

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

## 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): Pit Closure

OGCC Employee:

☐ Spill ☐ Complaint  
☐ Inspection ☐ NOAV

Tracking No:

## GENERAL INFORMATION

<b>OGCC Operator Number:</b> 52530		<b>Contact Name and Telephone</b>	
Name of Operator: <u>Magpie Operating Inc</u>		Name: <u>Ryan Warner</u>	
Address: <u>2707 South County Road 11</u>		No: <u>970.669.6308</u>	
City: <u>Loveland</u> State: <u>CO</u> Zip: <u>80537</u>		Fax: <u>970.669.6396</u>	
API/Facility No: <u>075-05621</u>		County: <u>Logan</u>	
Facility Name: <u>Warnecke - Skim Pit</u>		Facility Number: <u>218853</u>	
Well Name: <u>Warnecke</u>		Well Number: <u>12-33</u>	
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE 30 8N 53W</u>		Latitude: <u>40.625638</u> Longitude: <u>-103.337188</u>	

## TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): <u>Produced Water</u>		
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, attach evaluation. Surface water adjacent to site		
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): <u>Dry land farming</u>		
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: <u>Weld loam, 1-3% slopes</u>		
Potential receptors (water wells within 1/4 mi, surface waters, etc.): <u>Irrigation channel 500' WNW of site, Water Well #65039 approximately 1,000' SE of the site</u>		
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	<u>30' x 20' (1 oil skim pit)</u>	<u>Observation, Sampling and laboratory analysis</u>
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface water		

## REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):  <u>Not Applicable</u>	
Describe how source is to be removed:  <u>See attached report.</u>	
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.:  <u>Approximately 225 cubic yards of impacted soil were excavated and hauled to an offsite approved waste facility. See attached report.</u>	

State of Colorado  
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado  
(303) 894-2100 Fax 894-2109

## REMEDIAL WORKPLAN (CONT.)

Tracking Number: \_\_\_\_\_

Name of Operator: Magpie Operating IncOGCC Operator No: 52530

Received Date: \_\_\_\_\_

Well Name & No: Warnecke 1Facility Name & No.: Warnecke Skim Pit 218853

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 to a depth of 8 feet below ground surface.

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 pit will be backfilled with clean soil. The ground surface will be contoured to match the existing grade. The backfilled area will be reseeded when the production pad is abandoned in the future.

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 sidewalls and bottoms indicate benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH)-gasoline range organics, TPH-diesel range organics, and Table 910-1 Metals were in compliance with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels.

As the oil skim pit has been remediated to meet cleanup levels specified in COGCC Table 910-1, Magpie is requesting authorization to backfill the compliant pit. 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 225 cubic yards of impacted soil were excavated and hauled to an offsite approved waste facility. Manifests are included in the attached report.

## IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	<u>3/1/2014</u>	Date Site Investigation Completed:	<u>4/23/2014</u>	Remediation Plan Submitted:	<u>3/4/2013</u>
Remediation Start Date:	<u>3/1/2014</u>	Anticipated Completion Date:	<u>6/4/2013</u>	Actual Completion Date:	<u>4/23/2014</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Ryan WarnerSigned: Ryan WarnerTitle: VPDate: 6/12/14

OGCC Approved: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



June 11, 2014

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

**RE: Magpie Operating Inc.  
Warnecke #1  
API 075-05621  
Facility ID: 218853  
SESE Sec. 30 T8N R53W  
Logan County, Colorado**

Dear Mr. Axelson:

LT Environmental, Inc. (LTE), under the direction of Magpie Operating, Inc. (Magpie), conducted environmental remediation and sampling activities following the identification of petroleum hydrocarbon impacted soil during oil skim pit closure activities at the Warnecke 1 Tank Battery (Site). The Site is located 400 feet north of the intersection of County Road (CR) 27 and Highway 14 in Logan County, Colorado (Figure 1).

On February 27, 2014, LTE personnel were present to sample the bottom and sidewalls of an excavation of the skim pit conducted by Magpie at the Site. Discrete soil samples were collected from the oil skim pit sidewalls (NSWS@4', ESWS@4', SSWS@4', and WSWS@4') and oil skim pit bottom (BS@8') as illustrated in Figure 2. Soil samples were submitted to Summit Scientific, Inc. (Summit) of Golden, 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, sodium adsorption ratio (SAR) by SW846 3050B/6010C, pH by EPA 9045D, and electrical conductivity (EC) reported as specific conductance by EPA 120.1.

Soil analytical results from the initial site investigation sampling indicated that all confirmation samples except the west sidewall sample (WSWS@4') were below the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels for BTEX, TPH-DRO and TPH-GRO. While all samples exceeded the COGCC Concentration Level for pH with values ranging from 9.03 to 9.57, none of the samples exceeded the COGCC values for SAR or EC and the samples were collected from below the anticipated root zone. Additionally, sample WSWS@4' exceeded the COGCC Concentration Level for TPH-DRO. As such, an additional 3 feet of the west wall of the excavation was removed and resampled on April 7, 2014. The resampled west sidewall (W01@4') was below the Colorado Oil and Gas Conservation Commission (COGCC) Concentration Levels for all of the analyzed constituents.



