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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ARP Production Company, LLC	Contact Randy L. Madison
Address 309 Silver St., Raton, NM 87740	Telephone No. Office 575-445-6706 Cell 575-420-1120
Facility Name A-575	Facility Type Gas Well

Surface Owner Vermejo Park Ranch	Mineral Owner APR Production Company, LLC	API No. 30-007-20984

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	27	32N	19E	1510	North	368	West	Colfax

OIL CONS. DIV DIST. 3

OCT 29 2014

Latitude N 36.982806 **Longitude** W 104.91675

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 7 Barrels	Volume Recovered: 0
Source of Release Wet tubing and hose connection coming loose	Date and Hour of Occurrence 8-12-14 @ 1323	Date and Hour of Discovery 8-12-14 @ 1323
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Daniel Sanchez	
By Whom? Randy Madison	Date and Hour 8-12-14 @ 1340	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tubing was being tripped out of the well during maintenance. This was wet tubing with a hose connecting it to a water truck. The connection came loose letting the water spill on to the ground. The hose was connected back together and they will monitor the connections in the future.

Describe Area Affected and Cleanup Action Taken.*
Not able to recover any of the water. The area had a soil characterization done and there is no remarkable contamination to report. The area requires no remediation. See the attached Soil Characterization.

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

Signature: Randy L. Madison	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: Randy L. Madison		
Title: EHS Specialist	Approval Date: 11/4/14	Expiration Date:
E-mail Address: rmadison@atlasenergy.com	Conditions of Approval:	Attached ☐
Date: 10/23/14 Phone: 575-445-6706		

* Attach Additional Sheets If Necessary

#NCS 1430836937

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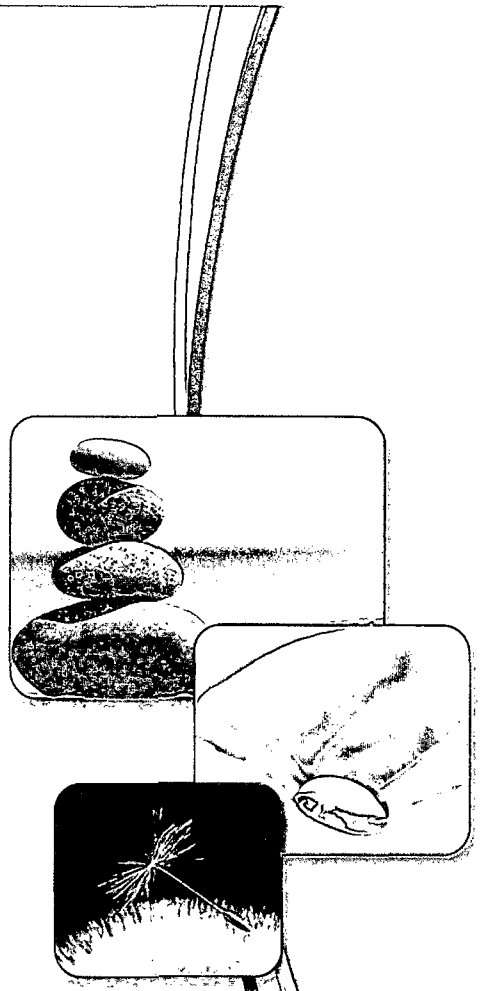

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-60687-1
Client Project/Site: Soil Hydrocarbon Characterization

For:
Atlas Energy
309 Silver Street
Raton, New Mexico 87740

Attn: Mr. Randy Madison

Dilea R. Bindel

Authorized for release by:
10/15/2014 10:32:02 AM

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

Table of Contents

Job ID: 280-60687-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: Atlas Energy
Project: Soil Hydrocarbon Characterization
Report Number: 280-60687-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/02/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.9 C.

