

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Monday, November 30, 2015 6:00 PM
To: 'jmonroe@raboohherconsulting.com'
Cc: Jennifer Brady; David Bush
Subject: RO3181: E&B's GIG Site Excavation Activities

Ms. Brady and Mr. Monroe,

We have reviewed the preliminary results from the soil excavation to date and your request to backfill the excavation with imported fill material in order to have room to continue excavation activities to the west. We have no objection to backfilling the excavation provided that plastic sheeting or other material is placed along the western sidewall of the current excavation to mark the point where future excavation is to be conducted. After the existing excavation is backfilled, we request that excavation be continued to the west to remove remaining soil contamination.

Based on the results presented, the use of approximately 500 cubic yards of backfill material represented by soil samples CF-1 and CF-2 is approved.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: jmonroe@raboohherconsulting.com [mailto:jmonroe@raboohherconsulting.com]
Sent: Sunday, November 29, 2015 1:43 PM
To: Wickham, Jerry, Env. Health <jerry.wickham@acgov.org>
Cc: Jennifer Brady <jbrady@ebresources.com>; David Bush <dbush@egsconsultants.com>
Subject: Re: E&B's GIG Site Excavation Activities

Jerry,

Attached zip file with backfill request, lab reports, maps and response to questions. Weather is changing, if we can start to backfill sometime this week we can then have room to operate again to continue soil remediation activities.

Thanks for your timely review.

Jeff Monroe
530-237-6628

From: "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org>
To: "jmonroe@raboohherconsulting.com" <jmonroe@raboohherconsulting.com>
Cc: Jennifer Brady <jbrady@ebresources.com>; David Bush <dbush@egsconsultants.com>
Sent: Wednesday, November 25, 2015 11:13 AM
Subject: RE: E&B's GIG Site Excavation Activities

Jeff,

I should begin today to review the results that you have sent for the excavation and fill. I expect to have that complete by next Monday. For each source of fill material, please answer the following questions from my September 30 directive letter. Where these items are already addressed by the materials you have already sent, you can just indicate that the information was provided. Thanks.

- 1) A description including maps and/or aerial photos showing the location(s) where the fill came from.
- 2) Background information and/or reports on the fill source
- 3) The volume of the fill and the volume that each sample represents.
- 4) The type of samples - composite or discrete.
- 5) The type of fill and the heterogeneity.
- 6) Whether the fill contains any debris or construction material.
- 7) Whether any staining or odor was observed.
- 8) Locations and depths where the imported fill is to be placed on site.
- 9) Laboratory analytical results.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: jmonroe@raboohherconsulting.com [<mailto:jmonroe@raboohherconsulting.com>]
Sent: Wednesday, November 25, 2015 10:26 AM
To: Wickham, Jerry, Env. Health <jerry.wickham@acgov.org>
Cc: Jennifer Brady <jbrady@ebresources.com>; David Bush <dbush@egsconsultants.com>
Subject: E&B's GIG Site Excavation Activities

Jerry,

Attached is just a kmz and jpg google earth files showing the excavation limits and final sample locations. Also where the "clean fill" samples and material are located near the southern portion of the Marshall property. Please note that I am having technical difficulties getting my GPS points to match the GoogleEarth Map. The points are correct east and west, but the polygon needs to slide north approximately 9' to the north. The southern most line should be just 2' north from the trunks of the landscaping trees. I will have it figured out for the drafting soon but you can see where the samples are located in the excavation for now.

You have the current lab date to review. We are requesting to backfill the excavation as quickly as I can schedule it with the contractor using the onsite materials on the Marshall property. The excavation is approximately 1300 cubic yards. We will use visqueen as a barrier between the west wall and the backfill material. I anticipate backfilling by the middle of next week pending your approval.

Call me if you have questions.

Thanks,

Jeff

ROBERT A. BOOHER CONSULTING
Environmental Planning and Management
3287 Congressional Court
Fairfield, CA 94534
Telephone (707) 399-7835
www.rabooherconsulting.com

November 29, 2015

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**RE: E&B Natural Resources Management Corporation's Backfill and Import
ACEHS Remedial Action Case No. RO-0003181**

Dear Mr. Wickham,

During the month of November 2015, E&B Natural Resources Management Corporation (E&B) has been performing the soil remediation activities as described in our Soil Excavation and Groundwater Investigation Work Plan (Work Plan) dated September 16, 2015. At this time the excavation activities appear to be coming near completion, however, we have run out of operating room on site to continue excavating to the west where evidence suggests we need to continue. Attached is the preliminary analytical reports and a sample location map from the latest excavation activities for you review. We would request Alameda County Environmental Health Services (ACEHS) permission to be able to start backfilling the eastern portions of the excavation where the sample results appear to be in line with the goals of our remediation activities.

As requested and agreed upon for the backfilling and import material the following items outlined in your letter dated September 30, 2015, are listed in order under item 3 are as follows:

1&2) Attached Google Earth Aerial maps showing locations of import material that has been sampled which we are requesting to use as our import backfill. The import material we are requesting come from two sources. One, is from the Marshall family road construction activities on the adjacent property to the south of the excavation in an agricultural (pasture) setting. This soil is from the top two feet of native clayey silts.

The second source is a stockpile also on the adjacent property on Patterson Pass Road, Livermore which was imported from a residential construction project in Daly City, see attached manifest supplied by Marshall Brothers for this import material.

3) Samples represent approximately 250 cubic yards each. Discrete samples designated CF1 and

CF3 were collected from the material that was generated at a residential construction project in Daily City (350 + cubic yards), and samples designated CF2, CF4 and CF5 were collected from stockpiles generated from the top 2 feet of native onsite soils located on Patterson Pass Road. Total volume required to backfill the current excavation is approximately 1250 cubic yards. The top of the excavation will be capped with an imported base rock at the completion of backfill activities.