Approximately 225 cubic yards of impacted soil was removed from the former oil skim pit and loaded into trucks. The soil was disposed of at North Weld Landfill located in Ault, Colorado. Manifests can be found in Attachment 2.

Soil analytical results from the initial site investigation sampling indicated that the sidewall samples and bottom samples were below the Colorado Oil and Gas Conservation Commission (COGCC) Concentration Levels for all of the analyzed constituents.

As soil in the former oil skim pit has now been remediated to achieve COGCC cleanup goals, Magpie is requesting site closure and authorization to backfill the compliant pit.

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 "E. Lang".

Eric Lang, P.G.  
Project Geologist

A handwritten signature in black ink, appearing to read "John D. Peterson".

John D. Peterson, P.G.  
Executive Vice President

Attachments:

Figure 1 - Site Location Map

Figure 2 - Site Map

Table 1 - Soil Analytical Results – Oil Skim Pit

Attachment 1 - Laboratory Analytical Reports

Attachment 2 – Waste Manifests

## FIGURES





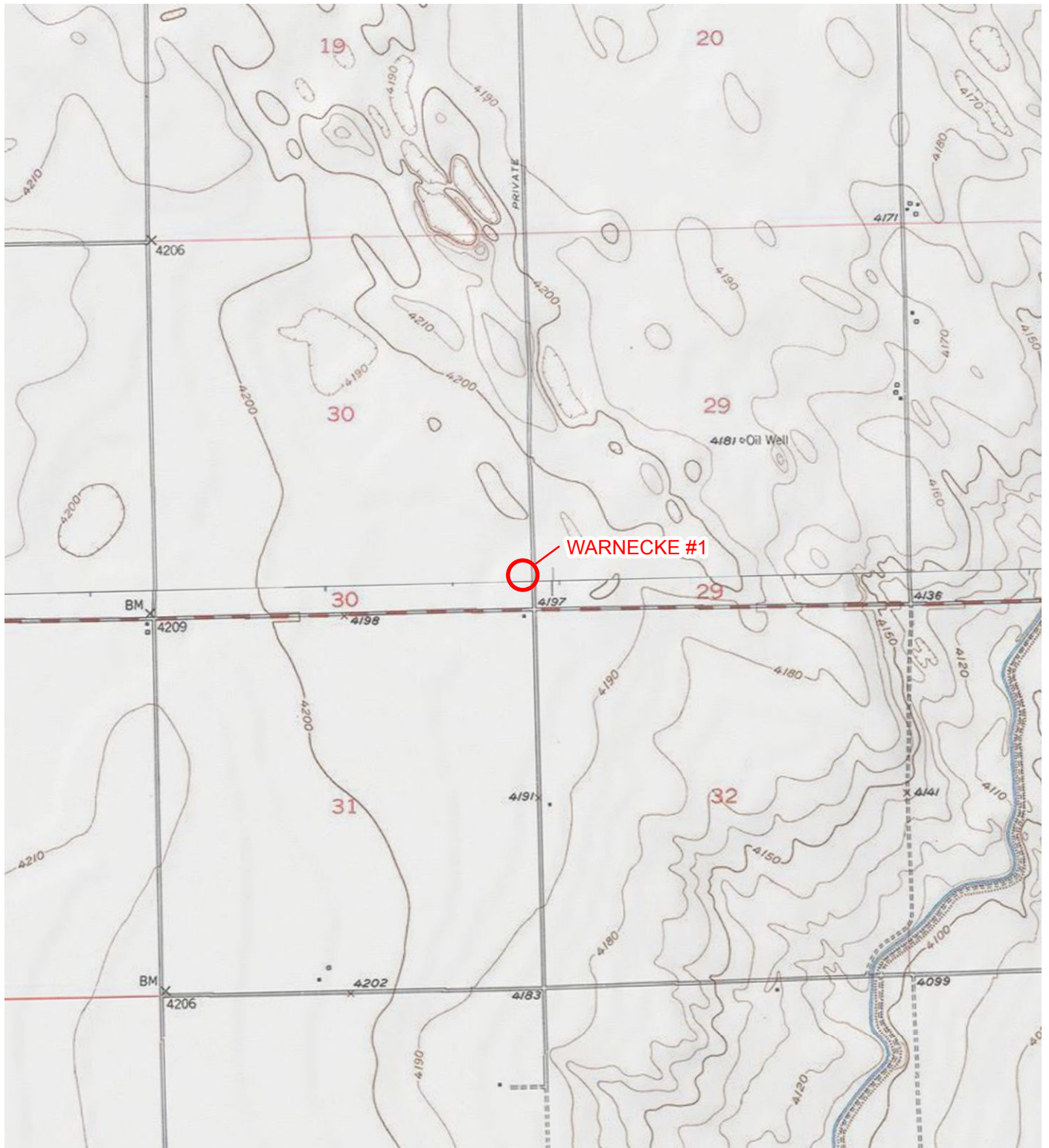


IMAGE COURTESY OF ESRI/USGS

# LEGEND

○ SITE LOCATION

0 2,000 4,000  
Feet

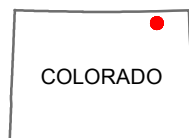


FIGURE 1  
SITE LOCATION MAP  
WARNECKE #1  
LOGAN COUNTY, COLORADO



MAGPIE OPERATING INC



# LEGEND

- SOIL SAMPLE
- BACKGROUND SOIL SAMPLE
- - - EXCAVATION EXTENT

IMAGE COURTESY OF ESRI

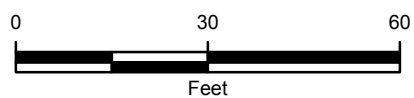


FIGURE 2  
REMEDIAL EXCAVATION MAP  
WARNECKE #1  
LOGAN COUNTY, COLORADO

MAGPIE OPERATING INC



## TABLES



**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**WARNECKE #1 OIL SKIM PIT**  
**LOGAN COUNTY, COLORADO**  
**MAGPIE OPERATING INC.**

PARAMETER	COGCC Table 910-1 Concentration Levels	UNITS	Sample ID: NSWS @4'	Sample ID: SSWS @4'	Sample ID: WSWS @4'	Sample ID: W01 @4'	Sample ID: ESWS @4'	Sample ID: BS @8'
Sample Date			2/27/2014	2/27/2014	2/27/2014	4/17/2014	2/27/2014	2/27/2014
Sample Area			North Wall	South Wall	West Wall	West Wall	East Wall	Bottom
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Benzene	0.17	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	85	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	100	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Xylenes	175	mg/kg	<0.002	<0.002	0.01	<0.002	<0.002	<0.002
TPH-DRO	--	mg/kg	<50	<50	<b>2040</b>	<50	<50	<50
TVPH-GRO	--	mg/kg	<50	<50	<50	<50	<50	<50
TPH Total	500	mg/kg	<50	<50	<b>2040</b>	<50	<50	<50
EC	4.0	mmhos/cm	0.789	0.338	0.402	0.687	0.490	0.619
pH	6 - 9	SU	<b>9.4</b>	<b>9.25</b>	<b>9.03</b>	<b>9.53</b>	<b>9.57</b>	<b>9.06</b>
SAR	12	unitless	8.28	1.92	2.53	4.04	3.26	4.11

**NOTES:**

mg/kg - milligrams per kilogram

TPH-DRO - total extractable petroleum hydrocarbon-diesel range organics

TVPH-GRO - total volume petroleum hydrocarbon-gasolene range organics

mmhos/cm - millimhos per centimeter in saturated paste extract

EC - electrical conductivity

SAR - sodium adsorption ratio

SU - standard units

< - less than the stated reporting limit

**BOLD** - indicates result exceeds the Colorado Oil and Gas Conservation  
Commission (COGCC) Table 910-1



**ATTACHMENT 1**  
**LABORATORY ANALYTICAL REPORTS**





April 23, 2014