GASOLINE RANGE ORGANICS (GRO) - METHOD 8015C

Gasoline Range Organics (GRO)-C6-C10 was detected in method blank MB 280-247591/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Surrogate a,a,a-Trifluorotoluene was recovered above the QC control limits in sample D-67.1-6 (280-60687-3. This anomaly is due to obvious matrix interferences; therefore, corrective action is deemed unnecessary. Sample data should be considered biased high.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 280-247618. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

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

VOLATILE ORGANIC COMPOUNDS (GC) - METHOD 8021B

Benzene was detected in method blank MB 280-247593/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

DIESEL RANGE ORGANICS - METHOD 8015C

Matrix spikes were not requested and therefore, were not reported. The acceptable LCS analyte recoveries provide evidence that the laboratory is performing the method within acceptable guidelines.

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

GENERAL CHEMISTRY

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

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Atlas Energy
Project/Site: Soil Hydrocarbon Characterization

TestAmerica Job ID: 280-60687-1

Client Sample ID: A-575.1-6 — Lab Sample ID: 280-60687-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	1.1	B	0.95	0.26	mg/Kg	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	6.2		3.9	0.66	mg/Kg	1		8015C	Total/NA
Chloride	8.5	J	29	1.9	mg/Kg	1		9056	Soluble

Client Sample ID: B-26.1-6 — Lab Sample ID: 280-60687-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	1.7	B	1.0	0.27	mg/Kg	1		8015C	Total/NA
m-Xylene & p-Xylene	12	J	49	5.9	ug/Kg	1		8021B	Total/NA
Diesel Range Organics [C10-C28]	28		3.9	0.66	mg/Kg	1		8015C	Total/NA
Chloride	700		29	1.9	mg/Kg	1		9056	Soluble

Client Sample ID: D-67.1-6 — Lab Sample ID: 280-60687-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	4.9	B	0.98	0.26	mg/Kg	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	13		3.9	0.66	mg/Kg	1		8015C	Total/NA
Chloride	38		28	1.9	mg/Kg	1		9056	Soluble

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Atlas Energy
Project/Site: Soil Hydrocarbon Characterization

TestAmerica Job ID: 280-60687-1

Method	Method Description	Protocol	Laboratory
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL DEN
8021B	Volatile Organic Compounds (GC)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL DEN
9056	Chloride	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Atlas Energy
Project/Site: Soil Hydrocarbon Characterization

TestAmerica Job ID: 280-60687-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-60687-1	A-575.1-6	Solid	10/01/14 09:55	10/02/14 09:20
280-60687-2	B-26.1-6	Solid	10/01/14 09:56	10/02/14 09:20
280-60687-3	D-67.1-6	Solid	10/01/14 09:57	10/02/14 09:20

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: A-575.1-6 — **Lab Sample ID: 280-60687-1**
Date Collected: 10/01/14 09:55 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1.1	B	0.95	0.26	mg/Kg		10/01/14 09:55	10/13/14 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*77 - 123*	*10/01/14 09:55*	*10/13/14 15:46*	*1*

Client Sample ID: B-26.1-6 — **Lab Sample ID: 280-60687-2**
Date Collected: 10/01/14 09:56 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1.7	B	1.0	0.27	mg/Kg		10/01/14 09:56	10/13/14 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*77 - 123*	*10/01/14 09:56*	*10/13/14 16:19*	*1*

Client Sample ID: D-67.1-6 — **Lab Sample ID: 280-60687-3**
Date Collected: 10/01/14 09:57 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	4.9	B	0.98	0.26	mg/Kg		10/01/14 09:57	10/13/14 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*135*	*X*	*77 - 123*	*10/01/14 09:57*	*10/13/14 16:51*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: A-575.1-6 — **Lab Sample ID: 280-60687-1**
Date Collected: 10/01/14 09:55 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		50	7.0	ug/Kg		10/13/14 11:43	10/13/14 17:36	1
Ethylbenzene	ND		50	7.5	ug/Kg		10/13/14 11:43	10/13/14 17:36	1
Toluene	ND		50	8.8	ug/Kg		10/13/14 11:43	10/13/14 17:36	1
m-Xylene & p-Xylene	ND		50	6.1	ug/Kg		10/13/14 11:43	10/13/14 17:36	1
o-Xylene	ND		50	3.3	ug/Kg		10/13/14 11:43	10/13/14 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*82 - 115*	*10/13/14 11:43*	*10/13/14 17:36*	*1*