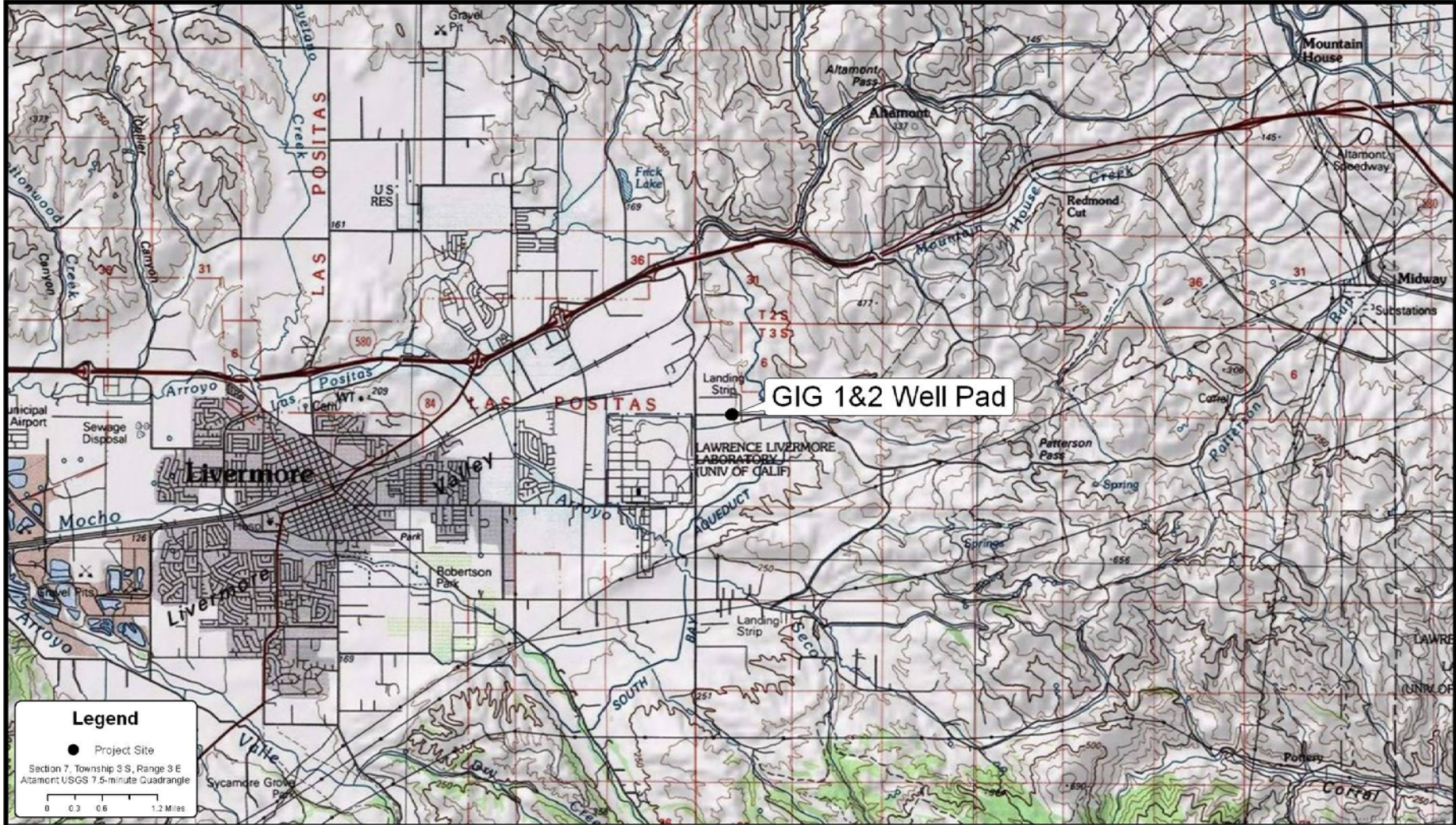
- 4) All samples collected from the proposed import materials were discrete samples
- 5) The soils generated from construction activities in Daily City appear to be a sandy silt with some clays and light yellowish brown in color. The native material generated from road construction activities on the adjacent property is comprised of a medium to dark brown clayey silt to silty clays, medium plasticity.
- 6) No debris, organic fill or construction material was observed in the proposed import materials.
- 7) No staining or odors were observed in any of the proposed import material.
- 8) The material from Daly City appears to be more granular and would be used for the backfill in the deeper portions of the excavation. The balance of the excavation would be backfilled from the soils generated on the adjacent property from the road construction activities.
- 9) Laboratory results attached. The first round of samples were tested following the California Department of Toxic Substances Control Information Advisory, Clean Imported Fill Material (DTSC 2001), and results from CF1 and CF2 are attached, additional samples were then collected as the excavation increased in volume. Additional samples CF3-CF5 have the TPH results attached, additional analyses pending.

Due to the fast approaching winter rains, we are requesting to start scheduling these backfilling activities as quickly as possible. Thanks you for your attention to this matter.

If you have any questions regarding this report, please contact me directly at (530) 237-6628, or you may reach Bob Booher at (707) 399-7835.

Sincerely,

Jeff Monroe
Project Geologist
Robert A. Booher Consulting



Legend

- Project Site

Section 7, Township 3 S, Range 3 E
 Alamo: USGS 7.5-minute Quadrangle

0 0.3 0.6 1.2 Miles

FIGURE 1
Project Vicinity Map

Robert A. Echer Consulting
 Environmental Planning & Management
 3297 Congressional Court
 Fairfield, California 94534
 Telephone (707) 393-7835

E&B Natural Resources Management Corporation
 1800 Harris Road
 Bakersfield, California 93308



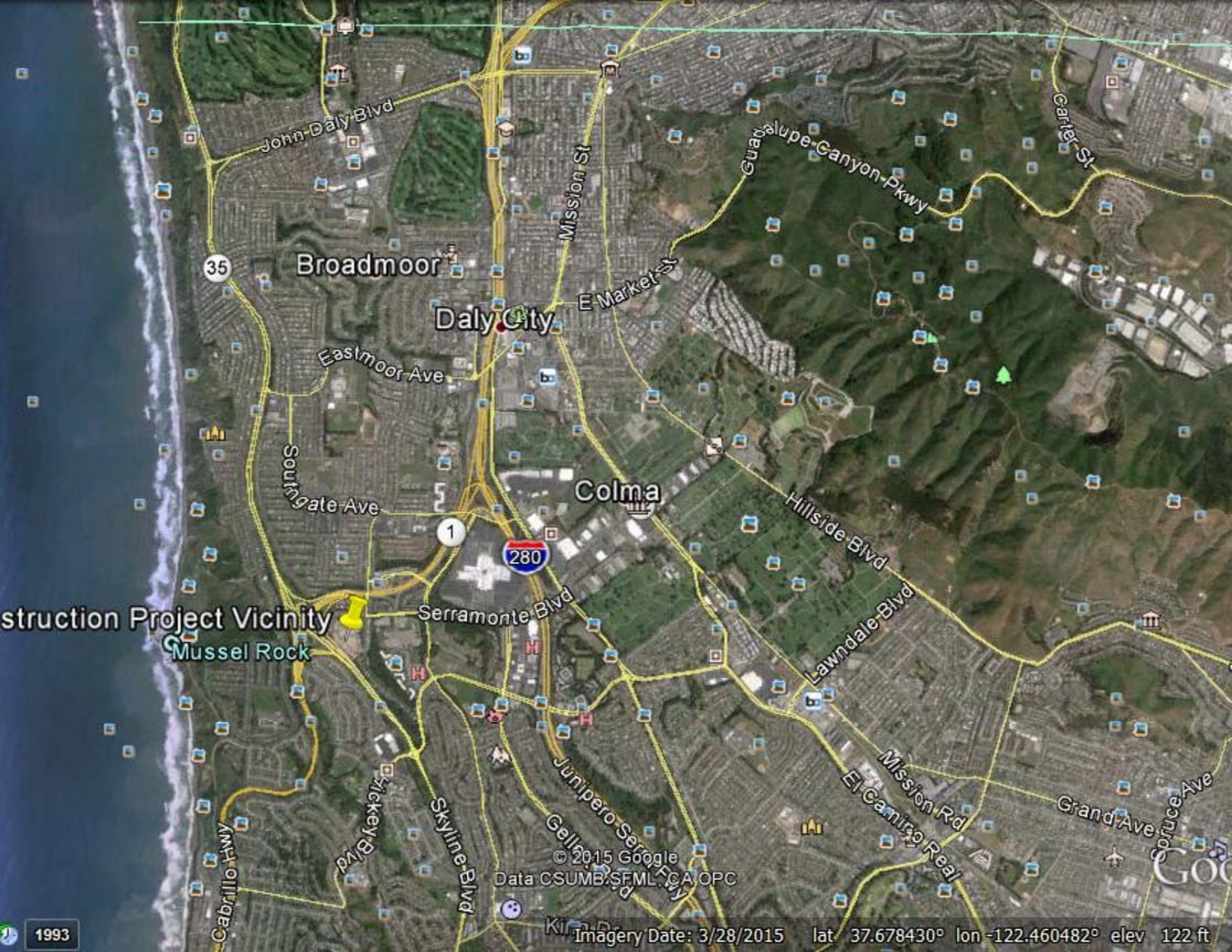


FIGURE 4
Former GIG Tank Facility Excavation and Sample Locations

Robert A. Bocher Consulting
 Environmental Planning & Management
 3297 Congressional Court
 Fairfield, California 94534
 Telephone (707) 399-7835

E&B Natural Resources Management Corporation
 GIG 1&2 Site Address:
 8477 Patterson Pass Road
 Livermore, California 94550





Construction Project Vicinity
Mussel Rock

Broadmoor

Daly City

Colma

35

1

280

John Daly Blvd

Mission St

Guadalupe Canyon Pkwy

Carter St

Eastmoor Ave

E Market St

Southingate Ave

Hillside Blvd

Serramonte Blvd

Lawndale Blvd

Junipero Serra Hwy

Skyline Blvd

Gella Dr

El Camino Real

Grand Ave

Cabrillo Hwy

Stickey Blvd

Spruce Ave

© 2015 Google
Data CSUMB/SFML, CA OPC

Imagery Date: 3/28/2015 lat 37.678430° lon -122.460482° elev 122 ft

1993



Google earth



IMPORT SOIL MANIFEST

Approved Profile ID Number: OAB-020-15

Manifest Number: _____

A. GENERATOR INFORMATION

1 Company Name: _____
 2 Address: 2803 Camino Ramon, Suite 625
 3 City: San Ramon
 4 State: CA Zip: 94583
 5 Phone: (925) 694-6274
 6 FAX: ()
 7 Contact: Dave Geist
 8 Title: Direct of Land Operations

