

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Matador Resources	Contact Casey Snow
Address 500 N Main St Suite 1 Roswell NM 88201	Telephone No. (972) 371-5439
Facility Name Young Deep Unit 23	Facility Type Oil

Surface Owner	Mineral Owner Federal	API No. 30-025-29896
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	9	18S	32E	2310	S	1980	E	Lea

Latitude 32.761017 Longitude -32° 8'46.05"N Longitude -103.7693566

NATURE OF RELEASE

Type of Release Oil	Volume of Release ~10 bbls	Volume Recovered ~7bbls
Source of Release Equalizer on tank not open	Date and Hour of Occurrence	Date and Hour of Discovery 9-29-16 8am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jason Thibodeaux	
By Whom? Rickie Anguiano	Date and Hour Sep. 29, 2016 8am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

APPROVED
By Olivia Yu at 3:21 pm, Mar 27, 2018

Describe Cause of Problem and Remedial Action Taken.*
Equalizer line was shut. Oil could not flow to next production tank,

Describe Area Affected and Cleanup Action Taken.*
~10 BBLS of oil spilled into containment. ~7 BBLS recovered.
Soil in containment will be removed and replaced.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Casey Snow	Approved by Environmental Specialist: 	
Title: Manager Regulatory, Environmental, & Safety	Approval Date: 3/27/2018	Expiration Date: xx/xx/xxxx
E-mail Address: csnow@matadorresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 2, 2017, 2017 Phone: (972) 371-5439		

* Attach Additional Sheets If Necessary

1RP-4474



Detailed Site and Sample Map
 Young Deep Unit 23- Matador Resources
 S.9 T18S R32E ,New Mexico

Figure 2

Date Saved: 7/6/2017	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
Copyright 2015 Souder, Miller & Associates - All Rights Reserved				

Drawn	<u>Lucas Middleton</u>
Checked	_____
Approved	_____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains

Table 1: Summary of Laboratory Analyses

Analytical Report- 1706A46/17 08486	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
1706A46/ 1708486- 001	L1	6/14/2017, 8/3/17	3'	<0.093	<0.023	<4.6	14	<30
1706A46/ 1708486- 002	L2	6/14/2017, 8/3/17	3'	<0.093	<0.024	<4.8	220	<30
1706A46/ 1708486- 003	L3	6/14/2017, 8/3/17	3'	<0.092	<0.023	<4.6	<9.6	<30
1706A46/ 1708486- 004	L4	6/14/2017, 8/3/17	3'	<0.097	<0.024	<4.8	55	70
1706A46/ 1708486- 005	L5	6/14/2017, 8/3/17	3'	<0.094	<0.024	<4.7	150	45



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 30, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Young Deep Unit II

OrderNo.: 1706A46

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1706A46

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: Young Deep Unit II

Lab Order: 1706A46

Lab ID: 1706A46-001 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L1 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:24:57 PM	32536
----------	----	----	--	-------	----	----------------------	-------

Lab ID: 1706A46-002 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L2 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:37:22 PM	32536
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Lab ID: 1706A46-003 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L3 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:49:46 PM	32536
----------	----	----	--	-------	----	----------------------	-------

Lab ID: 1706A46-004 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L4 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	70	30		mg/Kg	20	6/28/2017 3:02:11 PM	32536
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Lab ID: 1706A46-005 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	45	30		mg/Kg	20	6/28/2017 3:14:35 PM	32536
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A46

30-Jun-17

Client: Souder, Miller & Associates

Project: Young Deep Unit II

Sample ID	MB-32536	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	32536	RunNo:	43854					
Prep Date:	6/28/2017	Analysis Date:	6/28/2017	SeqNo:	1383063	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32536	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	32536	RunNo:	43854					
Prep Date:	6/28/2017	Analysis Date:	6/28/2017	SeqNo:	1383064	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Client Name: SMA-CARLSBAD

Work Order Number: 1706A46

RcptNo: 1

Received By: Sophia Campuzano 6/20/2017 10:15:00 AM *Sophia Campuzano*

Completed By: Richie Eriacho 6/20/2017 11:03:24 AM *[Signature]*

Reviewed By: *Re [Signature]* 6/20/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: _____
 (Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
 (If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.0	Good				



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Standard Rush

Project Name:

Young Deep Unit 23

Project #:

201 S. Halagueno

Phone #: 575-689-5351

email or Fax#: lucas.middleton@soudermiller.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Sampler: LCM

On Ice: Yes No

Sample Temperature: *5.4*

Date Time Matrix Sample Request ID

8-3-17 11:00 50.1 L1-3
L2-3
L3-3
L4-3
L5-3

Container Type and #

A02
↓
↓
↓

Preservative Type

HEAL No.

