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December 29, 2010

Mr. Jerry Wickham  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Reference:** ACEH Case No. RO0002959, Geotracker Global ID SLT19761201

**Subject:** Site Assessment Report, 5901 MacArthur Blvd, Oakland, CA

Dear Mr. Wickham:

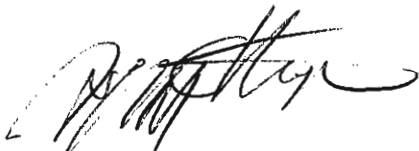
Attached is a *Site Assessment Report* (December 27, 2010) prepared by OTG EnviroEngineering Solutions, Inc. for the site located at 5901 MacArthur Blvd, Oakland, California. Funding for the project has been provided in full or in part by the American Recovery and Reinvestment Act of 2009 (ARRA) and the Orphan Site Cleanup Fund (OSCF), through an agreement with the California State Water Resources Control Board.

**Certification**

“I agree with the conclusions and recommendations presented in the attached document. I declare, under penalty of perjury, that the information and recommendations contained in the attached document is true and correct to the best of my knowledge”.

Please contact the undersigned at (510) 301-1600 if you have questions or comments.

Sincerely,



Jeffrey C. Huynh, Trustee  
Huynh Cheng Family Living Trust  
1501 Darius Court  
San Leandro, CA 94577

# **SITE ASSESSMENT REPORT**

**For Site Located At  
5901 MACARTHUR BLVD.  
OAKLAND, CALIFORNIA**

Prepared for

**Huynh Cheng Family Living Trust  
1501 Darius Court  
San Leandro, CA 94577**

December 27, 2010

Prepared by

**OTG**

**Enviroengineering  
Solutions, Inc.**

7700 Edgewater Drive, Suite 260  
Oakland, CA 94621

December 27, 2010

Mr. Jerry Wickham  
Hazardous Materials Specialist  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

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**Subject:** Site Assessment Report, 5901 MacArthur Blvd, Oakland, CA

Dear Mr. Wickham:

On behalf of the property owner – Huynh Cheng Family Living Trust, OTG EnviroEngineering Solutions, Inc. (OTG) is pleased to submit this *Site Assessment Report* for the site located at 5901 MacArthur Blvd, Oakland, California. Funding for the project has been provided in full or in part by the American Recovery and Reinvestment Act of 2009 (ARRA) and the Orphan Site Cleanup Fund (OSCF), through an agreement with the California State Water Resources Control Board.

**Certification**

“I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge”.

Please contact the undersigned at (510) 465-8982 if you have questions or comments.

Sincerely,  
**OTG EnviroEngineering Solutions, Inc.**



Xinggang Tong, PhD, PE  
Project Manager



cc: Jeffrey Huynh, 1501 Darius Ct, San Leandro, CA 94577

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## 1. INTRODUCTION

This Site Assessment Report presents the results of soil and groundwater sampling and analyses conducted between August 30 and September 1, 2010 at the site located at 5901 MacArthur Blvd, Oakland, California (the Site, Figure 1). The work was performed in accordance with a Site Investigation Work Plan (OTG, October 9, 2009), which was approved by the Alameda County Environmental Health (ACEH), and additional comments from the ACEH (January 26 and March 16, 2010) and from the State Water Resources Control Board (SWRCB) Financial Assistance Division Technical Support Group (March 22, 2010).

**Funding for this project has been provided in full or in part by the American Recovery and Reinvestment Act of 2009 (ARRA) and the Orphan Site Cleanup Fund (OSCF), through an agreement with the California State Water Resources Control Board (SWRCB). The contents of this document do not necessarily reflect the views and policies of the SWRCB, nor does mention of trade names or commercial products constitute endorsement or recommendation for use. (Gov. Code §7550).**

### 1.1 Site Location

This currently vacant lot is located in Alameda County at 5901 MacArthur Boulevard (Blvd.) in Oakland, California (Figure 1). It occupies the southwest corner of MacArthur Blvd. and Seminary Avenue intersection and has the size of approximately 0.3 acre. It is located in projected Section 10, T2S, R3W, of the Mount Diablo Baseline and Meridian (MDB&M) at an elevation of approximately 92 feet above mean sea level (msl).