B. TRANSPORTER INFORMATION

1 Company Name: Marshall Brothers Enterprises Inc.
 2 Address: P.O. Box 2188
 3 City: Livermore, CA 94551
 4 State: _____ Zip: _____
 5 Phone: (925) 449-4020
 6 FAX: (925) 449-4025
 7 Contact: Sonja Beardsley
 8 Title: General Manager

C. MATERIAL INFORMATION

1 Address of borrow area (site of origin): Christopher Highlands in Daly City, CA
 2 County of origin: San Mateo County

Description of Soil Material	Total Quantity	Unit of Measurement	Container Type
Soil	4000	CY	

3 Special handling instructions: _____

D. GENERATOR CERTIFICATION

I hereby certify that the above-described soil materials are non-hazardous as defined by 40 CFR 261 or any applicable state law, and does not contain PCBs regulated under TSCA 40 CFR 761. I also certify that the above-described soil materials were not sourced from a property with Recognized Environmental Conditions. The term "Recognized Environmental Conditions" means the presence, or likely presence of hazardous substances or petroleum products on the Site under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous materials or petroleum products into structures on the subject Site; or into the ground, groundwater, or surface water of the subject property. The term includes hazardous substances or petroleum products even under conditions in compliance with existing laws. Further, I certify that the above-described materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Birk New

 (Print Name)
[Signature]

 (Signature)

Lennor

 (Generator Name)
06/25/15

 (Date Shipped)

E. TRANSPORTER SIGNATURE

 (Print Name) _____ (Signature)
 _____ (DOT No.) _____ (Vessel ID No.) _____ (Date Delivered)

F. RECEIVING FACILITY

 (Company and Site Name, Address, and Phone)
 I hereby acknowledge receipt of the above-described materials.
 _____ (Print Name) _____ (Signature) _____ (Date Received)



Date of Report: 11/24/2015

Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road

Bakersfield, CA 93308

Client Project: GIG Excavation

BCL Project: GIG

BCL Work Order: 1528601

Invoice ID: B219800

Enclosed are the results of analyses for samples received by the laboratory on 11/9/2015. 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

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Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

Sample Results

1528601-01 - CF1 Clean Fill-Daly City

Volatile Organic Analysis (EPA Method 8260B).....	6
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	9
Purgeable Aromatics and Total Petroleum Hydrocarbons.....	13
Total Petroleum Hydrocarbons.....	14
Total Concentrations (TTLC).....	15

1528601-02 - CF2 Clean Fill-Paterson Pass Rd.

Volatile Organic Analysis (EPA Method 8260B).....	16
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	19
Purgeable Aromatics and Total Petroleum Hydrocarbons.....	23
Total Petroleum Hydrocarbons.....	24
Total Concentrations (TTLC).....	25

Quality Control Reports

Volatile Organic Analysis (EPA Method 8260B)

Method Blank Analysis.....	26
Laboratory Control Sample.....	28
Precision and Accuracy.....	29

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Method Blank Analysis.....	30
Laboratory Control Sample.....	34
Precision and Accuracy.....	35

Purgeable Aromatics and Total Petroleum Hydrocarbons

Method Blank Analysis.....	37
Laboratory Control Sample.....	38
Precision and Accuracy.....	39

Total Petroleum Hydrocarbons

Method Blank Analysis.....	40
Laboratory Control Sample.....	41
Precision and Accuracy.....	42

Total Concentrations (TTLC)

Method Blank Analysis.....	43
Laboratory Control Sample.....	44
Precision and Accuracy.....	45

Subcontract Reports

WO_1528601_SUB_EMSLA.pdf.....	47
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Notes

Notes and Definitions.....	48
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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission # 1528601

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
---	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: _____ Container: soil sleeve Thermometer ID: 228 Date/Time 11/9/15 08:15
 Temperature: (A) 5.0 °C / (C) 5.2 °C Analyst Init Mas

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE <u>XPL</u>		<u>A</u>	<u>A</u>							
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: JDL Date/Time: 11-9-15 MAS Rev 20 07/24/2015
 A = Actual / C = Corrected

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1528601-01	COC Number: --- Project Number: GIG Excavation Sampling Location: --- Sampling Point: CF1 Clean Fill-Daly City Sampled By: ---	Receive Date: 11/09/2015 08:13 Sampling Date: 11/06/2015 17:47 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil Delivery Work Order: Global ID: T10000007269 Location ID (FieldPoint): CF Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1528601-02	COC Number: --- Project Number: GIG Excavation Sampling Location: --- Sampling Point: CF2 Clean Fill-Paterson Pass Rd. Sampled By: ---	Receive Date: 11/09/2015 08:13 Sampling Date: 11/06/2015 17:49 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil Delivery Work Order: Global ID: T10000007269 Location ID (FieldPoint): CF Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1600 Norris Road
Bakersfield, CA 93308

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-01		Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM						
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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1600 Norris Road
Bakersfield, CA 93308

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-01		Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	83.8	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	92.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-01 **Client Sample Name:** GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	11/10/15	11/11/15 15:12	ADC	MS-V2	1	BYK0980

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.024	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.053	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.22	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.015	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.056	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.067	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.021	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
beta-BHC	ND	mg/kg	0.10	0.021	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.017	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.017	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.016	EPA-8270C			1
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.10	0.021	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	0.098	mg/kg	0.20	0.043	EPA-8270C		J	1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.017	EPA-8270C			1
4-Chloroaniline	ND	mg/kg	0.10	0.027	EPA-8270C			1
2-Chloronaphthalene	ND	mg/kg	0.10	0.020	EPA-8270C			1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.017	EPA-8270C			1
4,4'-DDD	ND	mg/kg	0.10	0.017	EPA-8270C	1.0		1
4,4'-DDE	ND	mg/kg	0.10	0.017	EPA-8270C	1.0		1
4,4'-DDT	ND	mg/kg	0.10	0.019	EPA-8270C	1.0		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.020	EPA-8270C			1
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.020	EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.021	EPA-8270C			1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.019	EPA-8270C			1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.020	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.018	EPA-8270C			1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.022	EPA-8270C			1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.017	EPA-8270C			1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.019	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.020	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.021	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.021	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.025	EPA-8270C	0.2		1
Endrin aldehyde	ND	mg/kg	0.50	0.022	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.021	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.017	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.020	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.072	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.017	EPA-8270C			1
2-Methylnaphthalene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.018	EPA-8270C			1
2-Naphthylamine	ND	mg/kg	3.0	0.16	EPA-8270C			1
2-Nitroaniline	ND	mg/kg	0.10	0.018	EPA-8270C			1
3-Nitroaniline	ND	mg/kg	0.20	0.015	EPA-8270C			1
4-Nitroaniline	ND	mg/kg	0.20	0.025	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.015	EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.037	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.021	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.021	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.017	EPA-8270C			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.018	EPA-8270C			1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.022	EPA-8270C			1
2-Chlorophenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.017	EPA-8270C			1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.035	EPA-8270C			1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.012	EPA-8270C			1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0077	EPA-8270C			1
2-Methylphenol	ND	mg/kg	0.10	0.017	EPA-8270C			1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.033	EPA-8270C			1
Total Methylphenol	ND	mg/kg	0.20	0.047	EPA-8270C			1
2-Nitrophenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.013	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.018	EPA-8270C			1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	96.4	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	84.0	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Nitrobenzene-d5 (Surrogate)	102	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	101	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	91.2	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	92.8	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	11/10/15	11/12/15 17:31	VH1	MS-B1	0.960	BYK1257