Client Sample ID: B-26.1-6 — **Lab Sample ID: 280-60687-2**
Date Collected: 10/01/14 09:56 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		49	6.8	ug/Kg		10/13/14 11:43	10/13/14 19:04	1
Ethylbenzene	ND		49	7.3	ug/Kg		10/13/14 11:43	10/13/14 19:04	1
Toluene	ND		49	8.6	ug/Kg		10/13/14 11:43	10/13/14 19:04	1
m-Xylene & p-Xylene	**12**	**J**	49	5.9	ug/Kg		10/13/14 11:43	10/13/14 19:04	1
o-Xylene	ND		49	3.2	ug/Kg		10/13/14 11:43	10/13/14 19:04	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*91*		*82 - 115*	*10/13/14 11:43*	*10/13/14 19:04*	*1*

Client Sample ID: D-67.1-6 — **Lab Sample ID: 280-60687-3**
Date Collected: 10/01/14 09:57 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		50	7.0	ug/Kg		10/13/14 11:43	10/13/14 19:34	1
Ethylbenzene	ND		50	7.5	ug/Kg		10/13/14 11:43	10/13/14 19:34	1
Toluene	ND		50	8.8	ug/Kg		10/13/14 11:43	10/13/14 19:34	1
m-Xylene & p-Xylene	ND		50	6.1	ug/Kg		10/13/14 11:43	10/13/14 19:34	1
o-Xylene	ND		50	3.3	ug/Kg		10/13/14 11:43	10/13/14 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*90*		*82 - 115*	*10/13/14 11:43*	*10/13/14 19:34*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: A-575.1-6 — **Lab Sample ID: 280-60687-1**
Date Collected: 10/01/14 09:55 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.2**		3.9	0.66	mg/Kg		10/06/14 18:30	10/09/14 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*68*		*49 - 115*	*10/06/14 18:30*	*10/09/14 13:27*	*1*

Client Sample ID: B-26.1-6 — **Lab Sample ID: 280-60687-2**
Date Collected: 10/01/14 09:56 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**28**		3.9	0.66	mg/Kg		10/06/14 18:30	10/09/14 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*63*		*49 - 115*	*10/06/14 18:30*	*10/09/14 13:03*	*1*

Client Sample ID: D-67.1-6 — **Lab Sample ID: 280-60687-3**
Date Collected: 10/01/14 09:57 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		3.9	0.66	mg/Kg		10/06/14 18:30	10/09/14 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*56*		*49 - 115*	*10/06/14 18:30*	*10/09/14 12:39*	*1*

General Chemistry - Soluble

Client Sample ID: A-575.1-6 — **Lab Sample ID: 280-60687-1**
Date Collected: 10/01/14 09:55 — **Matrix: Solid**
Date Received: 10/02/14 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.5**	**J**	29	1.9	mg/Kg			10/08/14 18:59	1

General Chemistry - Soluble

Client Sample ID: B-26.1-6
Date Collected: 10/01/14 09:56
Date Received: 10/02/14 09:20

Lab Sample ID: 280-60687-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		29	1.9	mg/Kg			10/08/14 19:16	1

Client Sample ID: D-67.1-6
Date Collected: 10/01/14 09:57
Date Received: 10/02/14 09:20

Lab Sample ID: 280-60687-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38		28	1.9	mg/Kg			10/08/14 19:34	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 280-247591/1-A
Matrix: Solid
Analysis Batch: 247618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.547	J	1.2	0.33	mg/Kg		10/13/14 11:39	10/13/14 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*77 - 123*	*10/13/14 11:39*	*10/13/14 14:09*	*1*

Lab Sample ID: LCS 280-247591/2-A
Matrix: Solid
Analysis Batch: 247618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	5.50	6.37		mg/Kg		116	85 - 153