LT Environmental, Inc.

Eric Lang

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Warnecke #1

Project Number - 052514001

Attached are your analytical results for Warnecke #1 received by Origins Laboratory, Inc. April 17, 2014. This project is associated with Origins project number X404167-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Eric Lang  
Project Number: 052514001  
Project: Warnecke #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01 @ 4'	X404167-01	Soil	April 17, 2014 13:00	04/17/2014 15:25

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: 052514001  
Project: Warnecke #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X404167

Client: LTE

Client Project ID: Warnecke #1

Checklist Completed by: Jeff Smith

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

Date/time completed: 4/17/14 15:40

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 125.3 °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Sampled Some Dry</u>
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			<u>PH</u>
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	<u>Soil</u>
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	<u>Soil</u>
Additional Comments (if any): <u>Added Project Name to COC from Information on Sample</u>				
Container: <u>4/17/14 Jeff Smith</u>				

<sup>(1)</sup>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)

4/18/14 1340  
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: 052514001  
Project: Warnecke #1

W01 @ 4'  
4/17/2014 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X404167-01 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4D17010	04/17/2014	04/17/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130			"	"	"
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.687		mmhos/cm	1	4D17009	04/17/2014	04/18/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4D17007	04/17/2014	04/17/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	77.9 %	59-131			"	"	"
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## pH in Soil by EPA 9045D

pH	9.53		pH Units	1	4D17008	04/17/2014	04/18/2014
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## SAR Metals by SW846 3050B/6010C

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: Warnecke #1

W01 @ 4'  
4/17/2014 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
X404167-01 (Soil)

**SAR Metals by SW846 3050B/6010C**

Calcium	47700	29.8	mg/kg dry	1	1381978	04/22/2014	04/23/2014
Magnesium	5850	35.7	"	"	"	"	"
Sodium	3510	29.8	"	"	"	"	"

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	4.04		none	1	1382500		04/23/2014
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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: 052514001  
Project: Warnecke #1

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 4D17010 - EPA 5030 (soil)

Matrix Spike (4D17010-MS1)		Source: X404172-01			Prepared: 04/17/2014 Analyzed: 04/17/2014					
Benzene	0.1	0.002	mg/kg	0.100	ND	99.7	71.8-126			
Toluene	0.1	0.002	"	0.100	ND	99.4	65.1-130			
Ethylbenzene	0.1	0.002	"	0.100	ND	99.5	62.2-130			
m,p-Xylene	0.2	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.1	0.002	"	0.100	ND	96.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Eric Lang  
Project Number: 052514001  
Project: Warnecke #1