1708486
-001
-002
-003
-004
-005

Analysis Request

<input checked="" type="checkbox"/>	BTEX + MTBE + TMBs (8021)	<input checked="" type="checkbox"/>	BTEX + MTBE + TPH (Gas only)	<input type="checkbox"/>	TPH Method 8015B (Gas/Diesel)	<input type="checkbox"/>	TPH (Method 418.1)	<input checked="" type="checkbox"/>	EDB (Method 504.1)	<input type="checkbox"/>	8310 (PNA or PAH)	<input type="checkbox"/>	R CRA 8 Metals	<input type="checkbox"/>	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	<input type="checkbox"/>	8081 Pesticides / 8082 PCB's	<input type="checkbox"/>	8260B (VOA)	<input type="checkbox"/>	8270 (Semi-VOA)	<input type="checkbox"/>	Air Bubbles (Y or N)
-------------------------------------	---------------------------	-------------------------------------	------------------------------	--------------------------	-------------------------------	--------------------------	--------------------	-------------------------------------	--------------------	--------------------------	-------------------	--------------------------	----------------	--------------------------	--	--------------------------	------------------------------	--------------------------	-------------	--------------------------	-----------------	--------------------------	----------------------

Remarks: *Verified Sample ID for -003 with Lucas. mg - 08/08/17*

Received by: *[Signature]* Date: *8/18/17* Time: *0840*

Relinquished by: *[Signature]* Date: *8-8-17* Time: *9:00*

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Courier



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 30, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Young Deep Unit II

OrderNo.: 1706A46

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1706A46

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: Young Deep Unit II

Lab Order: 1706A46

Lab ID: 1706A46-001 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L1 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:24:57 PM	32536
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Lab ID: 1706A46-002 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L2 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:37:22 PM	32536
----------	----	----	--	-------	----	----------------------	-------

Lab ID: 1706A46-003 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L3 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/28/2017 2:49:46 PM	32536
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Lab ID: 1706A46-004 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L4 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	70	30		mg/Kg	20	6/28/2017 3:02:11 PM	32536
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Lab ID: 1706A46-005 **Collection Date:** 6/14/2017 2:00:00 PM

Client Sample ID: L5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	45	30		mg/Kg	20	6/28/2017 3:14:35 PM	32536
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A46

30-Jun-17

Client: Souder, Miller & Associates

Project: Young Deep Unit II

Sample ID	MB-32536	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	32536	RunNo:	43854					
Prep Date:	6/28/2017	Analysis Date:	6/28/2017	SeqNo:	1383063	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32536	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	32536	RunNo:	43854					
Prep Date:	6/28/2017	Analysis Date:	6/28/2017	SeqNo:	1383064	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
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| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1706A46

RcptNo: 1

Received By: Sophia Campuzano 6/20/2017 10:15:00 AM *Sophia Campuzano*

Completed By: Richie Eriacho 6/20/2017 11:03:24 AM *[Signature]*

Reviewed By: *Re [Signature]* 6/20/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: _____
 (Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
 (If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.0	Good				

Chain-of-Custody Record

Client: SMA - Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other

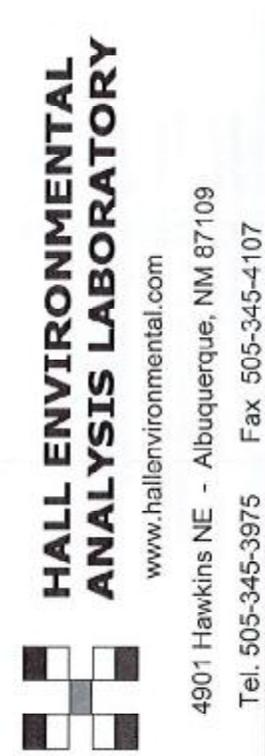
EDD (Type)

Turn-Around Time: 7 day Turn
 Standard Rush
 Project Name: Young Deep Unit II
 Project #: ~

Project Manager: Austin Weyant
 Sampler: WCM
 On Ice: Yes No
 Sample Temperature: 6.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
06/14/17	12:00	Soil				1706A44
			L1			-001
			L2			-002
			L3			-003
			L4			-004
			L5			-005
			L6			

Date: _____ Relinquished by: _____
 Date: 6/17/17 Relinquished by: [Signature]
 Date: 6/17/17 Relinquished by: [Signature]
 Date: 6/19/17 Time: 0900
 Received by: [Signature] Date: 06/20/17 Time: 1015



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Analysis Request	Remarks
BTEX + MTBE + TMBs (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	

If necessary, samples turned to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 15, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Young Deep Unit 23

OrderNo.: 1708486

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/8/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708486

Date Reported: 8/15/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L1-3

Project: Young Deep Unit 23

Collection Date: 8/3/2017 11:00:00 AM

Lab ID: 1708486-001

Matrix: SOIL

Received Date: 8/8/2017 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	8/14/2017	33322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	8/10/2017 7:49:29 PM	33273
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2017 7:49:29 PM	33273
Surr: DNOP	92.7	70-130		%Rec	1	8/10/2017 7:49:29 PM	33273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Surr: BFB	84.4	54-150		%Rec	1	8/9/2017 11:28:22 PM	33248
EPA METHOD 8021B: VOLATILES							Analyst: AG
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Benzene	ND	0.023		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Toluene	ND	0.046		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Xylenes, Total	ND	0.093		mg/Kg	1	8/9/2017 11:28:22 PM	33248
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/9/2017 11:28:22 PM	33248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708486

Date Reported: 8/15/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-3

Project: Young Deep Unit 23

Collection Date: 8/3/2017 11:00:00 AM

Lab ID: 1708486-002

Matrix: SOIL

Received Date: 8/8/2017 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	610	19		mg/Kg	1	8/14/2017	33322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	220	9.7		mg/Kg	1	8/11/2017 10:48:07 AM	33273
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	8/11/2017 10:48:07 AM	33273
Surr: DNOP	98.3	70-130		%Rec	1	8/11/2017 10:48:07 AM	33273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Surr: BFB	90.6	54-150		%Rec	1	8/9/2017 11:52:15 PM	33248
EPA METHOD 8021B: VOLATILES							Analyst: AG
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Benzene	ND	0.024		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Toluene	ND	0.048		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Xylenes, Total	ND	0.096		mg/Kg	1	8/9/2017 11:52:15 PM	33248
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/9/2017 11:52:15 PM	33248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708486

Date Reported: 8/15/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L3-3

Project: Young Deep Unit 23

Collection Date: 8/3/2017 11:00:00 AM

Lab ID: 1708486-003

Matrix: SOIL

Received Date: 8/8/2017 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	22	19		mg/Kg	1	8/14/2017	33322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2017 8:34:04 PM	33273
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2017 8:34:04 PM	33273
Surr: DNOP	92.1	70-130		%Rec	1	8/10/2017 8:34:04 PM	33273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Surr: BFB	85.8	54-150		%Rec	1	8/10/2017 12:16:05 AM	33248
EPA METHOD 8021B: VOLATILES							Analyst: AG
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Benzene	ND	0.023		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Toluene	ND	0.046		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Ethylbenzene	ND	0.046		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Xylenes, Total	ND	0.092		mg/Kg	1	8/10/2017 12:16:05 AM	33248
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	8/10/2017 12:16:05 AM	33248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL	Practical Quantitative Limit	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708486

Date Reported: 8/15/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L4-3

Project: Young Deep Unit 23

Collection Date: 8/3/2017 11:00:00 AM

Lab ID: 1708486-004

Matrix: SOIL

Received Date: 8/8/2017 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	220	20		mg/Kg	1	8/14/2017	33322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	55	9.6		mg/Kg	1	8/11/2017 11:12:58 AM	33273
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	8/11/2017 11:12:58 AM	33273
Surr: DNOP	84.1	70-130		%Rec	1	8/11/2017 11:12:58 AM	33273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Surr: BFB	84.9	54-150		%Rec	1	8/10/2017 12:39:58 AM	33248
EPA METHOD 8021B: VOLATILES							Analyst: AG
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Benzene	ND	0.024		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Toluene	ND	0.048		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2017 12:39:58 AM	33248
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/10/2017 12:39:58 AM	33248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL	Practical Quantitative Limit	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708486

Date Reported: 8/15/2017

CLIENT: Souder, Miller & Associates

Client Sample ID: L5-3

Project: Young Deep Unit 23

Collection Date: 8/3/2017 11:00:00 AM

Lab ID: 1708486-005

Matrix: SOIL

Received Date: 8/8/2017 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	240	19		mg/Kg	1	8/14/2017	33322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	150	9.7		mg/Kg	1	8/14/2017 10:13:24 AM	33273
Motor Oil Range Organics (MRO)	390	48		mg/Kg	1	8/14/2017 10:13:24 AM	33273
Surr: DNOP	100	70-130		%Rec	1	8/14/2017 10:13:24 AM	33273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Surr: BFB	88.3	54-150		%Rec	1	8/10/2017 1:03:54 AM	33248
EPA METHOD 8021B: VOLATILES							Analyst: AG
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Benzene	ND	0.024		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Toluene	ND	0.047		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Ethylbenzene	ND	0.047		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Xylenes, Total	ND	0.094		mg/Kg	1	8/10/2017 1:03:54 AM	33248
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/10/2017 1:03:54 AM	33248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL	Practical Quantitative Limit	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708486

15-Aug-17

Client: Souder, Miller & Associates

Project: Young Deep Unit 23

Sample ID MB-33322	SampType: MBLK		TestCode: EPA Method 418.1: TPH							
Client ID: PBS	Batch ID: 33322		RunNo: 44941							
Prep Date: 8/11/2017	Analysis Date: 8/14/2017		SeqNo: 1421414	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID LCS-33322	SampType: LCS		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS	Batch ID: 33322		RunNo: 44941							
Prep Date: 8/11/2017	Analysis Date: 8/14/2017		SeqNo: 1421415	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	98	20	100.0	0	98.0	80.5	126			

Sample ID LCSD-33322	SampType: LCSD		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS02	Batch ID: 33322		RunNo: 44941							
Prep Date: 8/11/2017	Analysis Date: 8/14/2017		SeqNo: 1421416	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	100	80.5	126	2.20	20	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708486

15-Aug-17

Client: Souder, Miller & Associates

Project: Young Deep Unit 23

Sample ID LCS-33273	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 33273		RunNo: 44860							
Prep Date: 8/9/2017	Analysis Date: 8/10/2017		SeqNo: 1418517		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.9	73.2	114			
Surr: DNOP	4.5		5.000		89.5	70	130			

Sample ID MB-33273	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 33273		RunNo: 44860							
Prep Date: 8/9/2017	Analysis Date: 8/10/2017		SeqNo: 1418518		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.0	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708486

15-Aug-17

Client: Souder, Miller & Associates

Project: Young Deep Unit 23

Sample ID LCS-33248	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 33248		RunNo: 44855							
Prep Date: 8/8/2017	Analysis Date: 8/9/2017		SeqNo: 1418071				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.4	76.4	125			
Surr: BFB	970		1000		96.5	54	150			

Sample ID MB-33248	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 33248		RunNo: 44855							
Prep Date: 8/8/2017	Analysis Date: 8/9/2017		SeqNo: 1418072				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.8	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708486

15-Aug-17

Client: Souder, Miller & Associates

Project: Young Deep Unit 23

Sample ID LCS-33248	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 33248		RunNo: 44855							
Prep Date: 8/8/2017	Analysis Date: 8/9/2017		SeqNo: 1418218				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.92	0.10	1.000	0	92.3	66.5	120			
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	66.6	132			

Sample ID MB-33248	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 33248		RunNo: 44855							
Prep Date: 8/8/2017	Analysis Date: 8/9/2017		SeqNo: 1418219				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		115	66.6	132			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Client Name: SMA-CARLSBAD

Work Order Number: 1708486

RcptNo: 1

Received By: Erin Melendrez

8/8/2017 9:40:00 AM

EM

Completed By: Ashley Gallegos

8/8/2017 1:26:33 PM

AG

Reviewed By: ENM

8/8/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
- (Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
- (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Standard Rush

Project Name:

Young Deep Unit 23

Project #:

201 S. Halagueno

Phone #: 575-689-5351

email or Fax#: lucas.middleton@soudermiller.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Sampler: LCM

On Ice: Yes No

Sample Temperature: *5.4*

Date Time Matrix Sample Request ID

8-3-17 11:00 50.1 L1-3
L2-3
L3-3
L4-3
L5-3

Container Type and #

A02
↓
↓
↓

Preservative Type

HEAL No. *1708486*

-001
-002
-003
-004
-005

Analysis Request

<input checked="" type="checkbox"/> BTEX + MTBE + TMBs (8021)	<input checked="" type="checkbox"/> TPH Method 8015B (Gas/Diesel)	<input checked="" type="checkbox"/> TPH (Method 418.1)	<input checked="" type="checkbox"/> EDB (Method 504.1)	<input checked="" type="checkbox"/> 8310 (PNA or PAH)	<input checked="" type="checkbox"/> RCRA 8 Metals	<input checked="" type="checkbox"/> Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	<input checked="" type="checkbox"/> 8081 Pesticides / 8082 PCB's	<input checked="" type="checkbox"/> 8260B (VOA)	<input checked="" type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Air Bubbles (Y or N)
---	---	--	--	---	---	--	--	---	---	---

Relinquished by:

Date: *8-8-17*

Received by:

Date: *8/8/17*

Relinquished by:

Date: *8/17/17*

Received by:

Date: *8/17/17*

Remarks: *Verified Sample ID for -003 with Lucas. mg - 08/08/17*

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Courier