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*93*		*77 - 123*

Lab Sample ID: LCSD 280-247591/3-A
Matrix: Solid
Analysis Batch: 247618

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 247591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	5.50	6.51		mg/Kg		118	85 - 153	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*77 - 123*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 280-247593/1-A
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.50	J	50	7.0	ug/Kg		10/13/14 11:43	10/13/14 16:08	1
Ethylbenzene	ND		50	7.5	ug/Kg		10/13/14 11:43	10/13/14 16:08	1
Toluene	ND		50	8.8	ug/Kg		10/13/14 11:43	10/13/14 16:08	1
m-Xylene & p-Xylene	ND		50	6.1	ug/Kg		10/13/14 11:43	10/13/14 16:08	1
o-Xylene	ND		50	3.3	ug/Kg		10/13/14 11:43	10/13/14 16:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*82 - 115*	*10/13/14 11:43*	*10/13/14 16:08*	*1*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 280-247593/2-A
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1000	1130		ug/Kg		113	85 - 115
Ethylbenzene	1000	1070		ug/Kg		107	85 - 115
Toluene	1000	1080		ug/Kg		108	85 - 115
m-Xylene & p-Xylene	2000	2160		ug/Kg		108	85 - 115
o-Xylene	1000	1090		ug/Kg		109	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*82 - 115*

Lab Sample ID: LCSD 280-247593/3-A
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 247593

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1000	1060		ug/Kg		106	85 - 115	6	15
Ethylbenzene	1000	1020		ug/Kg		102	85 - 115	6	17
Toluene	1000	1020		ug/Kg		102	85 - 115	6	15
m-Xylene & p-Xylene	2000	2050		ug/Kg		103	85 - 115	5	15
o-Xylene	1000	1030		ug/Kg		103	85 - 115	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*82 - 115*

Lab Sample ID: 280-60687-1 MS
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: A-575.1-6
Prep Type: Total/NA
Prep Batch: 247593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		977	1010		ug/Kg		104	85 - 115
Ethylbenzene	ND		977	972		ug/Kg		99	85 - 115
Toluene	ND		977	981		ug/Kg		100	85 - 115
m-Xylene & p-Xylene	8.7		1950	1950		ug/Kg		100	85 - 115
o-Xylene	ND		977	981		ug/Kg		100	85 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*93*		*82 - 115*

Lab Sample ID: 280-60687-1 MSD
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: A-575.1-6
Prep Type: Total/NA
Prep Batch: 247593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		993	1020		ug/Kg		103	85 - 115	1	15
Ethylbenzene	ND		993	983		ug/Kg		99	85 - 115	1	17
Toluene	ND		993	987		ug/Kg		99	85 - 115	1	15
m-Xylene & p-Xylene	8.7		1990	1970		ug/Kg		99	85 - 115	1	15
o-Xylene	ND		993	993		ug/Kg		100	85 - 115	1	15

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 280-60687-1 MSD
Matrix: Solid
Analysis Batch: 247638

Client Sample ID: A-575.1-6
Prep Type: Total/NA
Prep Batch: 247593

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*92*		*82 - 115*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 280-246421/1-A
Matrix: Solid
Analysis Batch: 246910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		3.7	0.62	mg/Kg		10/06/14 18:30	10/09/14 10:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*49 - 115*	*10/06/14 18:30*	*10/09/14 10:37*	*1*

Lab Sample ID: LCS 280-246421/2-A
Matrix: Solid
Analysis Batch: 246910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	64.1	59.4		mg/Kg		93	53 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*74*		*49 - 115*

Method: 9056 - Chloride

Lab Sample ID: MRL 280-246865/3
Matrix: Solid
Analysis Batch: 246865

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.50	2.49	J	mg/L		99	50 - 150

Lab Sample ID: MB 280-246967/3-A
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		30	2.0	mg/Kg			10/08/14 18:41	1

Lab Sample ID: LCS 280-246967/1-A
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1000	969		mg/Kg		97	90 - 110

Method: 9056 - Chloride (Continued)

Lab Sample ID: LCSD 280-246967/2-A
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1000	967		mg/Kg		97	90 - 110	0	10

Lab Sample ID: 280-60687-3 MS
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: D-67.1-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	38		240	261		mg/Kg		93	80 - 120

Lab Sample ID: 280-60687-3 MSD
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: D-67.1-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	38		240	260		mg/Kg		93	80 - 120	0	20