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.28	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	128	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/09/15	11/09/15 11:40	AKM	GC-V8	1	BYK0303

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	11	mg/kg	10	1.2	EPA-8015B/FFP	ND	A52	1
TPH - Motor Oil	90	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	72.0	%	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	11/10/15	11/12/15 14:14	MWB	GC-13	1.007	BYK1153

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

BCL Sample ID: 1528601-01	Client Sample Name: GIG Excavation, CF1 Clean Fill-Daly City, 11/6/2015 5:47:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	25	1.6	EPA-6010B	500	A07	1
Arsenic	3.4	mg/kg	5.0	2.0	EPA-6010B	500	J,A07	1
Barium	42	mg/kg	2.5	0.90	EPA-6010B	10000	A07	1
Beryllium	0.28	mg/kg	2.5	0.24	EPA-6010B	75	J,A07	1
Cadmium	0.26	mg/kg	2.5	0.26	EPA-6010B	100	J,A07	1
Chromium	44	mg/kg	2.5	0.25	EPA-6010B	2500	A07	1
Cobalt	6.7	mg/kg	12	0.49	EPA-6010B	8000	J,A07	1
Copper	10	mg/kg	5.0	0.25	EPA-6010B	2500	A07	1
Lead	6.2	mg/kg	12	1.4	EPA-6010B	1000	J,A07	1
Mercury	0.077	mg/kg	0.16	0.036	EPA-7471A	20	J	2
Molybdenum	1.1	mg/kg	12	0.25	EPA-6010B	3500	J,A07	1
Nickel	52	mg/kg	2.5	0.75	EPA-6010B	2000	A07	1
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	100	A07	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	500	A07	1
Thallium	ND	mg/kg	25	3.2	EPA-6010B	700	A07	1
Vanadium	28	mg/kg	2.5	0.55	EPA-6010B	2400	A07	1
Zinc	40	mg/kg	12	0.44	EPA-6010B	5000	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/10/15	11/11/15 11:20	ARD	PE-OP3	4.854	BYK0893
2	EPA-7471A	11/10/15	11/10/15 12:39	MEV	CETAC1	1.008	BYK0919

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-02		Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.6	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.8	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/10/15	11/11/15 15:35	ADC	MS-V2	1	BYK0980

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.024	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.053	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.22	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.015	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.056	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.067	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.018	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.021	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
beta-BHC	ND	mg/kg	0.10	0.021	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.017	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.017	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.016	EPA-8270C			1
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.10	0.021	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.043	EPA-8270C			1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.017	EPA-8270C			1
4-Chloroaniline	ND	mg/kg	0.10	0.027	EPA-8270C			1
2-Chloronaphthalene	ND	mg/kg	0.10	0.020	EPA-8270C			1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.017	EPA-8270C			1
4,4'-DDD	ND	mg/kg	0.10	0.017	EPA-8270C	1.0		1
4,4'-DDE	ND	mg/kg	0.10	0.017	EPA-8270C	1.0		1
4,4'-DDT	ND	mg/kg	0.10	0.019	EPA-8270C	1.0		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.020	EPA-8270C			1
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.020	EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.021	EPA-8270C			1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.019	EPA-8270C			1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.020	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.018	EPA-8270C			1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.022	EPA-8270C			1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.017	EPA-8270C			1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.019	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.020	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.021	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.021	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.025	EPA-8270C	0.2		1
Endrin aldehyde	ND	mg/kg	0.50	0.022	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.021	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.017	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.020	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.072	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.017	EPA-8270C			1
2-Methylnaphthalene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.018	EPA-8270C			1
2-Naphthylamine	ND	mg/kg	3.0	0.16	EPA-8270C			1
2-Nitroaniline	ND	mg/kg	0.10	0.018	EPA-8270C			1
3-Nitroaniline	ND	mg/kg	0.20	0.015	EPA-8270C			1
4-Nitroaniline	ND	mg/kg	0.20	0.025	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.015	EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.037	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.021	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.021	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.017	EPA-8270C			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.018	EPA-8270C			1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.022	EPA-8270C			1
2-Chlorophenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.017	EPA-8270C			1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.035	EPA-8270C			1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.012	EPA-8270C			1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0077	EPA-8270C			1
2-Methylphenol	ND	mg/kg	0.10	0.017	EPA-8270C			1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.033	EPA-8270C			1
Total Methylphenol	ND	mg/kg	0.20	0.047	EPA-8270C			1
2-Nitrophenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.013	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.016	EPA-8270C			1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.018	EPA-8270C			1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	98.3	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	86.4	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM							
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Nitrobenzene-d5 (Surrogate)	103	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	91.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	96.9	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	97.2	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	11/10/15	11/12/15 17:56	VH1	MS-B1	1.017	BYK1257

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.28	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	128	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/09/15	11/09/15 12:01	AKM	GC-V8	1	BYK0303

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	7.7	mg/kg	10	1.2	EPA-8015B/FFP	ND	J,A52	1
TPH - Motor Oil	42	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	71.8	%	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	11/10/15	11/12/15 00:20	MWB	GC-13	1.007	BYK1153

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

BCL Sample ID: 1528601-02	Client Sample Name: GIG Excavation, CF2 Clean Fill-Paterson Pass Rd., 11/6/2015 5:49:00PM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	25	1.6	EPA-6010B	500	A07	1
Arsenic	ND	mg/kg	5.0	2.0	EPA-6010B	500	A07	1
Barium	210	mg/kg	2.5	0.90	EPA-6010B	10000	A07	1
Beryllium	0.28	mg/kg	2.5	0.24	EPA-6010B	75	J,A07	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	100	A07	1
Chromium	19	mg/kg	2.5	0.25	EPA-6010B	2500	A07	1
Cobalt	7.4	mg/kg	12	0.49	EPA-6010B	8000	J,A07	1
Copper	15	mg/kg	5.0	0.25	EPA-6010B	2500	A07	1
Lead	9.6	mg/kg	12	1.4	EPA-6010B	1000	J,A07	1
Mercury	0.045	mg/kg	0.16	0.036	EPA-7471A	20	J	2
Molybdenum	0.53	mg/kg	12	0.25	EPA-6010B	3500	J,A07	1
Nickel	19	mg/kg	2.5	0.75	EPA-6010B	2000	A07	1
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	100	A07	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	500	A07	1
Thallium	ND	mg/kg	25	3.2	EPA-6010B	700	A07	1
Vanadium	24	mg/kg	2.5	0.55	EPA-6010B	2400	A07	1
Zinc	35	mg/kg	12	0.44	EPA-6010B	5000	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/10/15	11/11/15 11:21	ARD	PE-OP3	4.630	BYK0893
2	EPA-7471A	11/10/15	11/10/15 12:41	MEV	CETAC1	1.025	BYK0919