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 4D17010 - EPA 5030 (soil)

Matrix Spike Dup (4D17010-MSD1)		Source: X404172-01			Prepared: 04/17/2014 Analyzed: 04/17/2014					
Benzene	0.1	0.002	mg/kg	0.100	ND	103	71.8-126	3.49	11.3	
Toluene	0.1	0.002	"	0.100	ND	104	65.1-130	4.31	15.4	
Ethylbenzene	0.1	0.002	"	0.100	ND	105	62.2-130	5.36	19.6	
m,p-Xylene	0.2	0.004	"	0.200	ND	111	46.5-137	6.00	19.2	
o-Xylene	0.1	0.002	"	0.100	ND	101	54.2-134	4.70	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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: 052514001  
Project: Warnecke #1

**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 4D17007 - EPA 3580**

**Blank (4D17007-BLK1)**

Prepared: 04/17/2014 Analyzed: 04/17/2014

Gasoline (C6-C10)	ND	50.0	mg/kg
Diesel (C10-C28)	ND	50.0	"

Surrogate: o-Terphenyl	54		g	50.0	108	59-131
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**LCS (4D17007-BS1)**

Prepared: 04/17/2014 Analyzed: 04/17/2014

Gasoline (C6-C10)	1090	50.0	mg/kg	1000	109	59-133
Diesel (C10-C28)	941	50.0	"	1000	94.1	64-121

Surrogate: o-Terphenyl	48		g	50.0	96.9	59-131
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**Matrix Spike (4D17007-MS1)**

Source: X404164-01

Prepared: 04/17/2014 Analyzed: 04/17/2014

Gasoline (C6-C10)	1160	50.0	mg/kg	1000	ND	116	57-139
Diesel (C10-C28)	991	50.0	"	1000	23.1	96.8	53-125

Surrogate: o-Terphenyl	50		g	50.0	101	59-131
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**Matrix Spike Dup (4D17007-MSD1)**

Source: X404164-01

Prepared: 04/17/2014 Analyzed: 04/17/2014

Gasoline (C6-C10)	1190	50.0	mg/kg	1000	ND	119	57-139	2.56	20
Diesel (C10-C28)	1020	50.0	"	1000	23.1	100	53-125	3.35	20

Surrogate: o-Terphenyl	51		g	50.0	101	59-131
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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: 052514001  
Project: Warnecke #1

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 4D17008 - NO PREP										
Duplicate (4D17008-DUP1)		Source: X404167-01			Prepared: 04/17/2014 Analyzed: 04/18/2014					
pH	9.52		pH Units		9.53			0.0735	25	
Batch 4D17009 - NO PREP										
Blank (4D17009-BLK1)		Prepared: 04/17/2014 Analyzed: 04/18/2014								
Specific Conductance (EC)	0.00210		mmhos/cm							
Duplicate (4D17009-DUP1)		Source: X404167-01			Prepared: 04/17/2014 Analyzed: 04/18/2014					
Specific Conductance (EC)	0.730		mmhos/cm		0.687			6.07	10	

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: 052514001  
Project: Warnecke #1

**SAR Metals by SW846 3050B/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1381978 - SW846 3050B										
<b>BLANK (1203072991-BLK)</b>					Prepared: 04/22/2014 Analyzed: 04/23/2014					
Calcium	ND	24.3	mg/kg				-			U
Magnesium	ND	29.1	"				-			U
Sodium	ND	24.3	"				-			U
<b>LCS (1203072992-BKS)</b>					Prepared: 04/22/2014 Analyzed: 04/23/2014					
Magnesium	507	29.8	mg/kg	497		102	80-120			
Calcium	484	24.9	"	497		97.4	80-120			
Sodium	504	24.9	"	497		101	80-120			
<b>DUP (1203072993 D)</b>					<b>Source: X404167-01</b>		Prepared: 04/22/2014 Analyzed: 04/23/2014			
Magnesium	6000	35.4	mg/kg dry		5850		0-20	2.46	20	
Sodium	3560	29.5	"		3510		0-20	1.25	20	
Calcium	46300	29.5	"		47700		0-20	2.88	20	
<b>MS (1203072994 S)</b>					<b>Source: X404167-01</b>		Prepared: 04/22/2014 Analyzed: 04/23/2014			
Magnesium	7510	34.6	mg/kg dry	576	5850	288	75-125			
Sodium	4070	28.8	"	576	3510	96.5	75-125			
Calcium	45300	28.8	"	576	47700	0	75-125			

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: 052514001  
Project: Warnecke #1

### Notes and Definitions

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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



March 07, 2014

LT Environmental, Inc.