Lab Sample ID: 280-60687-3 DU
Matrix: Solid
Analysis Batch: 246865

Client Sample ID: D-67.1-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	38		37.7		mg/Kg		0.1	10

GC VOA

Prep Batch: 247591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	5035	
280-60687-2	B-26.1-6	Total/NA	Solid	5035	
280-60687-3	D-67.1-6	Total/NA	Solid	5035	
LCS 280-247591/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-247591/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 280-247591/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 247593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	5030B	
280-60687-1 MS	A-575.1-6	Total/NA	Solid	5030B	
280-60687-1 MSD	A-575.1-6	Total/NA	Solid	5030B	
280-60687-2	B-26.1-6	Total/NA	Solid	5030B	
280-60687-3	D-67.1-6	Total/NA	Solid	5030B	
LCS 280-247593/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-247593/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 280-247593/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 247618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	8015C	247591
280-60687-2	B-26.1-6	Total/NA	Solid	8015C	247591
280-60687-3	D-67.1-6	Total/NA	Solid	8015C	247591
LCS 280-247591/2-A	Lab Control Sample	Total/NA	Solid	8015C	247591
LCSD 280-247591/3-A	Lab Control Sample Dup	Total/NA	Solid	8015C	247591
MB 280-247591/1-A	Method Blank	Total/NA	Solid	8015C	247591

Analysis Batch: 247638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	8021B	247593
280-60687-1 MS	A-575.1-6	Total/NA	Solid	8021B	247593
280-60687-1 MSD	A-575.1-6	Total/NA	Solid	8021B	247593
280-60687-2	B-26.1-6	Total/NA	Solid	8021B	247593
280-60687-3	D-67.1-6	Total/NA	Solid	8021B	247593
LCS 280-247593/2-A	Lab Control Sample	Total/NA	Solid	8021B	247593
LCSD 280-247593/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	247593
MB 280-247593/1-A	Method Blank	Total/NA	Solid	8021B	247593

GC Semi VOA

Prep Batch: 246421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	3546	
280-60687-2	B-26.1-6	Total/NA	Solid	3546	
280-60687-3	D-67.1-6	Total/NA	Solid	3546	
LCS 280-246421/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-246421/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 246910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Total/NA	Solid	8015C	246421
280-60687-2	B-26.1-6	Total/NA	Solid	8015C	246421
280-60687-3	D-67.1-6	Total/NA	Solid	8015C	246421
LCS 280-246421/2-A	Lab Control Sample	Total/NA	Solid	8015C	246421
MB 280-246421/1-A	Method Blank	Total/NA	Solid	8015C	246421

General Chemistry

Analysis Batch: 246865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Soluble	Solid	9056	246967
280-60687-2	B-26.1-6	Soluble	Solid	9056	246967
280-60687-3	D-67.1-6	Soluble	Solid	9056	246967
280-60687-3 DU	D-67.1-6	Soluble	Solid	9056	246967
280-60687-3 MS	D-67.1-6	Soluble	Solid	9056	246967
280-60687-3 MSD	D-67.1-6	Soluble	Solid	9056	246967
LCS 280-246967/1-A	Lab Control Sample	Soluble	Solid	9056	246967
LCSD 280-246967/2-A	Lab Control Sample Dup	Soluble	Solid	9056	246967
MB 280-246967/3-A	Method Blank	Soluble	Solid	9056	246967
MRL 280-246865/3	Lab Control Sample	Total/NA	Solid	9056	

Leach Batch: 246967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-60687-1	A-575.1-6	Soluble	Solid	DI Leach	
280-60687-2	B-26.1-6	Soluble	Solid	DI Leach	
280-60687-3	D-67.1-6	Soluble	Solid	DI Leach	
280-60687-3 DU	D-67.1-6	Soluble	Solid	DI Leach	
280-60687-3 MS	D-67.1-6	Soluble	Solid	DI Leach	
280-60687-3 MSD	D-67.1-6	Soluble	Solid	DI Leach	
LCS 280-246967/1-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 280-246967/2-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
MB 280-246967/3-A	Method Blank	Soluble	Solid	DI Leach	

