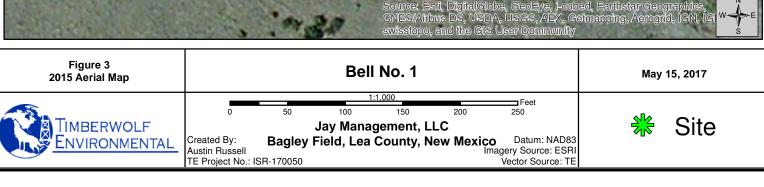
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

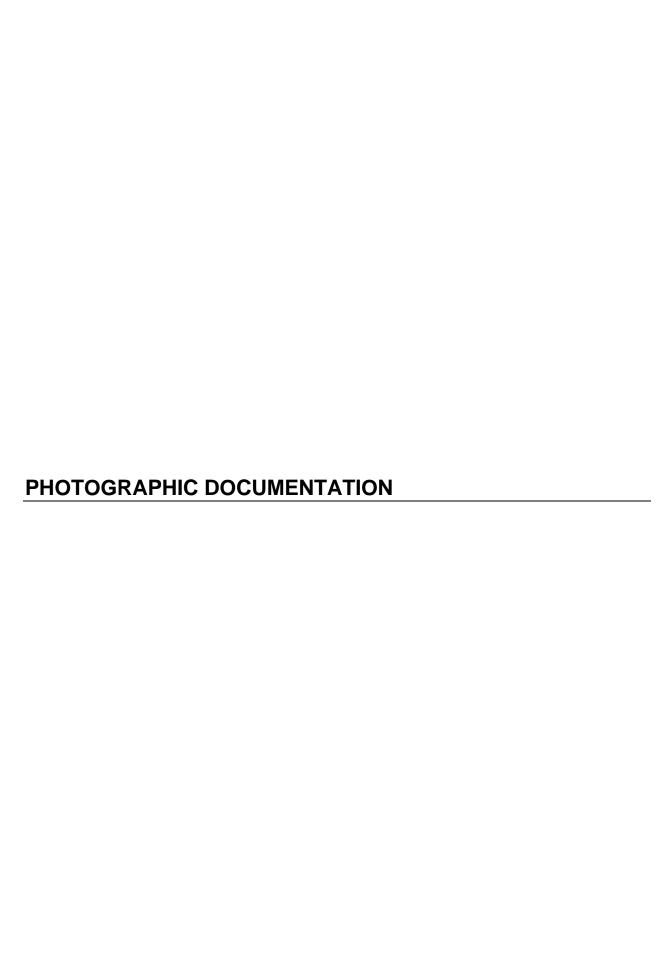
			Rele	ease Notific	cation	and Co	rrective A	ction				
						OPERA'	ГOR	⊠ Ir	itial Report		Final Re	
Name of Co	mpany: Ja	ay Managem	ent Comp	oany	(Contact: Jin	Foster					
Address: 24	25 W Loo	p South, Ste	. 810, Ho	ouston, Texas 77	7027	7 Telephone No.: 979-324-2139						
Facility Na	ne: Bell N	0. 1]]	Facility Typ	e: Well pad					
Surface Ow	ner: State	of New Mex	cico	Mineral (Owner: S	State of Nev	v Mexico	API	No.: 30-025-	-21391		
				LOCA	ATION	OF RE	LEASE					
Unit Letter H	Section 21	Township 11S	Range 33E	Feet from the 1,980		South Line	Feet from the 660	East/West Lin East	e County Lea			
			atitude	33.353112° N	L	ongitude_1	03.612940° W	NAD83				
				NAT	TURE	OF REL						
Type of Rele							Release: 5 bbls		e Recovered:			
source of Re	tease: Polyl	line between l	neater trea	ter and trunkline			lour of Occurrence	Date a	nd Hour of Di	scovery	У	
Was Immedi	ate Notice (Yes 🗵	No □ Not R	equired	If YES, To	Whom?					
By Whom?						Date and F	lour					
Was a Water	course Read		Yes 🗵] No		If YES, Vo	lume Impacting t	the Watercourse				
Describe Are	a Affected	and Cleanup	Action Tal	e heater treater cen.* treater. Impact								
egulations a public health should their or or the environ	I operators or the envi- operations hament. In a	are required to ronment. The nave failed to	o report and acceptant adequately OCD accept	is true and comp nd/or file certain r ce of a C-141 report investigate and r tance of a C-141	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	tive actions for eport" does not eat to ground wa	releases which relieve the ope tter, surface w	h may e erator o vater, hu	endanger of liability uman healtl	
							OIL CON	SERVATIO	N DIVISIO	ON		
Signature:	>	1- ho	·									
Printed Name	: Jim Fost	er			F	Approved by	Environmental S	pecialist:				
itle: Con	sultant				1	Approval Dat	e:	Expiration	on Date:			
E-mail Addre	ess: jim@te	amtimberwol	f.com		(Conditions of	Approval:		Attached			
	/16/17 tional Shee	Pho ets If Necess	one: 979-3 ary	324-2139					2 statement			













PHOTOGRAPHIC LOG

Project No.:	ISR-170050	Client:	Jay Management
Project Name:	Bell No. 1 Facility Release	Site Location:	Lea County, New Mexico
Task Description:	Initial Site Assessment	Date:	05/22/17

Photo No.:

1

Direction: SW

Comments:

View of most heavily impacted area around at the Bell No. 1 heater treater and polyline. Note SB1 sample location.



Photo No.:

Direction:

SE

Comments:

View of tilled impacted soils within the spill area. Note SB1 and SB2 sample locations.





PHOTOGRAPHIC LOG

Project No.:	ISR-170050	Client:	Jay Management
Project Name:	Bell No. 1 Facility Release	Site Location:	Lea County, New Mexico
Task Description:	Initial Site Assessment	Date:	05/22/17

Photo No.:

3

Direction: NW

Comments:

View of the edge of tilled impacted soils within the spill area. Note SB3 sample location.



Photo No.:

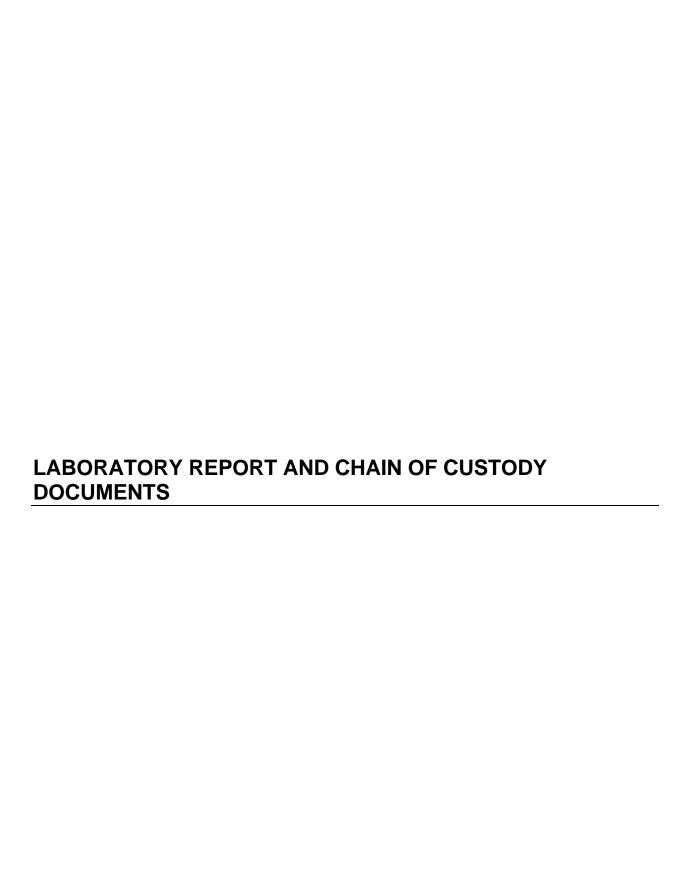
Direction:

S

Comments:

View of tank battery and the edge of tilled impacted soils within the spill area.







THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street Houston, TX 77040 Tel: (713)690-4444

TestAmerica Job ID: 600-148746-1 Client Project/Site: Bell No.1 - 170050

For:

Timberwolf Environmental LLC 1920 W. Vill Maria Suite 305-2 Box 205 Bryan, Texas 77807

Attn: James Foster

Donnie Comba

Authorized for release by: 6/7/2017 4:02:43 PM Donnie Combs, Project Management Assistant I (713)690-4444 donnie.combs@testamericainc.com

Designee for

Dean Joiner, Project Manager II (713)690-4444 dean.joiner@testamericainc.com

-----LINKS -----

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Total Access

Have a Question?



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Job ID: 600-148746-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative 600-148746-1

Comments

No additional comments.

Receipt

The samples were received on 5/26/2017 12:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

Receipt Exceptions

The following samples was received outside of holding time: SB1 0-1' (600-148746-1), SB2 0-1' (600-148746-2) and SB3 0-1' (600-148746-3). Out of hold for TPH freezing

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method(s) TX 1005: The following sample(s) was analyzed outside of analytical holding time. The samples were not frozen within the 48 hours required by the method.

SB1 0-1' (600-148746-1), SB2 0-1' (600-148746-2) and SB3 0-1' (600-148746-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Industrial Hygiene

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

5

6

7

0

10

4.0

13

4 -

TestAmerica Houston 6/7/2017

Method Summary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
9056	Anions, Ion Chromatography	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

3

4

7

8

9

4 4

12

Sample Summary

Matrix

Solid

Solid

Solid

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

Client Sample ID

SB1 0-1'

SB2 0-1'

SB3 0-1'

Lab Sample ID

600-148746-1

600-148746-2

600-148746-3

TestAmerica Job ID: 600-148746-1

Collected	Received
05/22/17 15:10	05/26/17 12:53
05/22/17 15:15	05/26/17 12:53

05/22/17 15:20

3

4

5

05/26/17 12:53

9

4 4

12

A A

TestAmerica Job ID: 600-148746-1

Client: Timberwolf Environmental LLC

Project/Site: Bell No.1 - 170050

Lab Sample ID: 600-148746-1

Client Sample ID: SB1 0-1' Date Collected: 05/22/17 15:10 Matrix: Solid Date Received: 05/26/17 12:53 Percent Solids: 90.2

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00074	U	0.0059	0.00074	mg/Kg	₩	05/30/17 15:40	05/31/17 03:59	1
Ethylbenzene	0.0012	U	0.0059	0.0012	mg/Kg	₩	05/30/17 15:40	05/31/17 03:59	1
Toluene	0.0016	U	0.0059	0.0016	mg/Kg	₩	05/30/17 15:40	05/31/17 03:59	1
Xylenes, Total	0.0013	U	0.0059	0.0013	mg/Kg	\$	05/30/17 15:40	05/31/17 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130				05/30/17 15:40	05/31/17 03:59	1
Dibromofluoromethane	83		68 - 140				05/30/17 15:40	05/31/17 03:59	1
Toluene-d8 (Surr)	92		50 - 130				05/30/17 15:40	05/31/17 03:59	1
	119		57 - 140				05/30/17 15:40	05/31/17 03:59	1
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte	tal Petroleum Hyd	rocarbon (SDL	Unit	D	05/30/17 15:40 Prepared	05/31/17 03:59 Analyzed	,
4-Bromofluorobenzene Method: TX 1005 - Texas - To	tal Petroleum Hyd	•	GC)	SDL 4.2		D			Dil Fac
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte	tal Petroleum Hyd Result	Qualifier	GC) MQL (Adj)		mg/Kg		Prepared	Analyzed	,
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte C6-C12 >C12-C28	tal Petroleum Hyd Result 4.2 4.5	Qualifier U H	GC) MQL (Adj) 11	4.2 4.5	mg/Kg	<u> </u>	Prepared 05/30/17 14:02	Analyzed 05/31/17 07:51	,
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte C6-C12 >C12-C28	tal Petroleum Hyd Result 4.2 4.5 4.5	Qualifier U H U H	MQL (Adj) 11 11	4.2 4.5 4.5	mg/Kg mg/Kg	- \$	Prepared 05/30/17 14:02 05/30/17 14:02	Analyzed 05/31/17 07:51 05/31/17 07:51	,
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte C6-C12 >C12-C28 >C28-C35	tal Petroleum Hyd Result 4.2 4.5 4.5	Qualifier UH UH UH UH	GC) MQL (Adj) 11 11 11	4.2 4.5 4.5	mg/Kg mg/Kg mg/Kg	* * *	Prepared 05/30/17 14:02 05/30/17 14:02 05/30/17 14:02	Analyzed 05/31/17 07:51 05/31/17 07:51 05/31/17 07:51	Dil Fac 1 1 1
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte C6-C12 >C12-C28 >C28-C35 C6-C35	tal Petroleum Hyd Result 4.2 4.5 4.5 4.2	Qualifier UH UH UH UH	MQL (Adj) 11 11 11 11	4.2 4.5 4.5	mg/Kg mg/Kg mg/Kg	* * *	Prepared 05/30/17 14:02 05/30/17 14:02 05/30/17 14:02 05/30/17 14:02	Analyzed 05/31/17 07:51 05/31/17 07:51 05/31/17 07:51	,
4-Bromofluorobenzene Method: TX 1005 - Texas - To Analyte C6-C12 >C12-C28 >C28-C35 C6-C35 Surrogate	Name	Qualifier U H U H U H U H Qualifier	MQL (Adj) 11 11 11 11 Limits	4.2 4.5 4.5	mg/Kg mg/Kg mg/Kg	* * *	Prepared 05/30/17 14:02 05/30/17 14:02 05/30/17 14:02 05/30/17 14:02 Prepared	Analyzed 05/31/17 07:51 05/31/17 07:51 05/31/17 07:51 05/31/17 07:51 Analyzed	Dil Fac 1 1 1

Chloride 870 120 mg/Kg 06/05/17 17:33 200 22000 General Chemistry

Analysis	Decult	Qualifier	MOI (A 4:)	en.	Unit	_		Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	U	' _	Prepared	Analyzed	DII Fac
Percent Moisture	9.8		1.0	1.0	%				05/26/17 17:27	1
Percent Solids	90.2		1.0	1.0	%				05/26/17 17:27	1

Client Sample ID: SB2 0-1' Lab Sample ID: 600-148746-2 Date Collected: 05/22/17 15:15 **Matrix: Solid** Date Received: 05/26/17 12:53 Percent Solids: 96.3

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00065	U	0.0052	0.00065	mg/Kg	\	05/30/17 15:40	05/31/17 04:24	1
Ethylbenzene	0.0011	U	0.0052	0.0011	mg/Kg	₩	05/30/17 15:40	05/31/17 04:24	1
Toluene	0.0014	U	0.0052	0.0014	mg/Kg	₩	05/30/17 15:40	05/31/17 04:24	1
Xylenes, Total	0.0012	U	0.0052	0.0012	mg/Kg	\$	05/30/17 15:40	05/31/17 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130				05/30/17 15:40	05/31/17 04:24	1
Dibromofluoromethane	86		68 - 140				05/30/17 15:40	05/31/17 04:24	1
Toluene-d8 (Surr)	91		50 - 130				05/30/17 15:40	05/31/17 04:24	1
4-Bromofluorobenzene	117		57 ₋ 140				05/30/17 15:40	05/31/17 04:24	1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)										
	Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	C6-C12	3.9	UH	10	3.9	mg/Kg	*	05/30/17 14:02	05/30/17 23:35	1
	>C12-C28	4.2	UH	10	4.2	mg/Kg	₽	05/30/17 14:02	05/30/17 23:35	1

TestAmerica Houston

Page 6 of 20

Client Sample Results

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

Client Sample ID: SB2 0-1'

Date Collected: 05/22/17 15:15

Date Received: 05/26/17 12:53

Date Received: 05/26/17 12:53

Toluene-d8 (Surr)

o-Terphenyl

4-Bromofluorobenzene

TestAmerica Job ID: 600-148746-1

Lab Sample ID: 600-148746-2

Matrix: Solid

Percent Solids: 96.3

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	4.2	UH	10	4.2	mg/Kg	₩	05/30/17 14:02	05/30/17 23:35	
C6-C35	3.9	UH	10	3.9	mg/Kg	\$	05/30/17 14:02	05/30/17 23:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	113		70 - 130				05/30/17 14:02	05/30/17 23:35	
Method: 9056 - Anions,	Ion Chromatography - S	Soluble							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20000		840	110	mg/Kg			06/05/17 17:53	200

Result Qualifier Analyte MQL (Adj) SDL Unit D Prepared Analyzed Dil Fac 1.0 1.0 05/26/17 17:27 **Percent Moisture** 3.7 **Percent Solids** 1.0 1.0 % 05/26/17 17:27 96.3

Client Sample ID: SB3 0-1'

Date Collected: 05/22/17 15:20

Lab Sample ID: 600-148746-3

Matrix: Solid

Percent Solids: 90.7

05/31/17 04:48

05/31/17 04:48

05/30/17 15:40

05/30/17 15:40

05/30/17 14:02 05/31/17 00:09

Method: 8260B - Volatile Organ	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00074	U	0.0059	0.00074	mg/Kg	<u></u>	05/30/17 15:40	05/31/17 04:48	1
Ethylbenzene	0.0012	U	0.0059	0.0012	mg/Kg	₽	05/30/17 15:40	05/31/17 04:48	1
Toluene	0.0016	U	0.0059	0.0016	mg/Kg	₽	05/30/17 15:40	05/31/17 04:48	1
Xylenes, Total	0.0013	U	0.0059	0.0013	mg/Kg	\$	05/30/17 15:40	05/31/17 04:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130				05/30/17 15:40	05/31/17 04:48	1
Dibromofluoromethane	85		68 - 140				05/30/17 15:40	05/31/17 04:48	1

50 - 130

57 - 140

91

117

100

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.2	UH	11	4.2	mg/Kg	₩	05/30/17 14:02	05/31/17 00:09	1
>C12-C28	4.5	UH	11	4.5	mg/Kg	₽	05/30/17 14:02	05/31/17 00:09	1
>C28-C35	4.5	UH	11	4.5	mg/Kg	≎	05/30/17 14:02	05/31/17 00:09	1
C6-C35	4.2	UH	11	4.2	mg/Kg	₩	05/30/17 14:02	05/31/17 00:09	1

70 - 130

Method: 9056 - Anions, Ion C	hromatography - S	Soluble							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		440	59	mg/Kg	‡		06/05/17 18:13	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		1.0	1.0	%			05/26/17 17:27	1
Percent Solids	90.7		1.0	1.0	%			05/26/17 17:27	1

TestAmerica Houston

Definitions/Glossary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

H Sample was prepped or analyzed beyond the specified holding time

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TestAmerica Houston

Surrogate Summary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

				Percent Sur	rrogate Rec
		12DCE	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-148746-1	SB1 0-1'	93	83	92	119
600-148746-2	SB2 0-1'	92	86	91	117
600-148746-3	SB3 0-1'	93	85	91	117
LCS 600-214018/3	Lab Control Sample	102	98	99	123
LCSD 600-214018/4	Lab Control Sample Dup	94	94	99	127
MB 600-214018/6	Method Blank	105	86	95	124

12DCE = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		ОТРН	
Lab Sample ID	Client Sample ID	(70-130)	
600-148746-1	SB1 0-1'	100	
600-148746-2	SB2 0-1'	113	
600-148746-3	SB3 0-1'	100	
LCS 600-213984/2-A	Lab Control Sample	97	
LCSD 600-213984/3-A	Lab Control Sample Dup	120	
MB 600-213984/1-A	Method Blank	106	
Surrogate Legend			
OTPH = o-Terphenyl			

Page 9 of 20

TestAmerica Job ID: 600-148746-1

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

MR MR

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-214018/6

Matrix: Solid

Analysis Batch: 214018

Client Sam	ple ID	: Meth	nod Blan	k
	Prep	Type:	Total/N	4

	11.12								
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00063	U	0.0050	0.00063	mg/Kg			05/30/17 23:03	1
Ethylbenzene	0.0010	U	0.0050	0.0010	mg/Kg			05/30/17 23:03	1
Toluene	0.0014	U	0.0050	0.0014	mg/Kg			05/30/17 23:03	1
Xylenes, Total	0.0011	U	0.0050	0.0011	mg/Kg			05/30/17 23:03	1

MB MB Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 1,2-Dichloroethane-d4 (Surr) 105 61 - 130 05/30/17 23:03 Dibromofluoromethane 68 - 140 05/30/17 23:03 86 Toluene-d8 (Surr) 95 50 - 130 05/30/17 23:03 4-Bromofluorobenzene 57 - 140 05/30/17 23:03 124

Lab Sample ID: LCS 600-214018/3

Matrix: Solid

Analysis Batch: 214018

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.0500 0.0532 106 70 - 131 mg/Kg Ethylbenzene 0.0500 0.0480 mg/Kg 96 66 - 130 Toluene 0.0500 0.0499 100 67 - 130 mg/Kg Xylenes, Total 0.100 0.0931 mg/Kg 93 63 - 130

LCS LCS Surrogate Qualifier Limits %Recovery 1,2-Dichloroethane-d4 (Surr) 102 61 - 130 Dibromofluoromethane 98 68 - 140 Toluene-d8 (Surr) 99 50 - 130 57 - 140 4-Bromofluorobenzene 123

Lab Sample ID: LCSD 600-214018/4

Matrix: Solid

Analysis Batch: 214018

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.0502		mg/Kg		100	70 - 131	6	30
Ethylbenzene	0.0500	0.0503		mg/Kg		101	66 - 130	5	30
Toluene	0.0500	0.0502		mg/Kg		100	67 - 130	1	30
Xylenes, Total	0.100	0.101		mg/Kg		101	63 _ 130	8	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		61 - 130
Dibromofluoromethane	94		68 - 140
Toluene-d8 (Surr)	99		50 - 130
4-Bromofluorobenzene	127		57 ₋ 140

TestAmerica Houston

TestAmerica Job ID: 600-148746-1

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-213984/1-A

Matrix: Solid

Analysis Batch: 213948

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 213984 MD MD

mg/Kg

mg/Kg

	INID	IVID							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.8	U	10	3.8	mg/Kg		05/30/17 10:58	05/30/17 15:30	1
>C12-C28	4.1	U	10	4.1	mg/Kg		05/30/17 10:58	05/30/17 15:30	1
>C28-C35	4.1	U	10	4.1	mg/Kg		05/30/17 10:58	05/30/17 15:30	1
C6-C35	3.8	U	10	3.8	mg/Kg		05/30/17 10:58	05/30/17 15:30	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 05/30/17 10:58 o-Terphenyl 106 05/30/17 15:30

Lab Sample ID: LCS 600-213984/2-A **Client Sample ID: Lab Control Sample**

236

443

Matrix: Solid

>C12-C28

C6-C35

Analysis Batch: 213948							Prep Batch: 213984
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
C6-C12	250	207		mg/Kg		83	75 - 125

250

500

LCS LCS %Recovery Qualifier Surrogate Limits 70 - 130 o-Terphenyl 97

Lab Sample ID: LCSD 600-213984/3-A

Matrix: Solid

Analysis Batch: 213948

Client Sample ID: Lab	Co	ntrol	Sample	Dup
	_	_		

75 _ 125

75 - 125

94

Prep Type: Total/NA Prep Batch: 213984

Prep Type: Total/NA

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit C6-C12 250 228 mg/Kg 91 75 - 125 10 20 >C12-C28 250 248 mg/Kg 99 75 - 125 20 C6-C35 500 476 mg/Kg 95 75 - 125 20

LCSD LCSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 70 - 130 120

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 600-214418/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Analysis Batch: 214382

-	MB	MB							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.53	U	4.0	0.53	mg/Kg			06/05/17 14:46	1

Lab Sample ID: LCS 600-214418/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Analysis Batch: 214362								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	200	185		mg/Kg		93	90 - 110	

TestAmerica Houston

Matrix: Solid

Matrix: Solid

Analysis Ratch: 214382

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	200	185		mg/Kg		93	90 - 110	

Unadjusted Detection Limits

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Prep: 5030B

Analyte	MQL	MDL	Units	Method
Benzene	0.0050	0.00063	mg/Kg	8260B
Ethylbenzene	0.0050	0.0010	mg/Kg	8260B
Toluene	0.0050	0.0014	mg/Kg	8260B
Xylenes, Total	0.0050	0.0011	mg/Kg	8260B

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Prep: TX_1005_S_Prep

Analyte	MQL	MDL	Units	Method
>C12-C28	10	4.1	mg/Kg	TX 1005
>C28-C35	10	4.1	mg/Kg	TX 1005
C6-C12	10	3.8	mg/Kg	TX 1005
C6-C35	10	3.8	mg/Kg	TX 1005

Method: 9056 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units	Method	
Chloride	4.0	0.53	mg/Kg	9056	

General Chemistry

Analyte	MQL	MDL	Units	Method	
Percent Moisture	1.0	1.0	%	Moisture	
Percent Solids	1.0	1.0	%	Moisture	

3

4

6

0

10

13

14

QC Association Summary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

GC/MS VOA

Prep Batch: 214003

ab Sample ID (Client Sample ID	Prep Type	Matrix	Method	Prep Batch
00-148746-1	6B1 0-1'	Total/NA	Solid	5030B	
00-148746-2	SB2 0-1'	Total/NA	Solid	5030B	
00-148746-3	SB3 0-1'	Total/NA	Solid	5030B	

Analysis Batch: 214018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Total/NA	Solid	8260B	214003
600-148746-2	SB2 0-1'	Total/NA	Solid	8260B	214003
600-148746-3	SB3 0-1'	Total/NA	Solid	8260B	214003
MB 600-214018/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-214018/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-214018/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC Semi VOA

Analysis Batch: 213948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-213984/1-A	Method Blank	Total/NA	Solid	TX 1005	213984
LCS 600-213984/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	213984
LCSD 600-213984/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	213984

Analysis Batch: 213950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Total/NA	Solid	TX 1005	213984
600-148746-2	SB2 0-1'	Total/NA	Solid	TX 1005	213984
600-148746-3	SB3 0-1'	Total/NA	Solid	TX 1005	213984

Pre Prep Batch: 213982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Total/NA	Solid	Frozen	
				Preserve	
600-148746-2	SB2 0-1'	Total/NA	Solid	Frozen	
				Preserve	
600-148746-3	SB3 0-1'	Total/NA	Solid	Frozen	
				Preserve	

Prep Batch: 213984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148746-2	SB2 0-1'	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148746-3	SB3 0-1'	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
MB 600-213984/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre	
				р	
LCS 600-213984/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre	
				р	
LCSD 600-213984/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre	
				p	

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QC Association Summary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

HPLC/IC

Analysis Batch: 214382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Soluble	Solid	9056	214418
600-148746-2	SB2 0-1'	Soluble	Solid	9056	214418
600-148746-3	SB3 0-1'	Soluble	Solid	9056	214418
MB 600-214418/1-A	Method Blank	Soluble	Solid	9056	214418
LCS 600-214418/2-A	Lab Control Sample	Soluble	Solid	9056	214418

Leach Batch: 214418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Soluble	Solid	DI Leach	
600-148746-2	SB2 0-1'	Soluble	Solid	DI Leach	
600-148746-3	SB3 0-1'	Soluble	Solid	DI Leach	
MB 600-214418/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-214418/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

General Chemistry

Analysis Batch: 213925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148746-1	SB1 0-1'	Total/NA	Solid	Moisture	
600-148746-2	SB2 0-1'	Total/NA	Solid	Moisture	
600-148746-3	SB3 0-1'	Total/NA	Solid	Moisture	

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Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

Lab Sample ID: 600-148746-1

Matrix: Solid

Client Sample ID: SB1 0-1' Date Collected: 05/22/17 15:10 Date Received: 05/26/17 12:53

Date Received: 05/26/17 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			213925	05/26/17 17:27	B1K	TAL HOU

Client Sample ID: SB1 0-1' Lab Sample ID: 600-148746-1 Date Collected: 05/22/17 15:10

Matrix: Solid

Percent Solids: 90.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.69 g	5 mL	214003	05/30/17 15:40	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 03:59	WS1	TAL HOU
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			10.07 g	10.00 mL	213984	05/30/17 14:02	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1			213950	05/31/17 07:51	RJV	TAL HOU
Soluble	Leach	DI Leach			5.07 g	50 mL	214418	06/05/17 15:27	DAW	TAL HOU
Soluble	Analysis	9056		200			214382	06/05/17 17:33	DAW	TAL HOU