Eric Lang

4600 West 60th Avenue

Arvada

CO 80003

Project Name - 052514001

Project Number - 052514001

Attached are your analytical results for 052514001 received by Origins Laboratory, Inc. February 27, 2014. This project is associated with Origins project number X402275-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSWS @ 4'	X402275-01	Soil	February 27, 2014 13:30	02/27/2014 17:00
SSWS @ 4'	X402275-02	Soil	February 27, 2014 13:35	02/27/2014 17:00
WSWS @ 4'	X402275-03	Soil	February 27, 2014 13:40	02/27/2014 17:00
ESWS @ 4'	X402275-04	Soil	February 27, 2014 13:45	02/27/2014 17:00
BS @ 8'	X402275-05	Soil	February 27, 2014 13:50	02/27/2014 17:00
SP-1	X402275-07	Soil	February 27, 2014 14:10	02/27/2014 17:00

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: 052514001

Project: 052514001

www.originslaboratory.com

X400275

ORIGINS  
LABORATORY, INC

page 1 of 1

Client: LT ENV  
 Project Manager/Send Report To: elang@ltenv.com  
 Address: 4600 W 60th Ave  
 Email Address: 11  
 Arvada  
 Project Name/Number: 052514001  
 Telephone Number: 303.720.235.3016  
 Samples Collected By: ERIC LANG

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
NSWse 4'	2/27/14	1330	1	X					X		TPH/DRO BTEX HAPs SAR	1
SSWse 4'		1335	1								X	2
WSWse 4'		1340	1								X	3
ESWse 4'		1345	1								X	4
BS 8'		1350	1								X	5
BG#1		1400	1								X	6
SP-1		1410	1								X	7
SP-2		1420	2								X	8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
	2/27/14	1700		2/27/14	1700	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Comments:

Date Results Needed:

Origins Laboratory, Inc.

Noelle Doyle Mathis, President

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: 052514001  
Project: 052514001

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X402275

Client: LTE

Client Project ID: 052514001

Checklist Completed by: Joelle Smith

Shipped Via: Pick Up  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/27/14 17:18

Airbill #: NA

Matrix(s) Received: (Check all that apply) ☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1 / 5.4 °C

Thermometer ID: TC02

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			PH
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	Seal
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	Seal
Additional Comments (if any):				

<sup>(1)</sup> 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: 052514001

Project: 052514001

## NSWS @ 4'

2/27/2014 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X402275-01 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

96.3 % 70-130

" " "

Surrogate: Toluene-d8

103 % 70-130

" " "

Surrogate: 4-Bromofluorobenzene

106 % 70-130

" " "

### Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.789	mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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### GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl

83.0 % 59-131

" " "

### pH in Soil by EPA 9045D

pH	9.40	pH Units	1	4C04010	03/04/2014	03/05/2014
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### SAR Metals by SW846 3050B/6010C

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: 052514001  
Project: 052514001

**NSWS @ 4'****2/27/2014 1:30:00PM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**GEL Laboratories, LLC**  
**X402275-01 (Soil)****SAR Metals by SW846 3050B/6010C**

Calcium	12700	29.7	mg/kg dry	1	1369735	03/04/2014	03/04/2014
Magnesium	4240	35.7	"	"	"	"	"
Sodium	4210	29.7	"	"	"	"	"

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	8.28		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

SSWS @ 4'

2/27/2014 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X402275-02 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.338		mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	84.7 %	59-131			"	"	"
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## pH in Soil by EPA 9045D

pH	9.25		pH Units	1	4C04010	03/04/2014	03/05/2014
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## SAR Metals by SW846 3050B/6010C

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

SSWS @ 4'  
2/27/2014 1:35:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X402275-02 (Soil)

### SAR Metals by SW846 3050B/6010C

Calcium	15600	26.6	mg/kg dry	1	1369735	03/04/2014	03/04/2014
Magnesium	3060	32.0	"	"	"	"	"
Sodium	1000	26.6	"	"	"	"	"

### Sodium Adsorption Ratio

Sodium Adsorption Ratio	1.92		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

WSWS @ 4'

2/27/2014 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X402275-03 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.01	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.402		mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	100	mg/kg	2	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	2040	100	"	"	"	"	"

Surrogate: o-Terphenyl	88.0 %	59-131			"	"	"
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## pH in Soil by EPA 9045D

pH	9.03		pH Units	1	4C04010	03/04/2014	03/05/2014
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## SAR Metals by SW846 3050B/6010C

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

WSWS @ 4'  
2/27/2014 1:40:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X402275-03 (Soil)

### SAR Metals by SW846 3050B/6010C

Calcium	18100	28.0	mg/kg dry	1	1369735	03/04/2014	03/04/2014
Magnesium	3800	33.6	"	"	"	"	"
Sodium	1430	28.0	"	"	"	"	"

### Sodium Adsorption Ratio

Sodium Adsorption Ratio	2.53		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

ESWS @ 4'

2/27/2014 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X402275-04 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

95.2 % 70-130

" " "

Surrogate: Toluene-d8

100 % 70-130

" " "

Surrogate: 4-Bromofluorobenzene

102 % 70-130

" " "

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.490	mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl

84.0 % 59-131

" " "

## pH in Soil by EPA 9045D

pH	9.57	pH Units	1	4C04010	03/04/2014	03/05/2014
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## SAR Metals by SW846 3050B/6010C

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: 052514001  
Project: 052514001

**ESWS @ 4'****2/27/2014 1:45:00PM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**GEL Laboratories, LLC**  
**X402275-04 (Soil)****SAR Metals by SW846 3050B/6010C**

Calcium	19000	27.8	mg/kg dry	1	1369735	03/04/2014	03/04/2014
Magnesium	3870	33.4	"	"	"	"	"
Sodium	1890	27.8	"	"	"	"	"

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	3.26		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

BS @ 8'

2/27/2014 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
X402275-05 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.619		mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	86.7 %	59-131			"	"	"
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## pH in Soil by EPA 9045D

pH	9.06		pH Units	1	4C04010	03/04/2014	03/05/2014
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## SAR Metals by SW846 3050B/6010C

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: 052514001  
Project: 052514001

BS @ 8'

2/27/2014 1:50:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**GEL Laboratories, LLC**  
X402275-05 (Soil)

**SAR Metals by SW846 3050B/6010C**

Calcium	20100	29.6	mg/kg dry	1	1369735	03/04/2014	03/04/2014
Magnesium	4950	35.6	"	"	"	"	"
Sodium	2510	29.6	"	"	"	"	"

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	4.11		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

SP-1

2/27/2014 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X402275-07 (Soil)

## BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	4C04008	03/04/2014	03/06/2014
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.007	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

96.7 % 70-130

"

"

"

Surrogate: Toluene-d8

102 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

106 % 70-130

"

"

"

## Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.844		mmhos/cm	1	4C04011	03/04/2014	03/05/2014
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## GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	56.7	50.0	mg/kg	1	4C04009	03/04/2014	03/06/2014
Diesel (C10-C28)	739	50.0	"	"	"	"	"

Surrogate: o-Terphenyl

102 % 59-131

"

"

"

## pH in Soil by EPA 9045D

pH	8.89		pH Units	1	4C04010	03/04/2014	03/05/2014
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## SAR Metals by SW846 3050B/6010C

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

## SP-1

2/27/2014 2:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X402275-07 (Soil)

**SAR Metals by SW846 3050B/6010C**

Calcium	29800	30.4	mg/kg dry	1	1370091	03/05/2014	03/05/2014
Magnesium	5170	36.5	"	"	"	"	"
Sodium	3290	30.4	"	"	"	"	"

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	4.63		none	1	1370974		03/06/2014
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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: 052514001

Project: 052514001

## 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 4C04008 - EPA 5030 (soil)

Blank (4C04008-BLK1)

Prepared: 03/04/2014 Analyzed: 03/05/2014

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5	105		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Eric Lang  
Project Number: 052514001  
Project: 052514001

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
Batch 4C04008 - EPA 5030 (soil)										
LCS (4C04008-BS1)					Prepared: 03/04/2014 Analyzed: 03/05/2014					
Benzene	0.1	0.002	mg/kg	0.100		113	77.1-124			
Toluene	0.1	0.002	"	0.100		112	74.5-128			
Ethylbenzene	0.1	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.2	0.004	"	0.200		109	76.6-124			
o-Xylene	0.1	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4C04008 - EPA 5030 (soil)

Matrix Spike (4C04008-MS1)		Source: X402283-02			Prepared: 03/04/2014 Analyzed: 03/05/2014					
Benzene	0.1	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.1	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.1	0.002	"	0.100	ND	99.7	62.2-130			
m,p-Xylene	0.2	0.004	"	0.200	ND	98.2	46.5-137			
o-Xylene	0.1	0.002	"	0.100	ND	99.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Eric Lang  
Project Number: 052514001  
Project: 052514001

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 4C04008 - EPA 5030 (soil)

Matrix Spike Dup (4C04008-MSD1)		Source: X402283-02			Prepared: 03/04/2014 Analyzed: 03/05/2014					
Benzene	0.1	0.002	mg/kg	0.100	ND	105	71.8-126	0.285	11.3	
Toluene	0.1	0.002	"	0.100	ND	106	65.1-130	2.28	15.4	
Ethylbenzene	0.1	0.002	"	0.100	ND	103	62.2-130	2.94	19.6	
m,p-Xylene	0.2	0.004	"	0.200	ND	102	46.5-137	4.23	19.2	
o-Xylene	0.1	0.002	"	0.100	ND	104	54.2-134	4.27	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Eric Lang

Project Number: 052514001

Project: 052514001

## 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 4C04009 - EPA 3580

##### Blank (4C04009-BLK1)

Prepared: 03/04/2014 Analyzed: 03/06/2014

Gasoline (C6-C10) ND 50.0 mg/kg

Diesel (C10-C28) ND 50.0 "

Surrogate: o-Terphenyl 50 g 50.0 99.5 59-131

##### LCS (4C04009-BS1)

Prepared: 03/04/2014 Analyzed: 03/06/2014

Gasoline (C6-C10) 940 50.0 mg/kg 1000 94.0 59-133

Diesel (C10-C28) 928 50.0 " 1000 92.8 64-121

Surrogate: o-Terphenyl 41 g 50.0 82.6 59-131

##### Matrix Spike (4C04009-MS1)

Source: X402283-02

Prepared: 03/04/2014 Analyzed: 03/06/2014

Gasoline (C6-C10) 1120 50.0 mg/kg 1000 33.7 109 57-139

Diesel (C10-C28) 1010 50.0 " 1000 20.7 98.7 53-125

Surrogate: o-Terphenyl 44 g 50.0 87.5 59-131

##### Matrix Spike Dup (4C04009-MSD1)

Source: X402283-02

Prepared: 03/04/2014 Analyzed: 03/06/2014

Gasoline (C6-C10) 1390 50.0 mg/kg 1000 33.7 136 57-139 21.5 20 QM-07

Diesel (C10-C28) 1250 50.0 " 1000 20.7 123 53-125 21.7 20 QM-07

Surrogate: o-Terphenyl 54 g 50.0 108 59-131

Origins Laboratory, Inc.