Lab Chronicle

Client: Atlas Energy
Project/Site: Soil Hydrocarbon Characterization

TestAmerica Job ID: 280-60687-1

Client Sample ID: A-575.1-6

Lab Sample ID: 280-60687-1

Date Collected: 10/01/14 09:55
Matrix: Solid
Date Received: 10/02/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.31 g	5 mL	247591	10/01/14 09:55	TEM	TAL DEN
Total/NA	Analysis	8015C		1	6.31 g	5 mL	247618	10/13/14 15:46	TEM	TAL DEN
Total/NA	Prep	5030B			9.96 g	10 mL	247593	10/13/14 11:43	TEM	TAL DEN
Total/NA	Analysis	8021B		1	9.96 g	10 mL	247638	10/13/14 17:36	TEM	TAL DEN
Total/NA	Prep	3546			30.8 g	1 mL	246421	10/06/14 18:30	EJP	TAL DEN
Total/NA	Analysis	8015C		1	30.8 g	1 mL	246910	10/09/14 13:27	TDJ	TAL DEN
Soluble	Leach	DI Leach			10.38 g	100 mL	246967	10/08/14 15:11	TLP	TAL DEN
Soluble	Analysis	9056		1	5 mL	5 mL	246865	10/08/14 18:59	DAW	TAL DEN

Client Sample ID: B-26.1-6

Lab Sample ID: 280-60687-2

Date Collected: 10/01/14 09:56
Matrix: Solid
Date Received: 10/02/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.993 g	5 mL	247591	10/01/14 09:56	TEM	TAL DEN
Total/NA	Analysis	8015C		1	5.993 g	5 mL	247618	10/13/14 16:19	TEM	TAL DEN
Total/NA	Prep	5030B			10.25 g	10 mL	247593	10/13/14 11:43	TEM	TAL DEN
Total/NA	Analysis	8021B		1	10.25 g	10 mL	247638	10/13/14 19:04	TEM	TAL DEN
Total/NA	Prep	3546			30.8 g	1 mL	246421	10/06/14 18:30	EJP	TAL DEN
Total/NA	Analysis	8015C		1	30.8 g	1 mL	246910	10/09/14 13:03	TDJ	TAL DEN
Soluble	Leach	DI Leach			10.29 g	100 mL	246967	10/08/14 15:11	TLP	TAL DEN
Soluble	Analysis	9056		1	5 mL	5 mL	246865	10/08/14 19:16	DAW	TAL DEN

Client Sample ID: D-67.1-6

Lab Sample ID: 280-60687-3

Date Collected: 10/01/14 09:57
Matrix: Solid
Date Received: 10/02/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.133 g	5 mL	247591	10/01/14 09:57	TEM	TAL DEN
Total/NA	Analysis	8015C		1	6.133 g	5 mL	247618	10/13/14 16:51	TEM	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	247593	10/13/14 11:43	TEM	TAL DEN
Total/NA	Analysis	8021B		1	10.00 g	10 mL	247638	10/13/14 19:34	TEM	TAL DEN
Total/NA	Prep	3546			30.7 g	1 mL	246421	10/06/14 18:30	EJP	TAL DEN
Total/NA	Analysis	8015C		1	30.7 g	1 mL	246910	10/09/14 12:39	TDJ	TAL DEN
Soluble	Leach	DI Leach			10.58 g	100 mL	246967	10/08/14 15:11	TLP	TAL DEN
Soluble	Analysis	9056		1	5 mL	5 mL	246865	10/08/14 19:34	DAW	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Login Sample Receipt Checklist

Client: Atlas Energy

Job Number: 280-60687-1

Login Number: 60687
List Number: 1
Creator: Conquest, Tyler W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; Sample D-67.2 not designated for specific analyses
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