Client Sample ID: SB2 0-1' Lab Sample ID: 600-148746-2

Date Collected: 05/22/17 15:15 **Matrix: Solid**

Date Received: 05/26/17 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			213925	05/26/17 17:27	B1K	TAL HOU

Client Sample ID: SB2 0-1' Lab Sample ID: 600-148746-2

Date Collected: 05/22/17 15:15

Matrix: Solid Percent Solids: 96.3 Date Received: 05/26/17 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	214003	05/30/17 15:40	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 04:24	WS1	TAL HOU
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10.00 mL	213984	05/30/17 14:02	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1			213950	05/30/17 23:35	RJV	TAL HOU
Soluble	Leach	DI Leach			4.96 g	50 mL	214418	06/05/17 15:27	DAW	TAL HOU
Soluble	Analysis	9056		200			214382	06/05/17 17:53	DAW	TAL HOU

Client Sample ID: SB3 0-1' Lab Sample ID: 600-148746-3

Date Collected: 05/22/17 15:20 Date Received: 05/26/17 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			213925	05/26/17 17:27	B1K	TAL HOU

TestAmerica Houston

Matrix: Solid

Lab Chronicle

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Lab Sample ID: 600-148746-3

Matrix: Solid

Percent Solids: 90.7

Client Sample ID: SB3 0-1'
Date Collected: 05/22/17 15:20
Date Received: 05/26/17 12:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.69 g	5 mL	214003	05/30/17 15:40	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 04:48	WS1	TAL HOU
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10.00 mL	213984	05/30/17 14:02	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1			213950	05/31/17 00:09	RJV	TAL HOU
Soluble	Leach	DI Leach			5.02 g	50 mL	214418	06/05/17 15:27	DAW	TAL HOU
Soluble	Analysis	9056		100			214382	06/05/17 18:13	DAW	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Accreditation/Certification Summary

Client: Timberwolf Environmental LLC Project/Site: Bell No.1 - 170050

TestAmerica Job ID: 600-148746-1

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		EPA Region	Identification Number	Expiration Date	
Texas	NELAP		6	T104704223-17-21	10-31-17	
The following analytes Analysis Method	are included in this report, bu Prep Method	it accreditation/certifica	tion is not offered by th Analyt			
			,			
Moisture		Solid	Perce	nt Moisture		

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Special Instructions/ Conditions of Receipt 100 1630 (A fee may be assessed if samples are retained longer than 1 month) of Chain of Custody Number 5-23-17 5-20-M TestAmerica THE LEADER IN ENVIRONMENTAL TESTING 05/23/17 Lab Number Analysis (Attach list if more space is needed) Months RP 5-23-17 × ☐ Archive For HOL × × Telephone Number (Area Code)/Fax Number 5.1 IRH7 6.0 Disposal By Lab | QC Requirements (Specify) \DANZ HOBN Dean Joiner Containers & Preservatives HOEN IOH Lab Contact EONH No #SSO4 832 -808 -4049 Site Contact Lab Co Drinking Water? Yes □ ☐ Unknown ☐ Return To Client Temperature on Receipt 630 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy Sample Disposal Down Stenderd Carrier/Waybill Number Matrix Sed. Project Manager enoenby 1/82/20 Sampler ID 5/25/1) TIA 1520 1515 Time 1510 ☐ 21 Days 71122117 77807 Poison B Date 1920 W. Villa Maria Ste 305-5 ☐ 14 Days (Containers for each sample may be combined on one line) X Skin Irritant I imberwelt Environante Sample I.D. No. and Description Bell 201 - 170050 Contract/Purchase Order/Quote No. ☐ 7 Days ☐ Flammable Bry C. M Project Name and Location (State) Custody Record ☐ 48 Hgurs Possible Hazard Identification Turn Around Time Required 1-0 00 2. Relinquished By 1. Relinquished By 3. Relinquished By Chain of Non-Hazard TAL-4124-280 (0508) 24 Hours Comments 582 581 583

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Sample Receipt Checklist	THE LEADER IN ENVIRONMENTAL TESTIF		
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Rev. 3; 07/01/2014

Login Sample Receipt Checklist

Client: Timberwolf Environmental LLC Job Number: 600-148746-1

Login Number: 148746 List Source: TestAmerica Houston

List Number: 1

Creator: Crafton, Tommie S

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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