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK0980						
Benzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Bromobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Bromochloromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00092	
Bromodichloromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	BYK0980-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0016	
n-Butylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0015	
sec-Butylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
tert-Butylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
Carbon tetrachloride	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	BYK0980-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
2-Chlorotoluene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0018	
4-Chlorotoluene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dibromo-3-chloropropane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0017	
1,2-Dibromoethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0010	
Dibromomethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0018	
1,2-Dichlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichloropropane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
2,2-Dichloropropane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloropropene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,3-Dichloropropene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK0980						
trans-1,3-Dichloropropene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
Ethylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0015	
Hexachlorobutadiene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0017	
Isopropylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
p-Isopropyltoluene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Methylene chloride	BYK0980-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	BYK0980-BLK1	ND	mg/kg	0.0050	0.00050	
Naphthalene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
n-Propylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Styrene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0014	
1,1,1,2-Tetrachloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,1,2-Tetrachloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
Toluene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
1,2,3-Trichlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0021	
1,2,4-Trichlorobenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0020	
1,1,1-Trichloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0011	
1,2,3-Trichloropropane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0016	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
1,2,4-Trimethylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0013	
1,3,5-Trimethylbenzene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0015	
Vinyl chloride	BYK0980-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	BYK0980-BLK1	ND	mg/kg	0.010	0.0034	
p- & m-Xylenes	BYK0980-BLK1	ND	mg/kg	0.0050	0.0022	
o-Xylene	BYK0980-BLK1	ND	mg/kg	0.0050	0.0012	
1,2-Dichloroethane-d4 (Surrogate)	BYK0980-BLK1	89.0	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BYK0980-BLK1	96.7	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BYK0980-BLK1	95.0	%	74 - 121 (LCL - UCL)		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYK0980										
Benzene	BYK0980-BS1	LCS	0.11645	0.12500	mg/kg	93.2		70 - 130		
Bromodichloromethane	BYK0980-BS1	LCS	0.12012	0.12500	mg/kg	96.1		70 - 130		
Chlorobenzene	BYK0980-BS1	LCS	0.13120	0.12500	mg/kg	105		70 - 130		
Chloroethane	BYK0980-BS1	LCS	0.11095	0.12500	mg/kg	88.8		70 - 130		
1,4-Dichlorobenzene	BYK0980-BS1	LCS	0.13612	0.12500	mg/kg	109		70 - 130		
1,1-Dichloroethane	BYK0980-BS1	LCS	0.10929	0.12500	mg/kg	87.4		70 - 130		
1,1-Dichloroethene	BYK0980-BS1	LCS	0.11574	0.12500	mg/kg	92.6		70 - 130		
Toluene	BYK0980-BS1	LCS	0.12149	0.12500	mg/kg	97.2		70 - 130		
Trichloroethene	BYK0980-BS1	LCS	0.12126	0.12500	mg/kg	97.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYK0980-BS1	LCS	0.043580	0.050000	mg/kg	87.2		70 - 121		
Toluene-d8 (Surrogate)	BYK0980-BS1	LCS	0.048460	0.050000	mg/kg	96.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BYK0980-BS1	LCS	0.047380	0.050000	mg/kg	94.8		74 - 121		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Control Limits			Lab Quals
							RPD	Percent Recovery	Percent Recovery	
QC Batch ID: BYK0980		Used client sample: N								
Benzene	MS	1524843-98	ND	0.11641	0.12500	mg/kg		93.1		70 - 130
	MSD	1524843-98	ND	0.11549	0.12500	mg/kg	0.8	92.4	20	70 - 130
Bromodichloromethane	MS	1524843-98	ND	0.11646	0.12500	mg/kg		93.2		70 - 130
	MSD	1524843-98	ND	0.11726	0.12500	mg/kg	0.7	93.8	20	70 - 130
Chlorobenzene	MS	1524843-98	ND	0.12933	0.12500	mg/kg		103		70 - 130
	MSD	1524843-98	ND	0.12721	0.12500	mg/kg	1.7	102	20	70 - 130
Chloroethane	MS	1524843-98	ND	0.11311	0.12500	mg/kg		90.5		70 - 130
	MSD	1524843-98	ND	0.11354	0.12500	mg/kg	0.4	90.8	20	70 - 130
1,4-Dichlorobenzene	MS	1524843-98	ND	0.13656	0.12500	mg/kg		109		70 - 130
	MSD	1524843-98	ND	0.13181	0.12500	mg/kg	3.5	105	20	70 - 130
1,1-Dichloroethane	MS	1524843-98	ND	0.11117	0.12500	mg/kg		88.9		70 - 130
	MSD	1524843-98	ND	0.11191	0.12500	mg/kg	0.7	89.5	20	70 - 130
1,1-Dichloroethene	MS	1524843-98	ND	0.11987	0.12500	mg/kg		95.9		70 - 130
	MSD	1524843-98	ND	0.12038	0.12500	mg/kg	0.4	96.3	20	70 - 130
Toluene	MS	1524843-98	ND	0.12002	0.12500	mg/kg		96.0		70 - 130
	MSD	1524843-98	ND	0.11758	0.12500	mg/kg	2.1	94.1	20	70 - 130
Trichloroethene	MS	1524843-98	ND	0.11955	0.12500	mg/kg		95.6		70 - 130
	MSD	1524843-98	ND	0.11785	0.12500	mg/kg	1.4	94.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1524843-98	ND	0.045010	0.050000	mg/kg		90.0		70 - 121
	MSD	1524843-98	ND	0.046230	0.050000	mg/kg	2.7	92.5		70 - 121
Toluene-d8 (Surrogate)	MS	1524843-98	ND	0.047070	0.050000	mg/kg		94.1		81 - 117
	MSD	1524843-98	ND	0.046730	0.050000	mg/kg	0.7	93.5		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1524843-98	ND	0.048830	0.050000	mg/kg		97.7		74 - 121
	MSD	1524843-98	ND	0.049230	0.050000	mg/kg	0.8	98.5		74 - 121

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK1257						
Acenaphthene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Acenaphthylene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Aldrin	BYK1257-BLK1	ND	mg/kg	0.10	0.024	
Aniline	BYK1257-BLK1	ND	mg/kg	0.20	0.053	
Anthracene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Benzidine	BYK1257-BLK1	ND	mg/kg	3.0	0.22	
Benzo[a]anthracene	BYK1257-BLK1	ND	mg/kg	0.10	0.012	
Benzo[b]fluoranthene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Benzo[k]fluoranthene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Benzo[a]pyrene	BYK1257-BLK1	ND	mg/kg	0.10	0.015	
Benzo[g,h,i]perylene	BYK1257-BLK1	ND	mg/kg	0.10	0.056	
Benzoic acid	BYK1257-BLK1	ND	mg/kg	0.50	0.067	
Benzyl alcohol	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Benzyl butyl phthalate	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
alpha-BHC	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
beta-BHC	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
delta-BHC	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
gamma-BHC (Lindane)	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
bis(2-Chloroethoxy)methane	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
bis(2-Chloroethyl) ether	BYK1257-BLK1	ND	mg/kg	0.10	0.016	
bis(2-Chloroisopropyl)ether	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
bis(2-Ethylhexyl)phthalate	BYK1257-BLK1	ND	mg/kg	0.20	0.043	
4-Bromophenyl phenyl ether	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
4-Chloroaniline	BYK1257-BLK1	ND	mg/kg	0.10	0.027	
2-Chloronaphthalene	BYK1257-BLK1	ND	mg/kg	0.10	0.020	
4-Chlorophenyl phenyl ether	BYK1257-BLK1	ND	mg/kg	0.10	0.015	
Chrysene	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDD	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDE	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDT	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Dibenzo[a,h]anthracene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Dibenzofuran	BYK1257-BLK1	ND	mg/kg	0.10	0.020	
1,2-Dichlorobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.020	
1,3-Dichlorobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.021	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK1257						
1,4-Dichlorobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
3,3-Dichlorobenzidine	BYK1257-BLK1	ND	mg/kg	0.20	0.0067	
Dieldrin	BYK1257-BLK1	ND	mg/kg	0.10	0.031	
Diethyl phthalate	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Dimethyl phthalate	BYK1257-BLK1	ND	mg/kg	0.10	0.020	
Di-n-butyl phthalate	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
2,4-Dinitrotoluene	BYK1257-BLK1	ND	mg/kg	0.10	0.022	
2,6-Dinitrotoluene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Di-n-octyl phthalate	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
1,2-Diphenylhydrazine	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Endosulfan I	BYK1257-BLK1	ND	mg/kg	0.20	0.020	
Endosulfan II	BYK1257-BLK1	ND	mg/kg	0.20	0.021	
Endosulfan sulfate	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
Endrin	BYK1257-BLK1	ND	mg/kg	0.20	0.025	
Endrin aldehyde	BYK1257-BLK1	ND	mg/kg	0.50	0.022	
Fluoranthene	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
Fluorene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Heptachlor	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
Heptachlor epoxide	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
Hexachlorobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.016	
Hexachlorobutadiene	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
Hexachlorocyclopentadiene	BYK1257-BLK1	ND	mg/kg	0.10	0.019	
Hexachloroethane	BYK1257-BLK1	ND	mg/kg	0.10	0.020	
Indeno[1,2,3-cd]pyrene	BYK1257-BLK1	ND	mg/kg	0.10	0.072	
Isophorone	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
2-Methylnaphthalene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Naphthalene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
2-Naphthylamine	BYK1257-BLK1	ND	mg/kg	3.0	0.16	
2-Nitroaniline	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
3-Nitroaniline	BYK1257-BLK1	ND	mg/kg	0.20	0.015	
4-Nitroaniline	BYK1257-BLK1	ND	mg/kg	0.20	0.025	
Nitrobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.015	
N-Nitrosodimethylamine	BYK1257-BLK1	ND	mg/kg	0.10	0.037	
N-Nitrosodi-N-propylamine	BYK1257-BLK1	ND	mg/kg	0.10	0.021	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK1257						
N-Nitrosodiphenylamine	BYK1257-BLK1	ND	mg/kg	0.10	0.021	
Phenanthrene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
Pyrene	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
1,2,4-Trichlorobenzene	BYK1257-BLK1	ND	mg/kg	0.10	0.018	
4-Chloro-3-methylphenol	BYK1257-BLK1	ND	mg/kg	0.20	0.022	
2-Chlorophenol	BYK1257-BLK1	ND	mg/kg	0.10	0.016	
2,4-Dichlorophenol	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
2,4-Dimethylphenol	BYK1257-BLK1	ND	mg/kg	0.10	0.035	
4,6-Dinitro-2-methylphenol	BYK1257-BLK1	ND	mg/kg	0.50	0.012	
2,4-Dinitrophenol	BYK1257-BLK1	ND	mg/kg	0.50	0.0077	
2-Methylphenol	BYK1257-BLK1	ND	mg/kg	0.10	0.017	
3- & 4-Methylphenol	BYK1257-BLK1	ND	mg/kg	0.20	0.033	
Total Methylphenol	BYK1257-BLK1	ND	mg/kg	0.20	0.047	
2-Nitrophenol	BYK1257-BLK1	ND	mg/kg	0.10	0.016	
4-Nitrophenol	BYK1257-BLK1	ND	mg/kg	0.20	0.018	
Pentachlorophenol	BYK1257-BLK1	ND	mg/kg	0.20	0.013	
Phenol	BYK1257-BLK1	ND	mg/kg	0.10	0.016	
2,4,5-Trichlorophenol	BYK1257-BLK1	ND	mg/kg	0.20	0.018	
2,4,6-Trichlorophenol	BYK1257-BLK1	ND	mg/kg	0.20	0.017	
PCB-1248	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1254	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1232	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1221	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1260	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1262	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1268	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1242	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
PCB-1016	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
Total PCB's (Summation)	BYK1257-BLK1	ND	mg/kg	2.0	1.0	
2-Fluorophenol (Surrogate)	BYK1257-BLK1	101	%	20 - 130 (LCL - UCL)		
Phenol-d5 (Surrogate)	BYK1257-BLK1	90.6	%	30 - 130 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BYK1257-BLK1	122	%	30 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BYK1257-BLK1	110	%	30 - 140 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BYK1257-BLK1	100	%	20 - 150 (LCL - UCL)		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK1257						
p-Terphenyl-d14 (Surrogate)	BYK1257-BLK1	103	%	30 - 150 (LCL - UCL)		

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Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BYK1257										
Acenaphthene	BYK1257-BS1	LCS	1.6977	1.6447	mg/kg	103		50 - 130		
1,4-Dichlorobenzene	BYK1257-BS1	LCS	1.5944	1.6447	mg/kg	96.9		50 - 130		
2,4-Dinitrotoluene	BYK1257-BS1	LCS	1.7368	1.6447	mg/kg	106		50 - 130		
Hexachlorobenzene	BYK1257-BS1	LCS	1.7500	1.6447	mg/kg	106		40 - 130		
Hexachlorobutadiene	BYK1257-BS1	LCS	1.8036	1.6447	mg/kg	110		50 - 130		
Hexachloroethane	BYK1257-BS1	LCS	1.6257	1.6447	mg/kg	98.8		50 - 130		
Nitrobenzene	BYK1257-BS1	LCS	1.7220	1.6447	mg/kg	105		50 - 130		
N-Nitrosodi-N-propylamine	BYK1257-BS1	LCS	1.6993	1.6447	mg/kg	103		40 - 120		
Pyrene	BYK1257-BS1	LCS	1.8931	1.6447	mg/kg	115		40 - 150		
1,2,4-Trichlorobenzene	BYK1257-BS1	LCS	1.7224	1.6447	mg/kg	105		50 - 120		
4-Chloro-3-methylphenol	BYK1257-BS1	LCS	1.9543	1.6447	mg/kg	119		50 - 130		
2-Chlorophenol	BYK1257-BS1	LCS	1.4503	1.6447	mg/kg	88.2		50 - 130		
2-Methylphenol	BYK1257-BS1	LCS	1.4336	1.6447	mg/kg	87.2		50 - 130		
3- & 4-Methylphenol	BYK1257-BS1	LCS	3.0586	3.2895	mg/kg	93.0		50 - 130		
4-Nitrophenol	BYK1257-BS1	LCS	2.0171	1.6447	mg/kg	123		30 - 130		
Pentachlorophenol	BYK1257-BS1	LCS	1.4720	1.6447	mg/kg	89.5		20 - 130		
Phenol	BYK1257-BS1	LCS	1.3720	1.6447	mg/kg	83.4		40 - 120		
2,4,6-Trichlorophenol	BYK1257-BS1	LCS	1.7500	1.6447	mg/kg	106		50 - 130		
2-Fluorophenol (Surrogate)	BYK1257-BS1	LCS	1.3543	1.6447	mg/kg	82.3		20 - 130		
Phenol-d5 (Surrogate)	BYK1257-BS1	LCS	1.2497	1.6447	mg/kg	76.0		30 - 130		
Nitrobenzene-d5 (Surrogate)	BYK1257-BS1	LCS	1.5845	1.6447	mg/kg	96.3		30 - 130		
2-Fluorobiphenyl (Surrogate)	BYK1257-BS1	LCS	1.5438	1.6447	mg/kg	93.9		30 - 140		
2,4,6-Tribromophenol (Surrogate)	BYK1257-BS1	LCS	1.5980	1.6447	mg/kg	97.2		20 - 150		
p-Terphenyl-d14 (Surrogate)	BYK1257-BS1	LCS	0.73849	0.82237	mg/kg	89.8		30 - 150		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BYK1257		Used client sample: N								
Acenaphthene	MS	1524843-46	ND	1.8409	1.6611	mg/kg		111		30 - 140
	MSD	1524843-46	ND	1.7001	1.6502	mg/kg	8.0	103	30	30 - 140
1,4-Dichlorobenzene	MS	1524843-46	ND	1.6180	1.6611	mg/kg		97.4		50 - 130
	MSD	1524843-46	ND	1.5705	1.6502	mg/kg	3.0	95.2	30	50 - 130
2,4-Dinitrotoluene	MS	1524843-46	ND	1.7873	1.6611	mg/kg		108		50 - 130
	MSD	1524843-46	ND	1.6650	1.6502	mg/kg	7.1	101	30	50 - 130
Hexachlorobenzene	MS	1524843-46	ND	1.9159	1.6611	mg/kg		115		50 - 130
	MSD	1524843-46	ND	1.9308	1.6502	mg/kg	0.8	117	30	50 - 130
Hexachlorobutadiene	MS	1524843-46	ND	1.9331	1.6611	mg/kg		116		50 - 130
	MSD	1524843-46	ND	1.8383	1.6502	mg/kg	5.0	111	30	50 - 130
Hexachloroethane	MS	1524843-46	ND	1.6084	1.6611	mg/kg		96.8		50 - 130
	MSD	1524843-46	ND	1.6561	1.6502	mg/kg	2.9	100	30	50 - 130
Nitrobenzene	MS	1524843-46	ND	1.8492	1.6611	mg/kg		111		30 - 120
	MSD	1524843-46	ND	1.6789	1.6502	mg/kg	9.7	102	30	30 - 120
N-Nitrosodi-N-propylamine	MS	1524843-46	ND	1.6256	1.6611	mg/kg		97.9		20 - 130
	MSD	1524843-46	ND	1.6700	1.6502	mg/kg	2.7	101	30	20 - 130
Pyrene	MS	1524843-46	ND	2.0396	1.6611	mg/kg		123		40 - 140
	MSD	1524843-46	ND	1.9384	1.6502	mg/kg	5.1	117	30	40 - 140
1,2,4-Trichlorobenzene	MS	1524843-46	ND	1.8779	1.6611	mg/kg		113		50 - 130
	MSD	1524843-46	ND	1.7743	1.6502	mg/kg	5.7	108	30	50 - 130
4-Chloro-3-methylphenol	MS	1524843-46	ND	2.0776	1.6611	mg/kg		125		50 - 130
	MSD	1524843-46	ND	1.9587	1.6502	mg/kg	5.9	119	30	50 - 130
2-Chlorophenol	MS	1524843-46	ND	1.3931	1.6611	mg/kg		83.9		50 - 130
	MSD	1524843-46	ND	1.4831	1.6502	mg/kg	6.3	89.9	30	50 - 130
2-Methylphenol	MS	1524843-46	ND	1.4406	1.6611	mg/kg		86.7		50 - 130
	MSD	1524843-46	ND	1.4612	1.6502	mg/kg	1.4	88.6	30	50 - 130
3- & 4-Methylphenol	MS	1524843-46	ND	3.0449	3.3223	mg/kg		91.7		50 - 130
	MSD	1524843-46	ND	3.1297	3.3003	mg/kg	2.7	94.8	30	50 - 130
4-Nitrophenol	MS	1524843-46	ND	2.2361	1.6611	mg/kg		135		30 - 140
	MSD	1524843-46	ND	1.9485	1.6502	mg/kg	13.7	118	30	30 - 140
Pentachlorophenol	MS	1524843-46	ND	1.7679	1.6611	mg/kg		106		30 - 130
	MSD	1524843-46	ND	1.7191	1.6502	mg/kg	2.8	104	30	30 - 130
Phenol	MS	1524843-46	ND	1.3558	1.6611	mg/kg		81.6		40 - 150
	MSD	1524843-46	ND	1.4305	1.6502	mg/kg	5.4	86.7	30	40 - 150
2,4,6-Trichlorophenol	MS	1524843-46	ND	1.9353	1.6611	mg/kg		117		50 - 130
	MSD	1524843-46	ND	1.9095	1.6502	mg/kg	1.3	116	30	50 - 130

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BYK1257		Used client sample: N								
2-Fluorophenol (Surrogate)	MS	1524843-46	ND	1.3434	1.6611	mg/kg		80.9	20 - 130	
	MSD	1524843-46	ND	1.3225	1.6502	mg/kg	1.6	80.1	20 - 130	
Phenol-d5 (Surrogate)	MS	1524843-46	ND	1.2576	1.6611	mg/kg		75.7	30 - 130	
	MSD	1524843-46	ND	1.2493	1.6502	mg/kg	0.7	75.7	30 - 130	
Nitrobenzene-d5 (Surrogate)	MS	1524843-46	ND	1.5325	1.6611	mg/kg		92.3	30 - 130	
	MSD	1524843-46	ND	1.5721	1.6502	mg/kg	2.6	95.3	30 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1524843-46	ND	1.7092	1.6611	mg/kg		103	30 - 140	
	MSD	1524843-46	ND	1.5062	1.6502	mg/kg	12.6	91.3	30 - 140	
2,4,6-Tribromophenol (Surrogate)	MS	1524843-46	ND	1.8163	1.6611	mg/kg		109	20 - 150	
	MSD	1524843-46	ND	1.7315	1.6502	mg/kg	4.8	105	20 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1524843-46	ND	0.79479	0.83056	mg/kg		95.7	30 - 150	
	MSD	1524843-46	ND	0.79366	0.82508	mg/kg	0.1	96.2	30 - 150	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK0303						
Gasoline Range Organics (C4 - C12)	BYK0303-BLK1	ND	mg/kg	1.0	0.28	
a,a,a-Trifluorotoluene (FID Surrogate)	BYK0303-BLK1	125	%	70 - 130 (LCL - UCL)		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BYK0303											
Gasoline Range Organics (C4 - C12)	BYK0303-BS1	LCS	5.6940	5.0000	mg/kg	114		85 - 115			
a,a,a-Trifluorotoluene (FID Surrogate)	BYK0303-BS1	LCS	0.052000	0.040000	mg/kg	130		70 - 130			

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Purgeable Aromatics and 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	
QC Batch ID: BYK0303		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1524843-81	ND	5.3390	5.0000	mg/kg		107		70 - 130
	MSD	1524843-81	ND	5.6830	5.0000	mg/kg	6.2	114	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1524843-81	ND	0.046000	0.040000	mg/kg		115		70 - 130
	MSD	1524843-81	ND	0.043000	0.040000	mg/kg	6.7	108		70 - 130

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK1153						
TPH - Diesel (FFP)	BYK1153-BLK1	ND	mg/kg	10	1.2	
TPH - Motor Oil	BYK1153-BLK1	ND	mg/kg	20	6.5	
Tetracosane (Surrogate)	BYK1153-BLK1	76.0	%	20 - 145 (LCL - UCL)		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

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	
QC Batch ID: BYK1153										
TPH - Diesel (FFP)	BYK1153-BS1	LCS	77.007	84.175	mg/kg	91.5		64 - 124		
Tetracosane (Surrogate)	BYK1153-BS1	LCS	2.6237	3.3670	mg/kg	77.9		20 - 145		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

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	
QC Batch ID: BYK1153		Used client sample: N								
TPH - Diesel (FFP)	MS	1524843-99	ND	74.151	81.967	mg/kg		90.5		52 - 131
	MSD	1524843-99	ND	72.524	83.612	mg/kg	2.2	86.7	30	52 - 131
Tetracosane (Surrogate)	MS	1524843-99	ND	2.5177	3.2787	mg/kg		76.8		20 - 145
	MSD	1524843-99	ND	2.5595	3.3445	mg/kg	1.6	76.5		20 - 145

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK0893						
Antimony	BYK0893-BLK1	ND	mg/kg	5.0	0.33	
Arsenic	BYK0893-BLK1	ND	mg/kg	1.0	0.40	
Barium	BYK0893-BLK1	ND	mg/kg	0.50	0.18	
Beryllium	BYK0893-BLK1	ND	mg/kg	0.50	0.047	
Cadmium	BYK0893-BLK1	ND	mg/kg	0.50	0.052	
Chromium	BYK0893-BLK1	ND	mg/kg	0.50	0.050	
Cobalt	BYK0893-BLK1	ND	mg/kg	2.5	0.098	
Copper	BYK0893-BLK1	0.064001	mg/kg	1.0	0.050	J
Lead	BYK0893-BLK1	ND	mg/kg	2.5	0.28	
Molybdenum	BYK0893-BLK1	ND	mg/kg	2.5	0.050	
Nickel	BYK0893-BLK1	0.17444	mg/kg	0.50	0.15	J
Selenium	BYK0893-BLK2	ND	mg/kg	1.0	0.98	
Silver	BYK0893-BLK1	ND	mg/kg	0.50	0.067	
Thallium	BYK0893-BLK1	ND	mg/kg	5.0	0.64	
Vanadium	BYK0893-BLK1	ND	mg/kg	0.50	0.11	
Zinc	BYK0893-BLK1	0.23572	mg/kg	2.5	0.087	J
QC Batch ID: BYK0919						
Mercury	BYK0919-BLK1	ND	mg/kg	0.16	0.036	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BYK0893										
Antimony	BYK0893-BS1	LCS	103.28	100.00	mg/kg	103		75 - 125		
Arsenic	BYK0893-BS1	LCS	10.514	10.000	mg/kg	105		75 - 125		
Barium	BYK0893-BS1	LCS	105.81	100.00	mg/kg	106		75 - 125		
Beryllium	BYK0893-BS1	LCS	9.2023	10.000	mg/kg	92.0		75 - 125		
Cadmium	BYK0893-BS1	LCS	9.7278	10.000	mg/kg	97.3		75 - 125		
Chromium	BYK0893-BS1	LCS	97.930	100.00	mg/kg	97.9		75 - 125		
Cobalt	BYK0893-BS1	LCS	99.024	100.00	mg/kg	99.0		75 - 125		
Copper	BYK0893-BS1	LCS	98.465	100.00	mg/kg	98.5		75 - 125		
Lead	BYK0893-BS1	LCS	99.999	100.00	mg/kg	100		75 - 125		
Molybdenum	BYK0893-BS1	LCS	98.322	100.00	mg/kg	98.3		75 - 125		
Nickel	BYK0893-BS1	LCS	102.77	100.00	mg/kg	103		75 - 125		
Selenium	BYK0893-BS2	LCS	9.5726	10.000	mg/kg	95.7		75 - 125		
Silver	BYK0893-BS1	LCS	9.2868	10.000	mg/kg	92.9		75 - 125		
Thallium	BYK0893-BS1	LCS	112.07	100.00	mg/kg	112		75 - 125		
Vanadium	BYK0893-BS1	LCS	102.73	100.00	mg/kg	103		75 - 125		
Zinc	BYK0893-BS1	LCS	98.652	100.00	mg/kg	98.7		75 - 125		
QC Batch ID: BYK0919										
Mercury	BYK0919-BS1	LCS	0.82448	0.80000	mg/kg	103		80 - 120		

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery		Control Limits		Lab
							RPD	RPD	RPD	RPD	
QC Batch ID: BYK0893		Used client sample: Y - Description: SW19-d8.0 Excavation Sidewalls, 11/06/2015 17:51									
Antimony	DUP	1528602-21	ND	ND		mg/kg			20		
	MS	1528602-21	ND	39.408	100.00	mg/kg		39.4		16 - 119	
	MSD	1528602-21	ND	40.672	100.00	mg/kg	3.2	40.7	20	16 - 119	
Arsenic	DUP	1528602-21	2.1630	2.8032		mg/kg	25.8		20		A02
	MS	1528602-21	2.1630	12.487	10.000	mg/kg		103		75 - 125	
	MSD	1528602-21	2.1630	12.485	10.000	mg/kg	0.0	103	20	75 - 125	
Barium	DUP	1528602-21	355.89	388.49		mg/kg	8.8		20		
	MS	1528602-21	355.89	440.60	100.00	mg/kg		84.7		75 - 125	
	MSD	1528602-21	355.89	431.44	100.00	mg/kg	2.1	75.6	20	75 - 125	
Beryllium	DUP	1528602-21	0.52489	0.52440		mg/kg	0.1		20		
	MS	1528602-21	0.52489	8.8646	10.000	mg/kg		83.4		75 - 125	
	MSD	1528602-21	0.52489	8.9405	10.000	mg/kg	0.9	84.2	20	75 - 125	
Cadmium	DUP	1528602-21	ND	ND		mg/kg			20		
	MS	1528602-21	ND	8.5876	10.000	mg/kg		85.9		75 - 125	
	MSD	1528602-21	ND	8.5205	10.000	mg/kg	0.8	85.2	20	75 - 125	
Chromium	DUP	1528602-21	24.805	24.959		mg/kg	0.6		20		
	MS	1528602-21	24.805	114.83	100.00	mg/kg		90.0		75 - 125	
	MSD	1528602-21	24.805	116.19	100.00	mg/kg	1.2	91.4	20	75 - 125	
Cobalt	DUP	1528602-21	7.5852	7.2020		mg/kg	5.2		20		
	MS	1528602-21	7.5852	92.575	100.00	mg/kg		85.0		75 - 125	
	MSD	1528602-21	7.5852	92.161	100.00	mg/kg	0.4	84.6	20	75 - 125	
Copper	DUP	1528602-21	12.209	12.154		mg/kg	0.4		20		
	MS	1528602-21	12.209	101.76	100.00	mg/kg		89.6		75 - 125	
	MSD	1528602-21	12.209	102.38	100.00	mg/kg	0.6	90.2	20	75 - 125	
Lead	DUP	1528602-21	7.2784	7.0276		mg/kg	3.5		20		
	MS	1528602-21	7.2784	99.495	100.00	mg/kg		92.2		75 - 125	
	MSD	1528602-21	7.2784	99.348	100.00	mg/kg	0.1	92.1	20	75 - 125	
Molybdenum	DUP	1528602-21	ND	ND		mg/kg			20		
	MS	1528602-21	ND	74.428	100.00	mg/kg		74.4		75 - 125	Q03
	MSD	1528602-21	ND	75.715	100.00	mg/kg	1.7	75.7	20	75 - 125	
Nickel	DUP	1528602-21	28.908	28.297		mg/kg	2.1		20		
	MS	1528602-21	28.908	117.75	100.00	mg/kg		88.8		75 - 125	
	MSD	1528602-21	28.908	118.19	100.00	mg/kg	0.4	89.3	20	75 - 125	
Selenium	DUP	1528602-21	ND	ND		mg/kg			20		
	MS	1528602-21	ND	11.452	10.000	mg/kg		115		75 - 125	
	MSD	1528602-21	ND	11.508	10.000	mg/kg	0.5	115	20	75 - 125	
Silver	DUP	1528602-21	0.21107	0.21632		mg/kg	2.5		20		J
	MS	1528602-21	0.21107	8.7159	10.000	mg/kg		85.0		75 - 125	
	MSD	1528602-21	0.21107	8.6982	10.000	mg/kg	0.2	84.9	20	75 - 125	

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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYK0893		Used client sample: Y - Description: SW19-d8.0 Excavation Sidewalls, 11/06/2015 17:51								
Thallium	DUP	1528602-21	0.87074	ND		mg/kg			20	
	MS	1528602-21	0.87074	91.450	100.00	mg/kg		90.6		75 - 125
	MSD	1528602-21	0.87074	90.581	100.00	mg/kg	1.0	89.7	20	75 - 125
Vanadium	DUP	1528602-21	32.653	33.142		mg/kg	1.5		20	
	MS	1528602-21	32.653	126.69	100.00	mg/kg		94.0		75 - 125
	MSD	1528602-21	32.653	128.56	100.00	mg/kg	1.5	95.9	20	75 - 125
Zinc	DUP	1528602-21	36.128	37.085		mg/kg	2.6		20	
	MS	1528602-21	36.128	125.80	100.00	mg/kg		89.7		75 - 125
	MSD	1528602-21	36.128	128.29	100.00	mg/kg	2.0	92.2	20	75 - 125
QC Batch ID: BYK0919		Used client sample: N								
Mercury	DUP	1528651-01	ND	ND		mg/kg			20	
	MS	1528651-01	ND	0.81954	0.76923	mg/kg		107		80 - 120
	MSD	1528651-01	ND	0.81569	0.76923	mg/kg	0.5	106	20	80 - 120

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EMSL Analytical, Inc.

2001 East 52nd St. Indianapolis, IN 46205
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http://www.EMSL.com /indianapolislab@emsl.com

EMSL Order: 161519727
Customer ID: BCLA50
Customer PO:
Project ID:

Attention: Kerri Vaughn
BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
Project: 1528601
Phone: (661) 327-4911
Fax: (661) 327-1918
Received Date: 11/17/2015 10:15 AM
Analysis Date: 11/23/2015
Collected Date:

Test Report: OSHA ID-191 Polarized Light Microscopy of Asbestos in Bulk
Materials Issued October 1992, Revised February 1995

Table with 6 columns: Sample, Description, Appearance, % Fibrous, Non-Asbestos (% Non-Fibrous), Asbestos (% Type). Contains two rows of sample data.

Analyst(s)
Melissa Newkirk (2)

Richard H. Harding
Richard Harding, Laboratory Manager
or Other Approved Signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial Report From: 11/23/2015 09:34:20



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

Reported: 11/24/2015 16:28
Project: GIG
Project Number: GIG Excavation
Project Manager: Jennifer Brady

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A52 Chromatogram not typical of diesel.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.