280-60687 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Randy Madison	Lab PM: Bindel, DiLea R	Carrier Tracking No(s):	COC No: 280-36492-14804.1
Client Contact: Mr. Randy Madison	Phone: 575-445-6706	E-Mail: dilea.bindel@testamericainc.com		Page:
Company: Atlas Energy				Job #:
Address: 309 Silver Street	Due Date Requested:			
City: Raton	TAT Requested (days): Standard TAT			
State, Zip: NM, 87740				
Phone: 575-445-6706(Tel)	PO #: Purchase Order not required			
Email: rmadison@atlasenergy.com	WO #:			
Project Name: Soil Hydrocarbon Characterization	Project #: 28012438			
Site: Raton, NM	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX (GC) Solis for Aromatics only	8015C_TVPH - Gasoline Range Organics (GC)	8015C_TEPH - Diesel Range Organics (GC)	9056_Chloride, Ion Chromatography	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
A-575.1	10/1/14	0955	G	Solid				X				
A-575.2	10/1/14	0956	G	Solid				X				
A-575.3	10/1/14	0957	G	Solid			X					
A-575.4	10/1/14	0958	G	Solid			X					
A-575.5	10/1/14	1000	G	Solid					X			
A575.6	10/1/14	1003	G	Solid						X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Randy Madison	10/1/14 1600	Atlas		10/2/14 0920	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

10/15/2014

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Randy L. Madison	Lab PM: Bindel, DiLea R	Carrier Tracking No(s):	COC No: 280-36492-14804.1
Client Contact: Mr. Randy Madison	Phone: 575-445-6706	E-Mail: dilea.bindel@testamericainc.com		Page:
Company: Atlas Energy				Job #:
Address: 309 Silver Street	Due Date Requested:			
City: Raton	TAT Requested (days): Standard TAT			
State, Zip: NM, 87740				
Phone: 575-445-6706(Tel)	PO #: Purchase Order not required			
Email: rmadison@atlasenergy.com	WO #:			
Project Name: Soil Hydrocarbon Characterization	Project #: 28012438			
Site: Raton, NM	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX (GC) Soils for Aromatics only	8015C_TVPH - Gasoline Range Organics (GC)	8015C_TEPH - Diesel Range Organics (GC)	9056_Chloride, Ion Chromatography	Total Number of Containers	Special Instructions/Note:
			Preservation Codes:				N	N	N	N		
B-26.1	10/1/14	1308	G	Solid				X				
B-26.2	10/1/14	1310	G	Solid				X				
B-26.3	10/1/14	1312	G	Solid			X					
B-26.4	10/1/14	1314	G	Solid			X					
B-26.5	10/1/14	1315	G	Solid					X			
B-26.6	10/1/14	1317	G	Solid					X			
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Randy L Madison	10/1/14 @ 1600	Atlas		10/2/14 0926	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

5.9+0 IR6 10/2/14
Transfered: TL

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Rand Madison	Lab PM: Bindel, DiLea R	Carrier Tracking No(s):	COC No: 280-36492-14804.1
Client Contact: Mr. Randy Madison	Phone: 575-445-6720	E-Mail: dilea.bindel@testamericainc.com		Page:
Company: Atlas Energy				Job #:
Address: 309 Silver Street	Due Date Requested:			
City: Raton	TAT Requested (days): Standard TAT			
State, Zip: NM, 87740				
Phone: 575-445-6706(Tel)	PO #: Purchase Order not required			
Email: rmadison@atlasenergy.com	WO #:			
Project Name: Soil Hydrocarbon Characterization	Project #: 28012438			
Site: Raton, NM	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX (GC) Soils for Aromatics only	8015C_TVPH - Gasoline Range Organics (GC)	8015C_TEPH - Diesel Range Organics (GC)	9056_Chloride, Ion Chromatography	Total Number of Containers	Special Instructions/Note:
			Preservation Code:									
D-67.1	10/1/14	1203	G	Solid				X				
D-67.2	10/1/14	1204	G	Solid								
D-67.3	10/1/14	1207	G	Solid			X					
D-67.4	10/1/14	1208	G	Solid			X					
D-67.5	10/1/14	1209	G	Solid					X			
D-67.6	10/1/14	1210	G	Solid						X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 10/1/14 1600	Company: AtlasEnergy	Received by:	Date/Time: 10/2/14-0920	Company: TAL
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: