



01761409

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

RECEIVED

JUN 30 2014

COGCC

OGCC Employee: _____

Spill Complaint

Inspection NOAV

Tracking No: _____

Waste Management Plan _____

FORM 27 Rev 6/99

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

- Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Waste Management Plan

GENERAL INFORMATION

OGCC Operator Number: 7800	Contact Name and Telephone
Name of Operator: Beren Corporation	Name: Rodney Reynolds
Address: 2020 North Bramblewood Street	No: (316) 337-8340
City: Wichita State: KS Zip: 67206	Fax: (316) 681-4740
API/Facility No: _____	County: Weld
Facility Name: Gerry Pit Complex	Facility Number: 100578, 100579
Well Name: _____	Well Number: _____
Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec. 30 T12N R56W 6 PM	Latitude: 40.979043 Longitude: -103.671282

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Crude oil, Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. Surface water adjacent to site

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Pasture

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Bankard Loamy Fine Sand, 0-3% slope, Eckley-Dix-Blakeland, 6-20%

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	30' x 40' (Tank Battery)	Observation, Sampling and laboratory analysis
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	40' x 40' (Oil Skim Pit)	Observation, Sampling and laboratory analysis
<input type="checkbox"/> Surface water	40' x 40' (Produced Water pit)	Observation, Sampling and laboratory analysis

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Not Applicable

Describe how source is to be removed:

See attached report.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Approximately 8,000 cubic yards of impacted soil was excavated and stockpiled onsite. Beren is requesting permission to landfarm soil as a remedial strategy.

Submit Page 2 with Page 1.

NOT APPROVED

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109



Tracking Number: _____
 Name of Operator: Beren Corporation
 OGCC Operator No: 7800
 Received Date: _____
 Well Name & No: _____
 Facility Name & No.: Gerry Complex

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
 Groundwater was not encountered during excavation and sampling activities.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.
 The excavations will be backfilled with table 910-1 compliant landfarmed soil. The ground surface will be contoured to match the existing grade. Upon approval to backfill, a plan for reclamation will be submitted to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.
 Is further site investigation required? Y N If yes, describe:
 Analytical results for the oil skim pit, produced water pit, heater treater, and tank battery excavation sidewalls and bottoms indicate benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH)-gasoline range organics, and TPH-diesel range organics were in compliance with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels.

 As the oil skim pit, produced water pit, and soils associated with the tank battery and heater treater have been remediated to meet cleanup levels specified in COGCC Table 910-1, Beren is requesting authorization to begin landfarming application. See attached report for more details.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
 Approximately 8,000 cubic yards of impacted soil was excavated and stockpiled onsite. Beren is requesting permission to landfarm soil as a remedial strategy.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>5/22/2014</u>	Date Site Investigation Completed: <u>6/6/2014</u>	Remediation Plan Submitted: <u>NA</u>
Remediation Start Date: <u>5/22/2014</u>	Anticipated Completion Date: <u>NA</u>	Actual Completion Date: <u>6/6/2014</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
 Print Name: Rodney Reynolds
 Signed: [Signature] Title: Division Engineer Date: 6/27/14

OGCC Approved: _____ Title: _____ Date: _____



June 27, 2014

Mr. John Axelson
Northeast Region Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Beren Corporation
Gerry Facility Closure and Waste Management Plan
Facility ID: 100578, 100579
SESE Sec. 30 T12N R56W 6th Principal Meridian
Weld County, Colorado**

Dear Mr. Axelson:

LT Environmental, Inc. (LTE), under the direction of Beren Corporation (Beren), conducted environmental remediation and sampling activities following the identification of petroleum hydrocarbon impacted soil during facility closure activities at the Gerry Pit Complex (Site). The Site is located 1.4 miles northeast of the intersection of County Road 71 and County Road 132 in Weld County, Colorado (Figure 1).

On May 22, 2014, LTE personnel were present for excavation and investigation of the heater treater and on June 5, 2014 LTE personnel were present for the excavation and investigation of the skim pit, produced water pit, and tank battery excavation sidewalls and bottom at the Site. Composite soil samples were collected from the oil skim pit sidewalls (OSP-SW01 through –SW04) and skim pit bottom (OSP-FS01); produced water pit sidewalls (PWP-SW01 through –SW04) and produced water pit bottom (PWP-FS01); heater treater excavation bottom (HT-BT) and tank battery excavation sidewalls (TB-SW01 through –SW04) and tank battery excavation bottom (TB-FS01) as illustrated in Figure 2. Soil samples were submitted to Origins Laboratory, Inc. (Origins) of Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (EPA) Method 8260B, TPH-diesel range organics (DRO) by EPA Modified Method 8015, and RCRA Metals by EPA Method SW-846. Samples collected from shallower than 3 feet below ground surface were also analyzed for Sodium Absorption Ratio, pH, and Electrical Conductivity.

Approximately 8,000 cubic yards of impacted soil was removed from the site and stockpiled onsite. An additional 600 yards of impacted soil was added to the stockpile from the excavation conducted at the Moyer #16-30 release from the produced water pit (Remediation Project #7985). Beren proposes landfarming these soils onsite as a viable method of reducing hydrocarbon concentrations in the stockpiles and reusing the soil as backfill material once they are compliant with COGCC Table 910-1 standards.



Soil analytical results from the initial site investigation sampling indicated that Arsenic was the only constituent above the COGCC Table 910-1 standard but were within the typical background concentrations according to data from the USGS. All of the other sidewall samples and bottom samples from all excavations were below the Colorado Oil and Gas Conservation Commission (COGCC) Concentration Levels for all of the analyzed constituents.

Waste Management, Soil Treatment, and Confirmation Sampling

LTE has determined that on-site landfarming of the petroleum hydrocarbon-impacted soil will be the most efficient and effective remediation plan for the Site. Landfarming will occur in the former battery location to the west of the open pits (Figure 3). Beren contractors will remove a portion of the soil from the stockpiles and spread the soil out across the flat area next to the pits. Beren contractors will be prepared to use other amendments such as fertilizer to encourage biological degradation if it is deemed necessary. After the soil is thoroughly mixed, Beren contractors will spread the soil out on three landfarm cells at a maximum thickness of 12 to 18 inches. Once the soil is spread, Beren contractors will leave the soil to attenuate in the sun. The soil will be periodically tilled with a front-end loader to keep the soil oxygenated and encourage natural attenuation. Stormwater controls such as a ditch and berm will be installed around the perimeter of the disturbed area to ensure sediment from the landfarming activities are kept onsite and runoff does not migrate onto the surrounding grasslands.

Confirmation soil sampling will take place periodically to establish progress and determine when soil is compliant with the COGCC Table 910-1 Concentration Levels. LTE will collect composite samples across each landfarm cell to characterize hydrocarbon remediation progress. The composite samples will consist of five to six soil aliquots depending on the size of the landfarm cell. Figure 3 depicts the locations of the landfarm cells for composite samples C01 through C03. LTE will submit one composite sample for each landfarm cell during each sampling event. Confirmation soil samples will be submitted to Summit for analysis of BTEX, TPH-GRO, and TPH-DRO. Once soil from each landfarm cell has been confirmed as compliant through confirmation sampling, the soil from that cell will be placed into the open pits at the Site. A new batch of stockpiled soil will be loaded into the cell and mixed before it is laid out and the process will begin again. LTE will prepare a semi-annual report to update the COGCC on landfarming and soil disposal progress. This progress report will be submitted with a Form 27.

Landfarming will initially take place west of the Oil Skim Pit and Produced Water Pit as depicted in Figure 3. This will allow for landfarming of approximately 900 cubic yards of soil (300 cubic yards in each cell). However, due to the large volume of soil that needs to be remediated, Beren will enlarge landfarming area when possible. Once enough compliant soil has been generated through the landfarming process to backfill the Oil Skim Pit and eventually the Produced Water Pit to grade, landfarming will then begin on top of the backfilled pit at this location in an attempt to expedite the overall remediation process (Figure 3). This will increase the landfarming remediation volume by another 900 cubic yards (600 cubic yards in each cell). Once all the impacted soil has been remediated, Beren contractors will remove the surface soil



under the previous stockpiles and both landfarming areas to ensure only compliant soil remains. Beren will then backfill all pits to grade and re-seed the area as part of the final site closure and reclamation activities.

Conclusions and Recommendations

As soil in the oil skim pit, produced water pit, heater treater and tank battery have now been remediated to achieve COGCC cleanup goals, Beren is requesting authorization to begin preparing the area to be landfarmed. Upon approval from the COGCC, Beren will submit a land owner access agreement as deemed necessary.

Please call LTE at 303-433-9788 if you have any questions or comments regarding this report.

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Eric Lang', is written over a light gray horizontal line.

Eric Lang, P.G.
Project Geologist

Attachments:

- Figure 1 - Site Location Map
- Figure 2 - Site Map
- Figure 3 – Landfarming Site Map
- Table 1 - Soil Analytical Results
- Attachment 1 - Laboratory Analytical Reports
- Attachment 2 – Waste Manifests

FIGURES



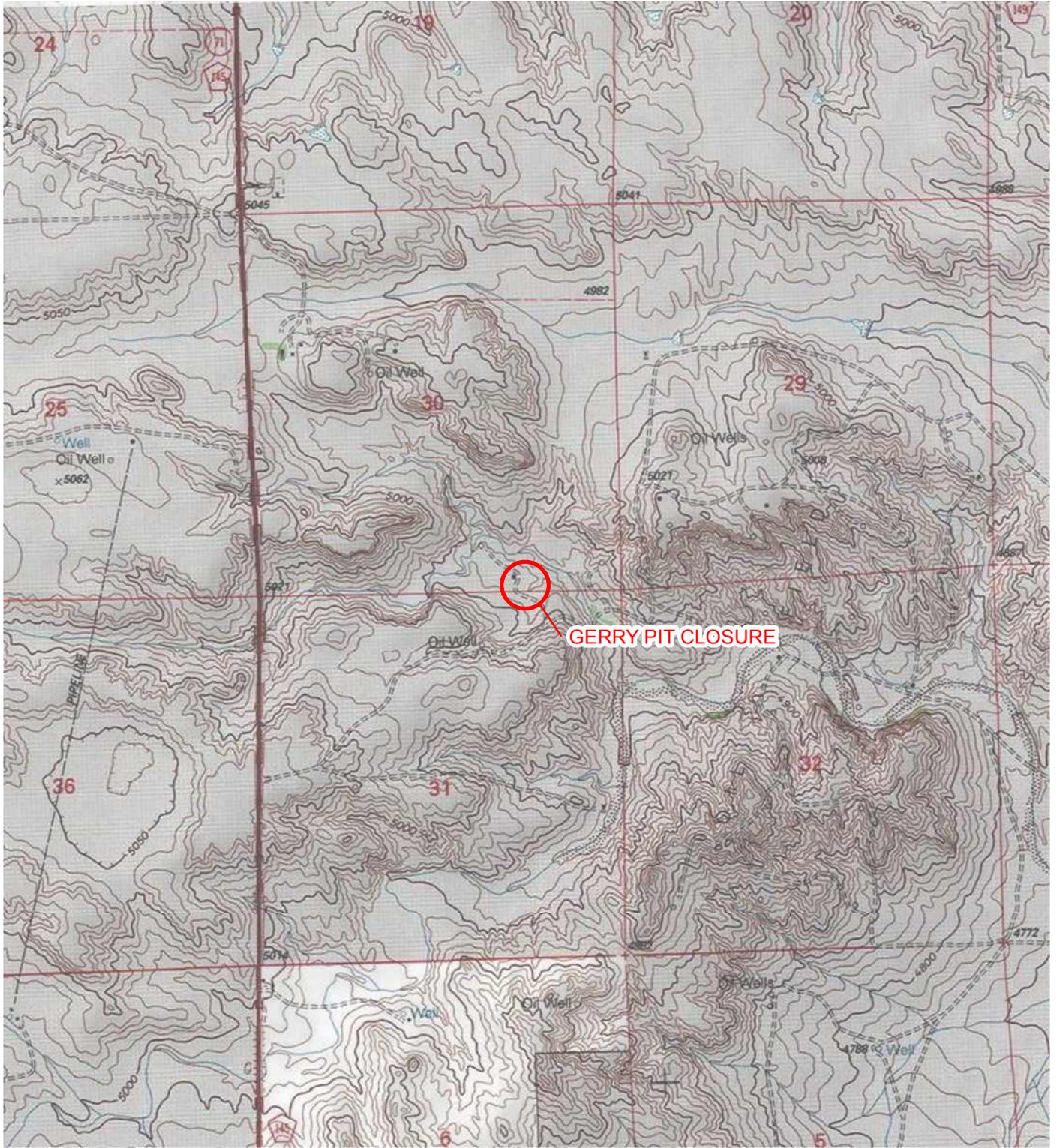


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

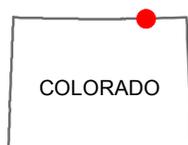
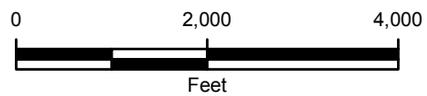


FIGURE 1
SITE LOCATION MAP
GERRY PIT CLOSURE
WELD COUNTY, COLORADO



BEREN CORPORATION

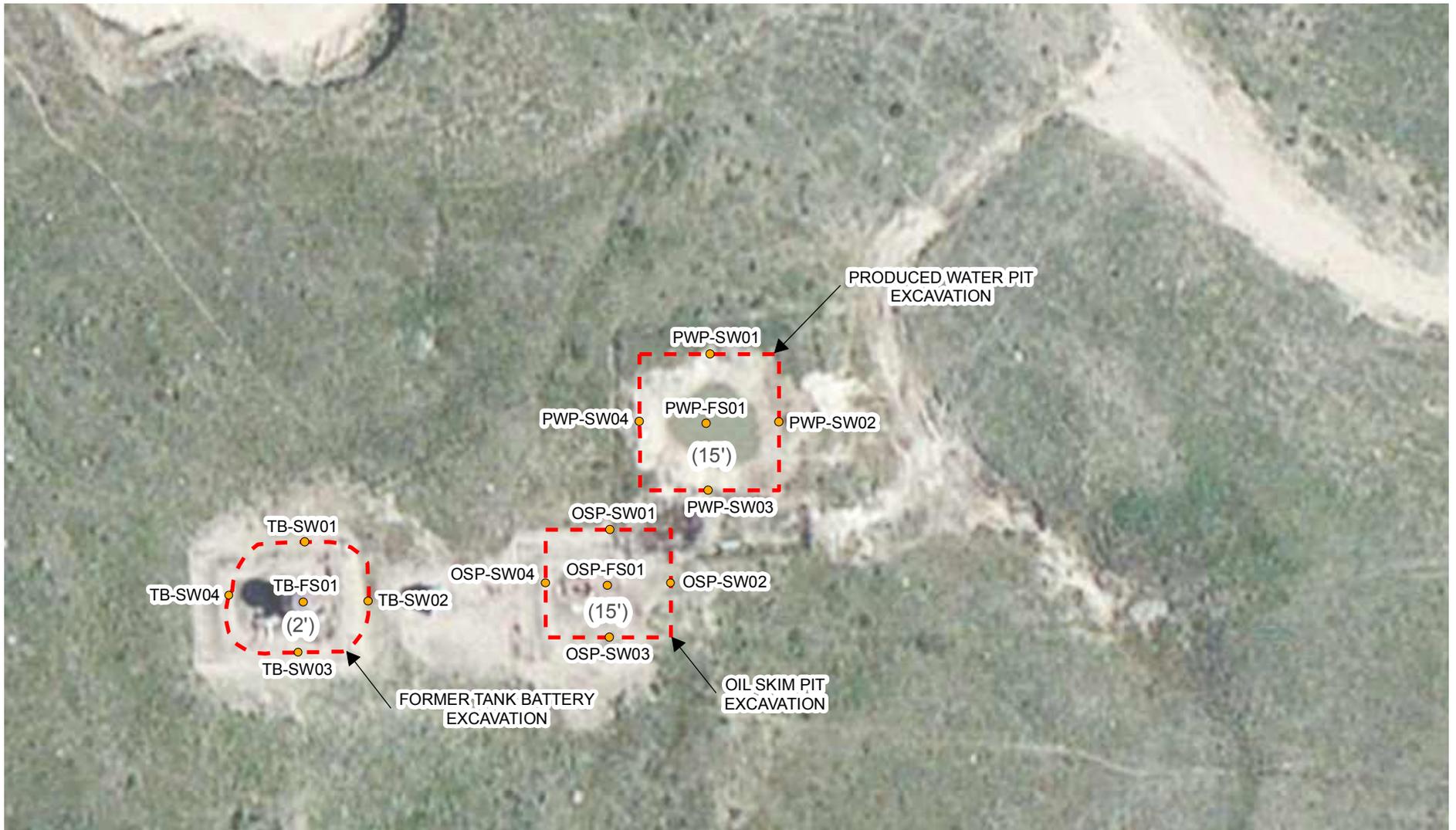


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- EXCAVATION EXTENT
- (15') EXCAVATION DEPTH IN FEET

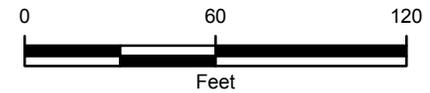


FIGURE 2
SITE MAP
GERRY PIT CLOSURE
WELD COUNTY, COLORADO

BEREN CORPORATION



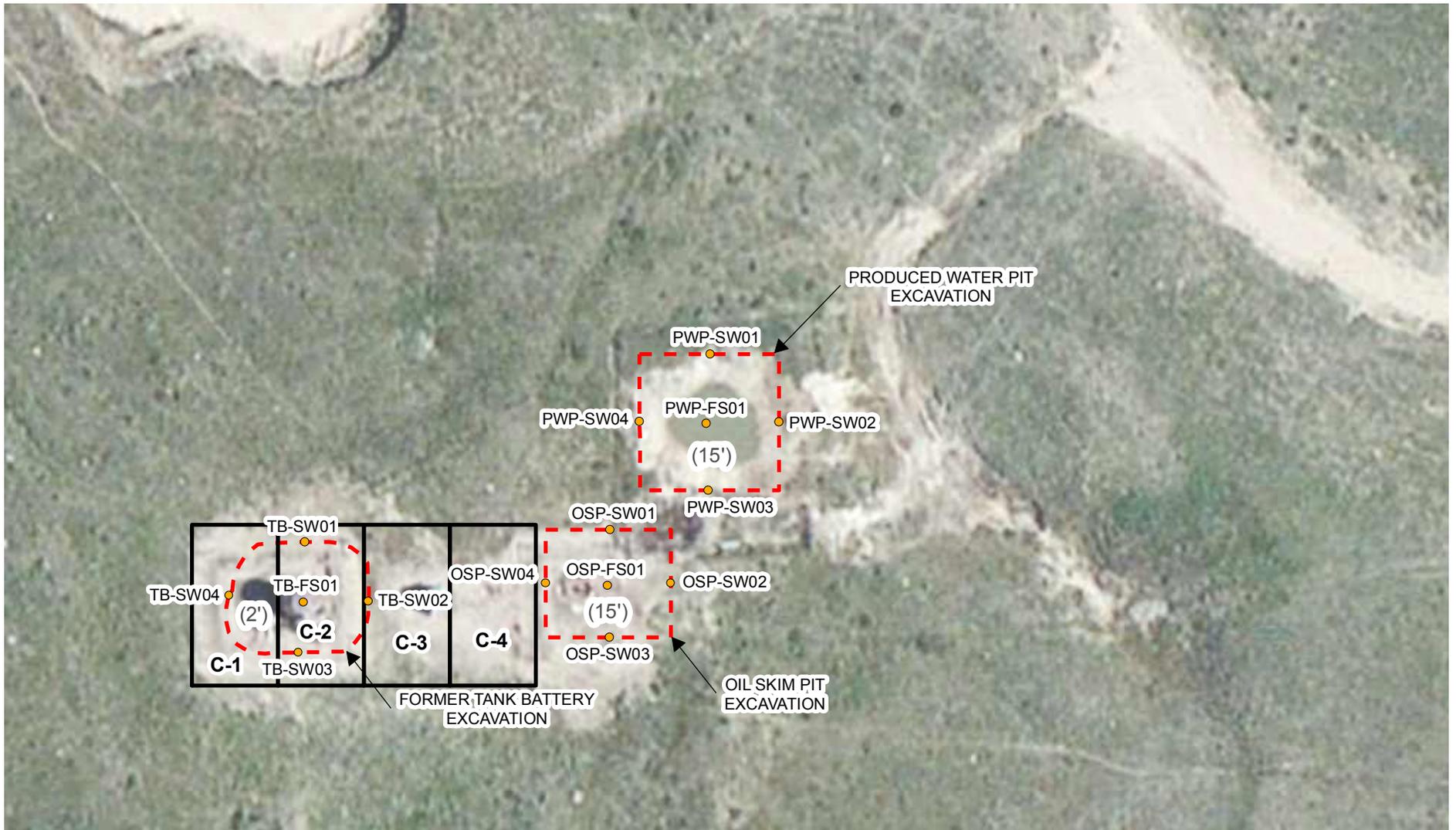


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- EXCAVATION EXTENT
- (15') EXCAVATION DEPTH IN FEET
- APPROXIMATELY 300 SQUARE YARD CELL

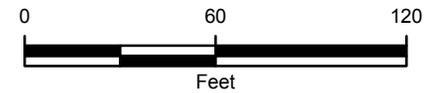


FIGURE 3
SITE MAP
GERRY PIT CLOSURE
WELD COUNTY, COLORADO

BEREN CORPORATION



TABLES



TABLE 1
SOIL ANALYTICAL RESULTS
GERRY FACILITY CLOSURE
WELD COUNTY, COLORADO

BEREN CORPORATION

Date	Soil Sample ID	Depth (feet)	Site Feature	PID (ppm)	Stain	Odor	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH (mg/kg)
6/5/2014	TB-FS01	2	Tank Battery	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	TB-SW01	2	Tank Battery	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	TB-SW02	2	Tank Battery	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	TB-SW03	2	Tank Battery	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	TB-SW04	2	Tank Battery	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
4/22/2014	HT-BT	4	Heater Treater	0.0	No	No	<0.002	<0.005	<0.005	<0.005	< 50	< 50	< 50
6/5/2014	OSP-FS01	15	Oil Skim Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	OSP-SW01	14	Oil Skim Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	OSP-SW02	14	Oil Skim Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	OSP-SW03	14	Oil Skim Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	OSP-SW04	14	Oil Skim Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	PWP-FS01	15	Produced Water Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	PWP-SW01	14	Produced Water Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	PWP-SW02	14	Produced Water Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	PWP-SW03	14	Produced Water Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
6/5/2014	PWP-SW04	14	Produced Water Pit	0.0	No	No	< 0.002	< 0.002	< 0.002	< 0.002	< 50	< 50	< 50
	COGCC Table 910-1 Standard						0.17	85	100	175	*	*	500

NOTES:

< - less than the stated laboratory method reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

mg/kg - milligrams per kilograms

TPH-GRO - Total Petroleum Hydrocarbons-Gasoline Range Organics

TPH-DRO - Total Petroleum Hydrocarbons-Diesel Range Organics

Total TPH - combination of TPH-DRO and TPH-GRO

* - TPH-GRO and TPH-DRO added for cumulative TPH

TABLE 1
SOIL ANALYTICAL RESULTS
GERRY FACILITY CLOSURE
WELD COUNTY, COLORADO

BEREN CORPORATION

Date	Sample ID	Depth (feet)	Site Feature	Mercury (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	EC mmhos/cm	pH	SAR
6/5/2014	TB-FS01	2	Tank Battery	<0.0192	0.788	27.5	<1	2.55	1.13	1.67	1.84	<3	1	7.52	0.0392	9.04	0.859
6/5/2014	TB-SW01	2	Tank Battery	0.0086	0.975	29.9	<0.909	3.5	1.57	2.54	2.15	<2.73	<1.82	8.99	0.0432	9.2	1.58
6/5/2014	TB-SW02	2	Tank Battery	0.0069	1.11	34.7	<1	4.11	1.97	2.25	2.4	<3	1.68	10.4	0.0304	7.94	0.69
6/5/2014	TB-SW03	2	Tank Battery	0.00232	1.2	33.1	<0.943	4.06	1.9	2.47	2.28	<2.83	1.96	9.87	0.0128	6.9	0.103
6/5/2014	TB-SW04	2	Tank Battery	0.00623	1.01	42.2	<0.909	3.84	2.05	1.96	2.71	<2.73	2.2	11.2	0.0103	7.26	0.139
6/5/2014	OSP-FS01	15	Oil Skim Pit	<0.0189	0.596	14.2	<0.909	1.51	0.767	1.58	1.11	<2.73	<1.82	5.12			
6/5/2014	OSP-SW01	14	Oil Skim Pit	0.00722	0.634	22.8	<0.877	2.42	1.78	2.06	1.91	0.499	1.53	8.82	--	--	--
6/5/2014	OSP-SW02	14	Oil Skim Pit	0.00412	<1.79	17.1	<0.893	2.12	1.15	1.87	1.52	<2.68	0.929	8.46	--	--	--
6/5/2014	OSP-SW03	14	Oil Skim Pit	0.00233	1.06	48	<0.962	4.71	4.14	3.22	3.31	<2.88	<1.92	14.5	--	--	--
6/5/2014	OSP-SW04	14	Oil Skim Pit	<0.0172	0.684	19.8	<0.862	2.17	1.57	0.988	1.42	<2.59	1.72	7.85	--	--	--
6/5/2014	PWP-FS01	15	Produced Water Pit	0.00509	0.594	64.1	<1	3.73	2.68	3	3.21	<3	0.569	13.2	--	--	--
6/5/2014	PWP-SW01	14	Produced Water Pit	0.00423	0.731	30.2	<1	3.48	1.87	2.11	1.97	0.511	2.49	7.85	--	--	--
6/5/2014	PWP-SW02	14	Produced Water Pit	0.00292	1.04	17	<0.893	1.58	0.826	1.28	1.16	<2.68	1.23	4.51	--	--	--
6/5/2014	PWP-SW03	14	Produced Water Pit	0.00282	0.939	30.2	<1	3.07	2.16	3.07	2.38	0.588	1.37	8.93	--	--	--
6/5/2014	PWP-SW04	14	Produced Water Pit	0.00958	0.767	39.3	<0.909	3.32	2.38	3.49	2.55	0.545	0.535	9.71	--	--	--
	COGCC Table 910-1 Standard			23	0.39	15000	70	120000	3100	400	1600	390	390	2300	<4	6 - 9	<12

NOTES:

- < - less than the stated laboratory method reporting limit
- COGCC - Colorado Oil and Gas Conservation Commission
- mg/kg - milligrams per kilograms
- TPH-GRO - Total Petroleum Hydrocarbons-Gasoline Range Organics
- TPH-DRO - Total Petroleum Hydrocarbons-Diesel Range Organics
- Total TPH - combination of TPH-DRO and TPH-GRO
- * - TPH-GRO and TPH-DRO added for cumulative TPH
- EC - Specific Conductance in mmhos/cm (milli ohms per centimeter)
- SAR - Sodium Absorption Ratio

ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 01, 2014

Eric Lang
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BNC - Gerry Pit Closure

Enclosed are the results of analyses for samples received by Summit Scientific on 04/24/14 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
President / Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-BT	1404181-01	Soil	04/22/14 09:30	04/24/14 13:00

Summit Scientific 1404181

S₂

741 Corporate Circle, Suite J&K • Golden, Colorado 80401
303-377-9310 • 303-374-9933

Client: LT Environmental, Inc. Project Manager: Eric Lang Page 1 of 1
 Address: 4600 West 60th Ave E-Mail: elang@ltenv.com
 City/State/Zip: Arvada, CO 80003
 Phone: 303-433-9788 Fax: 303-433-1432 Project Name: Gerry Pit Closure
 Sampler Name: Chris Brown Project Number: 041513001

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative					Matrix	Analysis Requested	Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater			
1	TB-BT	4/22/14	09:30	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Soil			
2												
3												
4												
5												
6												
7												
8												
9												
10												

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/24/14</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/22/14 1300</u>	Turn Around Time (Check):	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>4°C</u>	
				Intract: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.s2scientific.com



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

TB-BT
1404181-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/22/14 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1404193	04/28/14	04/29/14	8015M	

Date Sampled: **04/22/14 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/22/14 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1404194	"	04/29/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/22/14 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
 Project Manager: Eric Lang

Reported:
 05/01/14 22:03

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1404193 - EPA 3550A

Blank (1404193-BLK1)				Prepared & Analyzed: 04/28/14						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (1404193-BS1)				Prepared & Analyzed: 04/28/14						
C10-C28 (DRO)	517	50	mg/kg	460		112	73-134			
Matrix Spike (1404193-MS1)				Source: 1404179-01		Prepared & Analyzed: 04/28/14				
C10-C28 (DRO)	530	50	mg/kg	492	ND	108	50-148			
Matrix Spike Dup (1404193-MSD1)				Source: 1404179-01		Prepared & Analyzed: 04/28/14				
C10-C28 (DRO)	480	50	mg/kg	450	ND	107	50-148	9.87	13	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1404194 - EPA 5030 Soil MS

Blank (1404194-BLK1)

Prepared & Analyzed: 04/28/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0397		109	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	21-167			

LCS (1404194-BS1)

Prepared & Analyzed: 04/28/14

Benzene	0.0870	0.0020	mg/kg	0.0997		87.2	58-130			
Toluene	0.0956	0.0050	"	0.100		95.6	61-134			
Ethylbenzene	0.100	0.0050	"	0.0992		101	74-139			
m,p-Xylene	0.210	0.010	"	0.200		105	73-137			
o-Xylene	0.103	0.0050	"	0.0988		104	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0397		110	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	21-167			

LCS (1404194-BS2)

Prepared & Analyzed: 04/28/14

Benzene	0.106	0.0020	mg/kg	0.0997		107	58-130			
Toluene	0.104	0.0050	"	0.100		104	61-134			
Ethylbenzene	0.120	0.0050	"	0.0992		121	74-139			
m,p-Xylene	0.240	0.010	"	0.200		120	73-137			
o-Xylene	0.123	0.0050	"	0.0988		125	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0397		116	23-173			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	21-167			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1404194 - EPA 5030 Soil MS

Matrix Spike (1404194-MS1)

Source: 1404179-01

Prepared & Analyzed: 04/28/14

Benzene	0.0714	0.0018	mg/kg	0.0893	ND	79.9	30-131			
Toluene	0.0826	0.0045	"	0.0896	ND	92.1	30-134			
Ethylbenzene	0.125	0.0045	"	0.0889	ND	141	22-153			
m,p-Xylene	0.226	0.0090	"	0.179	ND	126	10-159			
o-Xylene	0.133	0.0045	"	0.0885	ND	151	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0356		113	23-173			
Surrogate: Toluene-d8	0.0345		"	0.0358		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0355		"	0.0358		99.1	21-167			

Matrix Spike (1404194-MS2)

Source: 1404179-02

Prepared & Analyzed: 04/28/14

Benzene	0.102	0.0020	mg/kg	0.0942	ND	108	30-131			
Toluene	0.0989	0.0050	"	0.0945	ND	105	30-134			
Ethylbenzene	0.110	0.0050	"	0.0938	ND	117	22-153			
m,p-Xylene	0.221	0.010	"	0.189	ND	117	10-159			
o-Xylene	0.109	0.0050	"	0.0934	ND	116	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0375		125	23-173			
Surrogate: Toluene-d8	0.0367		"	0.0378		97.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0378		100	21-167			

Matrix Spike Dup (1404194-MSD1)

Source: 1404179-01

Prepared & Analyzed: 04/28/14

Benzene	0.0760	0.0020	mg/kg	0.0946	ND	80.4	30-131	6.28	34	
Toluene	0.0879	0.0050	"	0.0949	ND	92.7	30-134	6.30	30	
Ethylbenzene	0.137	0.0050	"	0.0941	ND	146	22-153	9.19	24	
m,p-Xylene	0.245	0.010	"	0.190	ND	129	10-159	8.02	68	
o-Xylene	0.138	0.0050	"	0.0937	ND	147	31-151	3.49	38	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0377		111	23-173			
Surrogate: Toluene-d8	0.0368		"	0.0380		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0380		99.7	21-167			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1404194 - EPA 5030 Soil MS

Matrix Spike Dup (1404194-MSD2)	Source: 1404179-02			Prepared & Analyzed: 04/28/14						
Benzene	0.100	0.0020	mg/kg	0.0950	ND	106	30-131	1.13	34	
Toluene	0.0951	0.0050	"	0.0952	ND	99.8	30-134	3.97	30	
Ethylbenzene	0.111	0.0050	"	0.0945	ND	117	22-153	0.811	24	
m,p-Xylene	0.223	0.010	"	0.190	ND	117	10-159	0.900	68	
o-Xylene	0.111	0.0050	"	0.0941	ND	118	31-151	2.29	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0449</i>		<i>"</i>	<i>0.0378</i>		<i>119</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0381</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0381</i>		<i>"</i>	<i>0.0381</i>		<i>100</i>	<i>21-167</i>			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BNC - Gerry Pit Closure

Project Number: 0415-13001
Project Manager: Eric Lang

Reported:
05/01/14 22:03

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

June 10, 2014

LT Environmental, Inc.

Eric Lang

4600 West 60th Avenue

Arvada CO 80003

Project Name - Beren - Gerry

Project Number - [none]

Attached are your analytical results for Beren - Gerry received by Origins Laboratory, Inc. June 05, 2014. This project is associated with Origins project number X406063-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-FS01 @ 2'	X406063-01	Soil	June 5, 2014 10:15	06/05/2014 16:05
TB-SW01 @ 2'	X406063-02	Soil	June 5, 2014 10:20	06/05/2014 16:05
TB-SW02 @ 2'	X406063-03	Soil	June 5, 2014 10:25	06/05/2014 16:05
TB-SW03 @ 2'	X406063-04	Soil	June 5, 2014 10:30	06/05/2014 16:05
TB-SW04 @ 2'	X406063-05	Soil	June 5, 2014 10:35	06/05/2014 16:05
OSP-FS01 @ 15'	X406063-06	Soil	June 5, 2014 11:00	06/05/2014 16:05
OSP-SW01 @ 14'	X406063-07	Soil	June 5, 2014 11:05	06/05/2014 16:05
OSP-SW02 @ 14'	X406063-08	Soil	June 5, 2014 11:10	06/05/2014 16:05
OSP-SW03 @ 14'	X406063-09	Soil	June 5, 2014 11:15	06/05/2014 16:05
OSP-SW04 @ 14'	X406063-10	Soil	June 5, 2014 11:20	06/05/2014 16:05
PWP-FS01 @ 15'	X406063-11	Soil	June 5, 2014 11:30	06/05/2014 16:05
PWP-SW01 @ 14'	X406063-12	Soil	June 5, 2014 11:35	06/05/2014 16:05
PWP-SW02 @ 14'	X406063-13	Soil	June 5, 2014 11:40	06/05/2014 16:05
PWP-SW03 @ 14'	X406063-14	Soil	June 5, 2014 11:45	06/05/2014 16:05

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWP-SW04 @ 14'	X406063-15	Soil	June 5, 2014 12:00	06/05/2014 16:05

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

www.originslaboratory.com

page 2 of 2

X406063

ORIGINS
 LABORATORY, INC

Client: LTE
 Address: _____
 Telephone Number: _____
 Email Address: Eric Lang

Project Manager: Eric Lang
 Project Name: Beren - Gerry
 Project Number: _____
 Samples Collected By: B. Finn

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other	GR0/DR0		Metals (g/l)	
PWP - F501 @ 15'	06/09/14	1120	3	X				X				X	X	1	
PWP - SW01 @ 14'		1135	3	X				X				X	X	2	
PWP - SW02 @ 14'		1140	3	X				X				X	X	3	
PWP - SW03 @ 14'		1145	3	X				X				X	X	4	
PWP - SW04 @ 14'		1200	3	X				X				X	X	5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: <u>[Signature]</u>	Date: <u>06/09/2014</u>	Time: <u>1605</u>	Received By: <u>[Signature]</u>	Date: <u>6/15/14</u>	Time: <u>1605</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>								
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____										

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X406063

Client: LTE

Client Project ID: Beren Gerry

Checklist Completed by: JCE Smith

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/5/14 16:15

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 15.3 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			PH
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?		X		See below
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	Soil
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ O ₂ +NaOH, ZnAc+NaOH)			X	Soil
Additional Comments (if any): Sample ID TB-SW04G 2/ on COC does not match sample container ID TB-SW04G 2/. All sample times on sample containers match COC. Confirmed via vial with Brandon P. Sample discrepancy was a typo on container, COC is correct. 6/16/14 JCE				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-FS01 @ 2'
 6/5/2014 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/06/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0999	mg/kg	1	942933	06/09/2014	06/09/2014	
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Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0392		mmhos/cm	1	4F09006	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	109 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-FS01 @ 2'
6/5/2014 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-01 (Soil)

Mercury by SW-846 7471A

Mercury	ND	0.0192	mg/kg	1	942925	06/09/2014	06/09/2014	
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Metals by ICP

Arsenic	0.788	2	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	27.5	1	"	"	"	"	"	
Cadmium	ND	1	"	"	"	"	"	
Chromium	2.55	1	"	"	"	"	"	
Copper	1.13	2	"	"	"	"	"	J
Lead	1.67	2	"	"	"	"	"	J
Nickel	1.84	1	"	"	"	"	"	
Selenium	ND	3	"	"	"	"	"	
Silver	1	2	"	"	"	"	"	J
Zinc	7.52	3	"	"	"	"	"	

Percent Moisture

Percent Moisture	4.8	1	%	1	942733	"	06/06/2014	
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pH in Soil by EPA 9045D

pH	9.04		pH Units	1	4F09007	06/09/2014	06/09/2014	
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Sodium Absorption Ratio by LA method 29B

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

TB-FS01 @ 2'
6/5/2014 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-01 (Soil)

Sodium Absorption Ratio by LA method 29B

Sodium absorption ratio	0.859			1	943005	06/10/2014	06/10/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW01 @ 2'
 6/5/2014 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0994	mg/kg	1	942933	06/09/2014	06/09/2014	
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Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0432		mmhos/cm	1	4F09006	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	92.7	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	96.0 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW01 @ 2'
 6/5/2014 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-02 (Soil)

Mercury by SW-846 7471A

Mercury	0.0086	0.02	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Arsenic	0.975	1.82	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	29.9	0.909	"	"	"	"	"	
Cadmium	ND	0.909	"	"	"	"	"	
Chromium	3.5	0.909	"	"	"	"	"	
Copper	1.57	1.82	"	"	"	"	"	J
Lead	2.54	1.82	"	"	"	"	"	
Nickel	2.15	0.909	"	"	"	"	"	
Selenium	ND	2.73	"	"	"	"	"	
Silver	ND	1.82	"	"	"	"	"	
Zinc	8.99	2.73	"	"	"	"	"	

Percent Moisture

Percent Moisture	8.86	1	%	1	942733	"	06/06/2014	
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pH in Soil by EPA 9045D

pH	9.20		pH Units	1	4F09007	06/09/2014	06/09/2014	
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Sodium Absorption Ratio by LA method 29B

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

TB-SW01 @ 2'
6/5/2014 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-02 (Soil)

Sodium Absorption Ratio by LA method 29B

Sodium absorption ratio	1.58			1	943005	06/10/2014	06/10/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW02 @ 2'
 6/5/2014 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-03 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0992	mg/kg	1	942933	06/09/2014	06/09/2014	
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Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0304		mmhos/cm	1	4F09006	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	93.6 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW02 @ 2'
 6/5/2014 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-03 (Soil)

Mercury by SW-846 7471A

Mercury	0.0069	0.0172	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Arsenic	1.11	2	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	34.7	1	"	"	"	"	"	
Cadmium	ND	1	"	"	"	"	"	
Chromium	4.11	1	"	"	"	"	"	
Copper	1.97	2	"	"	"	"	"	J
Lead	2.25	2	"	"	"	"	"	
Nickel	2.4	1	"	"	"	"	"	
Selenium	ND	3	"	"	"	"	"	
Silver	1.68	2	"	"	"	"	"	J
Zinc	10.4	3	"	"	"	"	"	

Percent Moisture

Percent Moisture	6.52	1	%	1	942733	"	06/06/2014	
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pH in Soil by EPA 9045D

pH	7.94		pH Units	1	4F09007	06/09/2014	06/09/2014	
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Sodium Absorption Ratio by LA method 29B

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

TB-SW02 @ 2'
6/5/2014 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-03 (Soil)

Sodium Absorption Ratio by LA method 29B

Sodium absorption ratio	0.69			1	943005	06/10/2014	06/10/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW03 @ 2'
 6/5/2014 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-04 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0995	mg/kg	1	942933	06/09/2014	06/09/2014	
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Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0128		mmhos/cm	1	4F09006	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	93.3 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW03 @ 2'
 6/5/2014 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-04 (Soil)

Mercury by SW-846 7471A

Mercury	0.00232	0.0179	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Arsenic	1.2	1.89	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	33.1	0.943	"	"	"	"	"	
Cadmium	ND	0.943	"	"	"	"	"	
Chromium	4.06	0.943	"	"	"	"	"	
Copper	1.9	1.89	"	"	"	"	"	
Lead	2.47	1.89	"	"	"	"	"	
Nickel	2.28	0.943	"	"	"	"	"	
Selenium	ND	2.83	"	"	"	"	"	
Silver	1.96	1.89	"	"	"	"	"	
Zinc	9.87	2.83	"	"	"	"	"	

Percent Moisture

Percent Moisture	5.9	1	%	1	942733	"	06/06/2014	
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pH in Soil by EPA 9045D

pH	6.90		pH Units	1	4F09007	06/09/2014	06/09/2014	
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Sodium Absorption Ratio by LA method 29B

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

TB-SW03 @ 2'
6/5/2014 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-04 (Soil)

Sodium Absorption Ratio by LA method 29B

Sodium absorption ratio	0.103			1	943005	06/10/2014	06/10/2014	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW04 @ 2'
 6/5/2014 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-05 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0976	mg/kg	1	942933	06/09/2014	06/09/2014	
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Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0103		mmhos/cm	1	4F09006	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	96.0 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

TB-SW04 @ 2'
 6/5/2014 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-05 (Soil)

Mercury by SW-846 7471A

Mercury	0.00623	0.0175	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Arsenic	1.01	1.82	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	42.2	0.909	"	"	"	"	"	
Cadmium	ND	0.909	"	"	"	"	"	
Chromium	3.84	0.909	"	"	"	"	"	
Copper	2.05	1.82	"	"	"	"	"	
Lead	1.96	1.82	"	"	"	"	"	
Nickel	2.71	0.909	"	"	"	"	"	
Selenium	ND	2.73	"	"	"	"	"	
Silver	2.2	1.82	"	"	"	"	"	
Zinc	11.2	2.73	"	"	"	"	"	

Percent Moisture

Percent Moisture	9.28	1	%	1	942733	"	06/06/2014	
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pH in Soil by EPA 9045D

pH	7.26		pH Units	1	4F09007	06/09/2014	06/09/2014	
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Sodium Absorption Ratio by LA method 29B

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Eric Lang
Project Number: [none]
Project: Beren - Gerry

TB-SW04 @ 2'
6/5/2014 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-05 (Soil)

Sodium Absorption Ratio by LA method 29B

Sodium absorption ratio	0.139			1	943005	06/10/2014	06/10/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-FS01 @ 15'
 6/5/2014 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0982	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.9 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	ND	0.0189	mg/kg	1	942925	06/09/2014	06/09/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-FS01 @ 15'
 6/5/2014 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-06 (Soil)

Metals by ICP

Arsenic	0.569	1.82	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	14.2	0.909	"	"	"	"	"	
Cadmium	ND	0.909	"	"	"	"	"	
Chromium	1.51	0.909	"	"	"	"	"	
Copper	0.767	1.82	"	"	"	"	"	J
Lead	1.58	1.82	"	"	"	"	"	J
Nickel	1.11	0.909	"	"	"	"	"	
Selenium	ND	2.73	"	"	"	"	"	
Silver	ND	1.82	"	"	"	"	"	
Zinc	5.12	2.73	"	"	"	"	"	

Percent Moisture

Percent Moisture	2.98	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW01 @ 14'
 6/5/2014 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-07 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0977	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	89.7 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00722	0.0185	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW01 @ 14'
 6/5/2014 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-07 (Soil)

Metals by ICP

Arsenic	0.634	1.75	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	22.8	0.877	"	"	"	"	"	
Cadmium	ND	0.877	"	"	"	"	"	
Chromium	2.42	0.877	"	"	"	"	"	
Copper	1.78	1.75	"	"	"	"	"	
Lead	2.06	1.75	"	"	"	"	"	
Nickel	1.91	0.877	"	"	"	"	"	
Selenium	0.499	2.63	"	"	"	"	"	J
Silver	1.53	1.75	"	"	"	"	"	J
Zinc	8.82	2.63	"	"	"	"	"	

Percent Moisture

Percent Moisture	16.8	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW02 @ 14'
 6/5/2014 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-08 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.0 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.9 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0974	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/06/2014	
Diesel (C10-C28)	86.3	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	98.0 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00412	0.0196	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW02 @ 14'
 6/5/2014 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-08 (Soil)

Metals by ICP

Arsenic	ND	1.79	mg/kg	1	942847	06/06/2014	06/06/2014	
Barium	17.1	0.893	"	"	"	"	"	
Cadmium	ND	0.893	"	"	"	"	"	
Chromium	2.12	0.893	"	"	"	"	"	
Copper	1.15	1.79	"	"	"	"	"	J
Lead	1.87	1.79	"	"	"	"	"	
Nickel	1.52	0.893	"	"	"	"	"	
Selenium	ND	2.68	"	"	"	"	"	
Silver	0.929	1.79	"	"	"	"	"	J
Zinc	8.46	2.68	"	"	"	"	"	

Percent Moisture

Percent Moisture	9.8	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW03 @ 14'
 6/5/2014 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-09 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0973	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	97.3 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00233	0.0167	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW03 @ 14'
 6/5/2014 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-09 (Soil)

Metals by ICP

Arsenic	1.06	1.92	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	48	0.962	"	"	"	"	"	
Cadmium	ND	0.962	"	"	"	"	"	
Chromium	4.71	0.962	"	"	"	"	"	
Copper	4.14	1.92	"	"	"	"	"	
Lead	3.22	1.92	"	"	"	"	"	
Nickel	3.31	0.962	"	"	"	"	"	
Selenium	ND	2.88	"	"	"	"	"	
Silver	ND	1.92	"	"	"	"	"	
Zinc	14.5	2.88	"	"	"	"	"	

Percent Moisture

Percent Moisture	14.2	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW04 @ 14'
 6/5/2014 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-10 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.4 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0988	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	95.4 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	ND	0.0172	mg/kg	1	942925	06/09/2014	06/09/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

OSP-SW04 @ 14'
 6/5/2014 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-10 (Soil)

Metals by ICP

Arsenic	0.684	1.72	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	19.8	0.862	"	"	"	"	"	
Cadmium	ND	0.862	"	"	"	"	"	
Chromium	2.17	0.862	"	"	"	"	"	
Copper	1.57	1.72	"	"	"	"	"	J
Lead	0.988	1.72	"	"	"	"	"	J
Nickel	1.42	0.862	"	"	"	"	"	
Selenium	ND	2.59	"	"	"	"	"	
Silver	ND	1.72	"	"	"	"	"	
Zinc	7.85	2.59	"	"	"	"	"	

Percent Moisture

Percent Moisture	8.4	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-FS01 @ 15'
6/5/2014 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X406063-11 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.8 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.9 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.6 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.101	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	96.4 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00509	0.0185	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-FS01 @ 15'
6/5/2014 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-11 (Soil)

Metals by ICP

Arsenic	0.594	2	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	64.1	1	"	"	"	"	"	
Cadmium	ND	1	"	"	"	"	"	
Chromium	3.73	1	"	"	"	"	"	
Copper	2.68	2	"	"	"	"	"	
Lead	3	2	"	"	"	"	"	
Nickel	3.21	1	"	"	"	"	"	
Selenium	ND	3	"	"	"	"	"	
Silver	0.569	2	"	"	"	"	"	J
Zinc	13.2	3	"	"	"	"	"	

Percent Moisture

Percent Moisture	0.9	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW01 @ 14'
 6/5/2014 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-12 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0987	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	95.2 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00423	0.0192	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW01 @ 14'
 6/5/2014 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-12 (Soil)

Metals by ICP

Arsenic	0.731	2	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	30.2	1	"	"	"	"	"	
Cadmium	ND	1	"	"	"	"	"	
Chromium	3.48	1	"	"	"	"	"	
Copper	1.87	2	"	"	"	"	"	J
Lead	2.11	2	"	"	"	"	"	
Nickel	1.97	1	"	"	"	"	"	
Selenium	0.511	3	"	"	"	"	"	J
Silver	2.49	2	"	"	"	"	"	
Zinc	7.85	3	"	"	"	"	"	

Percent Moisture

Percent Moisture	23.1	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW02 @ 14'
 6/5/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-13 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0998	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	96.7 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00292	0.0167	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW02 @ 14'
6/5/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-13 (Soil)

Metals by ICP

Arsenic	1.04	1.79	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	17	0.893	"	"	"	"	"	
Cadmium	ND	0.893	"	"	"	"	"	
Chromium	1.58	0.893	"	"	"	"	"	
Copper	0.826	1.79	"	"	"	"	"	J
Lead	1.28	1.79	"	"	"	"	"	J
Nickel	1.16	0.893	"	"	"	"	"	
Selenium	ND	2.68	"	"	"	"	"	
Silver	1.23	1.79	"	"	"	"	"	J
Zinc	4.51	2.68	"	"	"	"	"	

Percent Moisture

Percent Moisture	13.5	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW03 @ 14'
 6/5/2014 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X406063-14 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	109 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0984	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	96.5 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00282	0.0182	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW03 @ 14'
 6/5/2014 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
 X406063-14 (Soil)

Metals by ICP

Arsenic	0.939	2	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	30.2	1	"	"	"	"	"	
Cadmium	ND	1	"	"	"	"	"	
Chromium	3.07	1	"	"	"	"	"	
Copper	2.16	2	"	"	"	"	"	
Lead	3.07	2	"	"	"	"	"	
Nickel	2.38	1	"	"	"	"	"	
Selenium	0.588	3	"	"	"	"	"	J
Silver	1.37	2	"	"	"	"	"	J
Zinc	8.93	3	"	"	"	"	"	

Percent Moisture

Percent Moisture	8.61	1	%	1	942733	"	06/06/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW04 @ 14'
6/5/2014 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X406063-15 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4F06010	06/06/2014	06/09/2014	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	109 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"	

Chromium, Hexavalent (Colorimetric)

Chromium, Hexavalent	ND	0.0977	mg/kg	1	942933	06/09/2014	06/09/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4F06009	06/06/2014	06/07/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	94.8 %	59-131			"	"	"	
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Mercury by SW-846 7471A

Mercury	0.00958	0.0169	mg/kg	1	942925	06/09/2014	06/09/2014	J
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Metals by ICP

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

PWP-SW04 @ 14'
6/5/2014 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X406063-15 (Soil)

Metals by ICP

Arsenic	0.767	1.82	mg/kg	1	942847	06/06/2014	06/06/2014	J
Barium	39.3	0.909	"	"	"	"	"	
Cadmium	ND	0.909	"	"	"	"	"	
Chromium	3.32	0.909	"	"	"	"	"	
Copper	2.38	1.82	"	"	"	"	"	
Lead	3.49	1.82	"	"	"	"	"	
Nickel	2.55	0.909	"	"	"	"	"	
Selenium	0.545	2.73	"	"	"	"	"	J
Silver	0.535	1.82	"	"	"	"	"	J
Zinc	9.71	2.73	"	"	"	"	"	

Percent Moisture

Percent Moisture	8.28	1	%	1	942733	"	06/06/2014	
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 4600 West 60th Avenue
 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4F06010 - EPA 5030 (soil)

Blank (4F06010-BLK1)

Prepared: 06/06/2014 Analyzed: 06/06/2014

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>63</i>		<i>ug/kg</i>	<i>62.5</i>	<i>102</i>		<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>68</i>		<i>"</i>	<i>62.5</i>	<i>109</i>		<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65</i>		<i>"</i>	<i>62.5</i>	<i>104</i>		<i>70-130</i>			

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Eric Lang
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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4F06010 - EPA 5030 (soil)

LCS (4F06010-BS1)

Prepared: 06/06/2014 Analyzed: 06/06/2014

Benzene	0.1	0.002	mg/kg	0.100	110	77.1-124				
Toluene	0.1	0.002	"	0.100	111	74.5-128				
Ethylbenzene	0.1	0.002	"	0.100	105	66.4-127				
m,p-Xylene	0.2	0.004	"	0.200	108	76.6-124				
o-Xylene	0.1	0.002	"	0.100	98.5	76.6-124				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>ug/kg</i>	<i>62.5</i>	<i>100</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>	<i>110</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>	<i>101</i>	<i>70-130</i>				

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 Project: Beren - Gerry

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4F06010 - EPA 5030 (soil)

Matrix Spike (4F06010-MS1)	Source: X406063-01			Prepared: 06/06/2014 Analyzed: 06/06/2014						
Benzene	0.1	0.002	mg/kg	0.100	ND	97.4	71.8-126			
Toluene	0.1	0.002	"	0.100	ND	98.7	65.1-130			
Ethylbenzene	0.09	0.002	"	0.100	ND	94.2	62.2-130			
m,p-Xylene	0.2	0.004	"	0.200	ND	98.6	46.5-137			
o-Xylene	0.09	0.002	"	0.100	ND	91.2	54.2-134			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>ug/kg</i>	<i>62.5</i>		<i>99.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>70-130</i>			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4F06010 - EPA 5030 (soil)

Matrix Spike Dup (4F06010-MSD1)	Source: X406063-01			Prepared: 06/06/2014 Analyzed: 06/06/2014						
Benzene	0.1	0.002	mg/kg	0.100	ND	95.5	71.8-126	1.93	11.3	
Toluene	0.1	0.002	"	0.100	ND	95.9	65.1-130	2.94	15.4	
Ethylbenzene	0.09	0.002	"	0.100	ND	90.5	62.2-130	4.01	19.6	
m,p-Xylene	0.2	0.004	"	0.200	ND	92.7	46.5-137	6.18	19.2	
o-Xylene	0.09	0.002	"	0.100	ND	86.6	54.2-134	5.18	17.9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>ug/kg</i>	<i>62.5</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4F06009 - EPA 3580

Blank (4F06009-BLK1)

Prepared: 06/06/2014 Analyzed: 06/06/2014

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	48		g	50.0		96.7	59-131			

LCS (4F06009-BS1)

Prepared: 06/06/2014 Analyzed: 06/06/2014

Gasoline (C6-C10)	889	50.0	mg/kg	1000		88.9	59-133			
Diesel (C10-C28)	980	50.0	"	1000		98.0	64-121			
<i>Surrogate: o-Terphenyl</i>	47		g	50.0		94.3	59-131			

Matrix Spike (4F06009-MS1)

Source: X406063-01

Prepared: 06/06/2014 Analyzed: 06/06/2014

Gasoline (C6-C10)	886	50.0	mg/kg	1000	24.0	86.2	57-139			
Diesel (C10-C28)	983	50.0	"	1000	24.4	95.9	53-125			
<i>Surrogate: o-Terphenyl</i>	47		g	50.0		94.5	59-131			

Matrix Spike Dup (4F06009-MSD1)

Source: X406063-01

Prepared: 06/06/2014 Analyzed: 06/06/2014

Gasoline (C6-C10)	901	50.0	mg/kg	1000	24.0	87.6	57-139	1.61	20	
Diesel (C10-C28)	995	50.0	"	1000	24.4	97.1	53-125	1.21	20	
<i>Surrogate: o-Terphenyl</i>	48		g	50.0		95.4	59-131			

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 Project: Beren - Gerry

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4F09006 - NO PREP										
Blank (4F09006-BLK1)					Prepared: 06/09/2014 Analyzed: 06/09/2014					
Specific Conductance (EC)	0.00170		mmhos/cm							
Duplicate (4F09006-DUP1)					Source: X406044-02 Prepared: 06/09/2014 Analyzed: 06/09/2014					
Specific Conductance (EC)	0.531		mmhos/cm		0.573			7.61	10	
Batch 4F09007 - NO PREP										
Duplicate (4F09007-DUP1)					Source: X406044-01 Prepared: 06/09/2014 Analyzed: 06/09/2014					
pH	8.41		pH Units		8.42			0.143	25	

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Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

Chromium, Hexavalent (Colorimetric) - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 942933 - SW3060A										
MS (486841-001 S)		Source: 486841-001 S			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	3.64	0.0988	mg/kg	3.95	<0.0304	92	80-120		20	
MSD (486841-001 SD)		Source: 486841-001 SD			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	3.73	0.0993	mg/kg	3.97	<0.0306	94	80-120	2	20	
MS (486841-011 S)		Source: 486841-011 S			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	3.86	0.0997	mg/kg	3.99	<0.0307	97	80-120		20	
MSD (486841-011 SD)		Source: 486841-011 SD			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	3.67	0.0994	mg/kg	3.98	<0.0306	92	80-120	5	20	
LCS (942933-1-BKS)		Source: 942933-1-BKS			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	0.407	0.01	mg/kg	0.4	<0.00308	102	80-120		20	
BLANK (942933-1-BLK)		Source: 942933-1-BLK			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Chromium, Hexavalent	ND	0.01	mg/kg	0.4			-		20	

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 Arvada CO 80003

Eric Lang
 Project Number: [none]
 Project: Beren - Gerry

Mercury by SW-846 7471A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 942925 - SW7471P										
MS (486841-002 S)		Source: 486841-002 S			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Mercury	0.195	0.0189	mg/kg	0.189	0.0086	99	80-120		20	
MSD (486841-002 SD)		Source: 486841-002 SD			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Mercury	0.19	0.0189	mg/kg	0.189	0.0086	96	80-120	3	20	
LCS (656714-1-BKS)		Source: 656714-1-BKS			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Mercury	0.201	0.02	mg/kg	0.2	<0.00140	101	80-120		20	
BLANK (656714-1-BLK)		Source: 656714-1-BLK			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Mercury	ND	0.02	mg/kg	0.4			-		20	
LCSD (656714-1-BSD)		Source: 656714-1-BSD			Prepared: 06/09/2014 Analyzed: 06/09/2014					
Mercury	0.202	0.02	mg/kg	0.2	<0.00140	101	80-120	0	20	

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 Project: Beren - Gerry

Metals by ICP - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 942847 - SW3050B										
MS (486841-001 S)			Source: 486841-001 S			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Arsenic	91.7	2	mg/kg	100	0.788	91	75-125		20	
Selenium	94	3	"	100	<0.498	94	75-125		20	
Lead	93.7	2	"	100	1.67	92	75-125		20	
Cadmium	88	1	"	100	<0.239	88	75-125		20	
Chromium	96.6	1	"	100	2.55	94	75-125		20	
Copper	93.1	2	"	100	1.13	92	75-125		20	
Nickel	92.6	1	"	100	1.84	91	75-125		20	
Silver	46.3	2	"	50	1	91	75-125		20	
Zinc	103	3	"	100	7.52	95	75-125		20	
Barium	114	1	"	100	27.5	87	75-125		20	
MSD (486841-001 SD)			Source: 486841-001 SD			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Zinc	103	3	mg/kg	100	7.52	95	75-125	0	20	
Selenium	92.3	3	"	100	<0.498	92	75-125	2	20	
Arsenic	89.9	2	"	100	0.788	89	75-125	2	20	
Nickel	91.7	1	"	100	1.84	90	75-125	1	20	
Lead	92.8	2	"	100	1.67	91	75-125	1	20	
Copper	92	2	"	100	1.13	91	75-125	1	20	
Silver	44.7	2	"	50	1	87	75-125	4	20	
Cadmium	86.9	1	"	100	<0.239	87	75-125	1	20	
Barium	115	1	"	100	27.5	88	75-125	1	20	
Chromium	96.1	1	"	100	2.55	94	75-125	1	20	
LCS (656604-1-BKS)			Source: 656604-1-BKS			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Nickel	91.1	1	mg/kg	100	<0.248	91	75-125		20	
Zinc	95.6	3	"	100	<0.556	96	75-125		20	
Selenium	92.7	3	"	100	<0.498	93	75-125		20	

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Eric Lang
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 Project: Beren - Gerry

Metals by ICP - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 942847 - SW3050B										
LCS (656604-1-BKS)			Source: 656604-1-BKS			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Lead	92.1	2	mg/kg	100	<0.476	92	75-125		20	
Copper	89.8	2	"	100	<0.443	90	75-125		20	
Chromium	93.3	1	"	100	0.112	93	75-125		20	
Cadmium	86.6	1	"	100	<0.239	87	75-125		20	
Barium	87.2	1	"	100	0.259	87	75-125		20	
Arsenic	88.5	2	"	100	<0.424	89	75-125		20	
Silver	47	2	"	50	<0.565	94	75-125		20	
BLANK (656604-1-BLK)			Source: 656604-1-BLK			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Nickel	ND	1	mg/kg	100			-		20	
Zinc	ND	3	"	100			-		20	
Arsenic	ND	2	"	100			-		20	
Barium	0.259	1	"	100			-		20	J
Cadmium	ND	1	"	100			-		20	
Chromium	0.112	1	"	100			-		20	J
Copper	ND	2	"	100			-		20	
Lead	ND	2	"	100			-		20	
Selenium	ND	3	"	100			-		20	
Silver	ND	2	"	50			-		20	
LCSD (656604-1-BSD)			Source: 656604-1-BSD			Prepared: 06/06/2014 Analyzed: 06/06/2014				
Barium	95	1	mg/kg	100	0.259	95	75-125	9	20	
Cadmium	94.1	1	"	100	<0.239	94	75-125	8	20	
Zinc	104	3	"	100	<0.556	104	75-125	8	20	
Silver	48.8	2	"	50	<0.565	98	75-125	4	20	
Selenium	100	3	"	100	<0.498	100	75-125	8	20	
Nickel	98.9	1	"	100	<0.248	99	75-125	8	20	

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 Project Number: [none]
 Project: Beren - Gerry

Metals by ICP - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 942847 - SW3050B

LCSD (656604-1-BSD)	Source: 656604-1-BSD			Prepared: 06/06/2014 Analyzed: 06/06/2014						
Lead	101	2	mg/kg	100	<0.476	101	75-125	9	20	
Copper	97.6	2	"	100	<0.443	98	75-125	8	20	
Chromium	101	1	"	100	0.112	101	75-125	8	20	
Arsenic	97.4	2	"	100	<0.424	97	75-125	10	20	

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 Project: Beren - Gerry

Percent Moisture - Quality Control
 XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 942733 - NONE

BLANK (942733-1-BLK)

Source: 942733-1-BLK

Prepared: 06/06/2014 Analyzed: 06/06/2014

Percent Moisture	ND	1	%	0			-		20	
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Eric Lang
Project Number: [none]
Project: Beren - Gerry

Notes and Definitions

J Sample result is detected between the MDL and PQL, result is considered estimated

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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