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

Eric Lang  
Project Number: 052514001  
Project: 052514001

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 4C04010 - NO PREP										
Duplicate (4C04010-DUP1)		Source: X402275-01			Prepared: 03/04/2014 Analyzed: 03/05/2014					
pH	9.44		pH Units		9.40			0.414	0.1	
Batch 4C04011 - NO PREP										
Blank (4C04011-BLK1)		Prepared: 03/04/2014 Analyzed: 03/05/2014								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (4C04011-DUP1)		Source: X402275-02			Prepared: 03/04/2014 Analyzed: 03/05/2014					
Specific Conductance (EC)	0.327		mmhos/cm		0.338			3.31	10	

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

**SAR Metals by SW846 3050B/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1369735 - SW846 3050B</b>										
<b>BLANK (1203043420-BLK)</b>					Prepared: 03/04/2014 Analyzed: 03/04/2014					
Calcium	ND	25.0	mg/kg		0		-			U
Magnesium	ND	30.0	"		0		-			U
Sodium	ND	25.0	"		0		-			U
<b>LCS (1203043421-BKS)</b>					Prepared: 03/04/2014 Analyzed: 03/04/2014					
Calcium	507	25.0	mg/kg	499	0	102	80-120			
Magnesium	518	29.9	"	499	0	104	80-120			
Sodium	497	25.0	"	499	0	99.6	80-120			
<b>DUP (1203043422 D)</b>					<b>Source: 343785007</b>		Prepared: 03/04/2014 Analyzed: 03/04/2014			
Calcium	8590	30.7	mg/kg dry		8840		0-20	2.79	20	
Magnesium	2900	36.8	"		3030		0-20	4.35	20	
Sodium	1160	30.7	"		1190		0-20	2.36	20	
<b>MS (1203043423 S)</b>					<b>Source: 343785007</b>		Prepared: 03/04/2014 Analyzed: 03/04/2014			
Calcium	9170	28.0	mg/kg dry	561	8840	60.1	75-125			
Magnesium	4120	33.6	"	561	3030	195	75-125			
Sodium	1610	28.0	"	561	1190	74.7	75-125			
<b>PS (1203045222 S)</b>					<b>Source: 343785007</b>		Prepared: 03/04/2014 Analyzed: 03/04/2014			
Sodium	18.7	0.309	mg/kg dry	5000	1190	91.1	80-120			
<b>Batch 1370091 - SW846 3050B</b>										
<b>BLANK (1203044320-BLK)</b>					Prepared: 03/05/2014 Analyzed: 03/05/2014					
Calcium	ND	24.2	mg/kg		0		-			U
Magnesium	ND	29.0	"		0		-			U
Sodium	ND	24.2	"		0		-			U

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

**SAR Metals by SW846 3050B/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1370091 - SW846 3050B										
LCS (1203044321-BKS)					Prepared: 03/05/2014 Analyzed: 03/05/2014					
Magnesium	536	29.1	mg/kg	485	0	110	80-120			
Sodium	507	24.3	"	485	0	105	80-120			
Calcium	512	24.3	"	485	0	106	80-120			
DUP (1203044322 D)					Source: X402275-07		Prepared: 03/05/2014 Analyzed: 03/05/2014			
Magnesium	5080	36.6	mg/kg dry		5170		0-20	1.88	20	
Sodium	3100	30.5	"		3290		0-20	5.93	20	
Calcium	28800	30.5	"		29800		0-20	3.49	20	
MS (1203044323 S)					Source: X402275-07		Prepared: 03/05/2014 Analyzed: 03/05/2014			
Calcium	32100	29.8	mg/kg dry	596	29800	392	75-125			
Magnesium	7130	35.8	"	596	5170	329	75-125			
Sodium	3700	29.8	"	596	3290	69.2	75-125			

Origins Laboratory, Inc.



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

Eric Lang  
Project Number: 052514001  
Project: 052514001

### Notes and Definitions

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

**ATTACHMENT 2**  
**WASTE MANIFESTS**







North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original **9169723**  
Ticket# 1340521

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# 75 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049784 Grid  
Destination  
PO  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 10:21:48	Scale1	SS		Tare	71920 lb
Out	04/23/2014 11:11:36	Scale2	SS		Net	28380 lb
					Tons	43540 lb
						21.77

Comments



**WASTE MANAGEMENT**

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons 100		21.77	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Total Tax  
Total Ticket

Driver's Signature

403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original **9162010**  
Ticket# 1340713

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# 75  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049790 Grid  
Destination  
PO  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

Volume

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 15:39:05	Scale1	RL		Tare	81220 lb
Out	04/23/2014 15:39:05		RL		Net	28380 lb
					Tons	52840 lb
						26.42

Comments



Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		26.42	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

9161897  
Original  
Ticket# 1340520

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# 7 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049785 Grid  
Destination  
PO  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 10:19:28	Scale1	ss		Tare	72240 lb
Out	04/23/2014 10:19:28		ss		Net	34060 lb
					Tons	38180 lb
						19.09

Comments



Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		19.09	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N







North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original 9161981  
Ticket# 1340660

Customer Name MAGPIEOPERATINGINC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# 7 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049788 Grid  
Destination  
PO  
Profile 112945CO (CRUDE OIL IN SOIL)  
Generator 125-MAGPIEOPERATING MAGPIE OPERATINGINC

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 14:23:28	Scale1	SS		Tare	73280 lb
Out	04/23/2014 14:23:28		SS		Net	34060 lb
					Tons	39220 lb
						19.61

Comments



Product	LD%	Dty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		19.61	Tons				
2 FUEL-Fuel Surchang 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N







North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original 9169715  
Ticket# 1340535

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# 24 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# am Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049786 Grid  
Destination  
PD  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 10:35:33	Scale1	SS		Tare	45000 lb
Out	04/23/2014 10:58:38	Scale2	SS		Net	22420 lb
					Tons	23580 lb
						11.79

Comments



Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons 100		11.79	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

JOHN S SQUOUS

Total Tax  
Total Ticket

Driver's Signature

403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original 9162084  
Ticket# 1340827

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/24/2014 Vehicle# 75 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049797 Grid  
Destination  
PO  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/24/2014 09:21:10	Scale1	SS		Tare	83200 lb
Out	04/24/2014 09:21:10		SS		Net	28380 lb
					Tons	54820 lb
						27.41

Comments



WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		27.41	Tons				
2 FUEL-Fuel Surcharge 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Taxes & Fees  
Total Ticket

Driver's Signature

403WM-N







North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original **9162085**  
Ticket# 1340828

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/24/2014 Vehicle# 7 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049792 Grid  
Destination  
PO  
Profile 112945CO (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/24/2014 09:23:46	Scale1	SS		Tare	74080 lb
Out	04/24/2014 09:23:46		SS		Net	34060 lb
					Tons	40020 lb
						20.01

Comments



Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		20.01	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80510  
Ph: (970) 686-2800

Original **9162082**  
Ticket# 1340825

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/24/2014 Vehicle# K10 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 059791 Grid  
Destination  
PO  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/24/2014 09:17:10	Scale1	SS		Tare	43680 lb
Out	04/24/2014 09:17:10		SS		Net	24360 lb
					Tons	19320 lb
						9.66

Comments



**WASTE MANAGEMENT**

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons	100	9.66	Tons				
2 FUEL-Fuel Surcharg	100		%				
3 EVF-L-Standard Env	100	1	Load				
4 RCR-P-Regulatory C	100		%				

*Joan* *Sc*

Taxes & Fees  
Total Ticket

iver's Signature  
403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

9161982  
Original  
Ticket# 1340661

Customer Name MAGPIEOPERATINGINC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# K10  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049789 Grid  
Destination  
PO  
Profile 112945CO (CRUDE OIL IN SOIL)  
Generator 125-MAGPIEOPERATING MAGPIE OPERATINGINC

Volume

Time  
In 04/23/2014 14:26:45  
Out 04/23/2014 14:26:45

Scale  
Scale1

Operator  
SS  
SS

Inbound

Gross  
Tare  
Net  
Tons

46520 lb  
24360 lb  
22160 lb  
11.08

Comments



WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons 100		11.08	Tons				
2 FUEL-Fuel Surcharg 100			%				
3 EVF-L-Standard Env 100		1	Load				
4 RCR-P-Regulatory C 100			%				

*Jason*

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N





North Weld Landfill  
40000 WCR 25  
AULT, CO, 80610  
Ph: (970) 686-2800

Original 9161895  
Ticket# 1340518

Customer Name MAGPIE OPERATING INC MAGPIE OPE Carrier DR TRUCKING  
Ticket Date 04/23/2014 Vehicle# K10 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check  
Route Billing # 0010377  
State Waste Code Gen EPA ID  
Manifest 049787 Grid  
Destination  
PG  
Profile 11294500 (CRUDE OIL IN SOIL)  
Generator 125-MAGPIE OPERATING MAGPIE OPERATING INC

	Time	Scale	Operator	Inbound	Gross	
In	04/23/2014 10:16:08	Scale1	ss		Tare	41880 lb
Out	04/23/2014 10:16:08		ss		Net	24360 lb
					Tons	17520 lb
						8.76

Comments



WASTE MANAGEMENT

Product	LD%	Qty	UCM	Rate	Fee	Amount	Origin
1 Cont Soil Pet-Tons	100	8.76	Tons				
2 FUEL-Fuel Surcharg	100		%				
3 EVF-L-Standard Env	100	1	Load				
4 RCR-P-Regulatory C	100		%				

JOSE ESPINOZA

Taxes & Fees  
Total Ticket

Driver's Signature  
403WM-N