



Date of Report: 12/08/2015

Jennifer Brady

E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

Client Project: GIG Excavation

BCL Project: GIG

BCL Work Order: 1531061

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 12/7/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

\_\_\_\_\_  
Contact Person: Kerrie Vaughan  
Client Services

\_\_\_\_\_  
Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



## Table of Contents

### Sample Information

Laboratory / Client Sample Cross Reference..... 3

### Sample Results

**1531061-01 - SW42-d6.5**

Draft: Total Petroleum Hydrocarbons..... 4

**1531061-02 - SW43-d12.0**

Draft: Total Petroleum Hydrocarbons..... 5

**1531061-03 - SW44-d16.0**

Draft: Total Petroleum Hydrocarbons..... 6

**1531061-04 - SW45-d12.0**

Draft: Total Petroleum Hydrocarbons..... 7

**1531061-05 - SW46-d4.0**

Draft: Total Petroleum Hydrocarbons..... 8

**1531061-06 - SW47-d11.0**

Draft: Total Petroleum Hydrocarbons..... 9

**1531061-07 - SW48-d7.0**

Draft: Total Petroleum Hydrocarbons..... 10

### Quality Control Reports

#### Draft: Total Petroleum Hydrocarbons

Method Blank Analysis..... 11

Laboratory Control Sample..... 12

Precision and Accuracy..... 13

### Notes

Notes and Definitions..... 14

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Laboratory / Client Sample Cross Reference

Laboratory ID	Client Sample Information			Receive Date:	
1531061-01	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:40
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW42-d6.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-02	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:41
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW43-d12.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-03	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:49
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW44-d16.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-04	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:51
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW45-d12.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-05	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:52
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW46-d4.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-06	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:56
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW47-d11.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil
1531061-07	<b>COC Number:</b>	---		12/07/2015 08:08	
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	12/05/2015 16:59
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW48-d7.0		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe		<b>Sample Type:</b>	Soil

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-01	<b>Client Sample Name:</b> SW42-d6.5, 12/5/2015 4:40:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	69.3	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 16:56	MWB	GC-13	0.990	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-02	<b>Client Sample Name:</b> SW43-d12.0, 12/5/2015 4:41:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	200	50	EPA-8015B/FFP	ND	A01	1
TPH - Diesel (FFP)	200	mg/kg	100	12	EPA-8015B/FFP	ND	A01,A52	1
TPH - Motor Oil	1000	mg/kg	200	65	EPA-8015B/FFP	ND	A01	1
Tetracosane (Surrogate)	61.4	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 15:04	MWB	GC-13	10.101	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-03	<b>Client Sample Name:</b> SW44-d16.0, 12/5/2015 4:49:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	69.7	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 17:19	MWB	GC-13	1	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-04	<b>Client Sample Name:</b> SW45-d12.0, 12/5/2015 4:51:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	400	100	EPA-8015B/FFP	ND	A01	1
TPH - Diesel (FFP)	1800	mg/kg	200	24	EPA-8015B/FFP	ND	A01	1
TPH - Motor Oil	1300	mg/kg	400	130	EPA-8015B/FFP	ND	A01	1
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 15:26	MWB	GC-13	20	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-05	<b>Client Sample Name:</b> SW46-d4.0, 12/5/2015 4:52:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	49	mg/kg	10	1.2	EPA-8015B/FFP	ND	A52	1
TPH - Motor Oil	240	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	71.5	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 15:49	MWB	GC-13	1	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.





E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-06	<b>Client Sample Name:</b> SW47-d11.0, 12/5/2015 4:56:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	74.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 17:42	MWB	GC-13	0.984	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1531061-07	<b>Client Sample Name:</b> SW48-d7.0, 12/5/2015 4:59:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	68.9	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	12/07/15	12/07/15 18:05	MWB	GC-13	0.997	BYL0631

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYL0631</b>						
TPH - Gasoline	BYL0631-BLK1	ND	mg/kg	20	5.0	
TPH - Diesel (FFP)	BYL0631-BLK1	ND	mg/kg	10	1.2	
TPH - Motor Oil	BYL0631-BLK1	ND	mg/kg	20	6.5	
<b>Tetracosane (Surrogate)</b>	<b>BYL0631-BLK1</b>	<b>72.2</b>	<b>%</b>	<b>20 - 145 (LCL - UCL)</b>		

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

### Draft: Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYL0631</b>										
TPH - Diesel (FFP)	BYL0631-BS1	LCS	71.555	83.056	mg/kg	86.2		64	124	
Tetracosane (Surrogate)	BYL0631-BS1	LCS	2.7661	3.3223	mg/kg	83.3		20	145	

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

**Draft: Total Petroleum Hydrocarbons**  
**Quality Control Report - Precision & Accuracy**

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent		Lab Quals
								Recovery	RPD	
<b>QC Batch ID: BYL0631</b>		Used client sample: N								
TPH - Diesel (FFP)	MS	1528561-62	ND	69.625	83.333	mg/kg		83.6		52 - 131
	MSD	1528561-62	ND	77.690	84.459	mg/kg	10.9	92.0	30	52 - 131
Tetracosane (Surrogate)	MS	1528561-62	ND	2.6195	3.3333	mg/kg		78.6		20 - 145
	MSD	1528561-62	ND	2.9963	3.3784	mg/kg	13.4	88.7		20 - 145

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



E & B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

**Reported:** 12/08/2015 13:35  
**Project:** GIG  
**Project Number:** GIG Excavation  
**Project Manager:** Jennifer Brady

**Notes And Definitions**

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A17 Surrogate not reportable due to sample dilution.
- A52 Chromatogram not typical of diesel.

*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.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.