As shown on Figure 2, the Site is located in a mixed use area. An active auto service station is located to the East-Northeast across MacArthur Blvd (currently a Valero branded station, but was formerly Chevron Service Station #9-9708). To the North-Northwest across Seminary Avenue is Mills College Campus. A paved parking lot is located next to and southwest of the Site, and a mix of shops and residential houses are to the south and southeast. The Site itself is targeted for residential redevelopment.

### 1.2 Site Geology and Hydrogeology

The site is situated at the base of the northwest-southeast trending foothills of the Coast Range. It is located on relatively flat lying sediments that slope southwest at a gradient of approximately 65 feet/mile.

Lion Creek historically ran through the site (Figure 2). A concrete culvert was constructed in the creek bed in the early 1900s and the creek was then filled to create the present Site and many other sites along the creek path. The section of the concrete culvert beneath the Site is about 12 feet in width and eight feet in height. The roof of the culvert is approximately nine feet below ground surface (bgs). The culvert was abandoned in place in 2000 when a new culvert was constructed beneath the Seminary Avenue to replace the old one (Figure 2).

As discussed in details in Section 2 below, environmental investigations were conducted at the site from 1987 to 1997 and then in 2007. The 30-foot section tested beneath the site generally consists of stiff dark brown clay that is bisected by a thin sand and gravel layer, first encountered at approximately 15 feet bgs. Fill materials are recognized at some drilling locations down to about 10 feet bgs. The sand and gravel layer is approximately 2 feet thick and forms a shallow water-bearing zone between 9 feet and 17 feet bgs. The shallow zone water flows in a west to southwest direction. However, the hydrogeologic data was collected when the culvert beneath the Site was still carrying the Lion Creek water. The water level beneath the site may have changed after the culvert was abandoned in 2000 and the creek water has since been rerouted to a new off-site culvert beneath the Seminary Avenue.

## 2. HISTORY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

Wickland Oil Company operated Regal Service Station #404 on the property from unknown time to May 1987 when fueling services ceased operation. All buildings, underground storage tanks (USTs) and associated piping, and pavement were removed by 1997. The site has since been vacant.

### 2.1 Environmental Activities from 1987 through 1997

According to the *Remedial Action Completion Certification* issued on August 29, 1997 by the Alameda County Environmental Health (ACEH), the following four USTs (single-walled steel tanks) once existed on the property (Figure 3):

Tank No:	Size (gallons)	Content	Date Removed
1	10,000	Regular gasoline	5/18/87
2	8,000	Unleaded gasoline	5/18/87
3	6,000	Premium gasoline	5/18/87
4	550	waste oil	2/24/93

Holes were noted on USTs #2 and #4 upon their removal. Six (6) soil samples were collected beneath the gasoline USTs (one from each end of the three USTs) and one soil sample was collected beneath the waste oil tank at the time of their removal. Sample locations are shown on Figure 3. Analytical results are summarized in Table 1. Gasoline (TPH-g) was reported up to 310 mg/kg and benzene up to 6.4 mg/kg in the gas tank excavation pit. The soil sample collected within the waste oil tank excavation pit was analyzed for gasoline (TPH-g), kerosene (TPH-k), and diesel (TPH-d) by modified EPA Method 8015; BTEX by EPA Method 8020; oil & grease by SM 5520; volatile organic compounds (VOCs) by EPA Method 8240; semi-VOCS (SVOCs) by EPA Method 8270; LUFT five metals by EPA 7000-Series Methods. Except toluene which was reported at 0.012 mg/kg, no other individual VOCs and SVOCs were detected at or above their respective reporting limits (Table 1). TPH diesel was reported at 17 mg/kg, TPH kerosene at 4 mg/kg, and TPH gas at below reporting limit (<1.0 mg/kg).



No further investigation beyond the initial soil sampling within the gasoline-UST excavation pit was conducted until October 5, 1992 when the local regulatory agency ACEH issued a letter to the property owner (Wickland Properties) requesting a Preliminary Site Assessment. The following four shallow groundwater monitoring wells were installed and then destroyed:

Well ID	Total Depth (feet)	Well Dia (inches)	Screen Levels (feet, bgs)	Water Levels (feet, bgs)	Date of Installation	Date of Destruction
MW-1	25	4	9 – 24	13.2 – 14.5	10/27/93	11/11/97
MW-2	20	4	10 - 20	13.8 – 14.4	10/4/95	11/11/97
MW-3	20	4	10 – 20	13.4 – 14.6	10/4/95	11/11/97
MW-4	20	2	10 - 20	12.1 – 19.0	10/4/95	11/11/97

Soil samples were collected at various depths at the time of well installation and were analyzed for TPH gas, diesel and BTEX (Blakely Environmental Investigation, Inc, January 4, 1997). Results are summarized in Table 1. Except the soil sample collected at 10 feet bgs from MW-4, which had TPH gas at 5,100 mg/kg and TPH diesel at 840 mg/kg, all other soil samples had either no detection or minor detections of TPH gas (<30 mg/kg), TPH diesel (≤100 mg/kg), and benzene (<0.1 mg/kg). Results are summarized in Table 1.

Groundwater samples were collected from the four wells periodically by Western Geo-Engineers for TPH gas, diesel, and BTEX analysis and results are summarized in Table 2. The last round of groundwater samples were collected on September 4, 1996 (before well closure) and the highest reported TPH gas concentration was 1,100 ug/L from MW-1, the highest TPH diesel was 150 ug/L from MW-2, and the highest benzene was 51 ug/L from MW-1 (Western Geo-Engineers, September 19, 1996).

At the time of the waste oil tank removal on February 24, 1993, approximately 54 cubic yards of contaminated soil was removed and stockpiled on site. The soil was transported to B&J landfill in Vacaville, CA on November 19, 1997 for disposal. No other active soil and/or groundwater remediation was reported.

On behalf of Wickland Properties, Blakely Environmental Investigation, Inc. submitted a closure request on January 4, 1997 and again on April 29, 1997. ACEH approved the closure request by issuing a REMEDIAL ACTION COMPLETION CERTIFICATION dated August 29, 1997. When the State adopted the GeoTracker system, this case was assigned a Global ID T0600101300 and the case is listed as closed in the GeoTracker system. The four monitoring wells were destroyed on November 11, 1997 with the approval of ACEH.

## 2.2 Additional Investigation in 2007

After the UST case was closed by ACEH, Wickland Properties (a subsidiary of Wickland Oil Company) sold the vacant lot to Daniel S. and Belia Franko, Sr. on April 7, 2000, who then sold the property to Jeffrey Huynh and Anna Cheng on September 27, 2002. When Jeffrey

Huynh and Anna Cheng submitted a development plan to the City of Oakland in July 2006, the City requested a soil and groundwater sampling be conducted to verify the level of petroleum hydrocarbons remaining at the property.

On June 20, 2007, OTG EnviroEngineering Solutions, Inc. (OTG) drilled five boreholes (TB-1 through TB-5, Figure 3) using a Geoprobe 6600, a direct-push rig, and collected continuous cores of soil columns from each borehole. TB-1, TB-4, and TB-5 were drilled to 20 feet bgs, and TB-2 and TB-3 were to 24 feet bgs. Groundwater was first encountered at 15 feet bgs in TB-4, but it was dry at the other four boreholes. TPH-g was reported at 1,620 ug/L in groundwater and up to 2,890 ppm in soil, and TPH-d at 1,000 ug/L in groundwater and up to 440 ppm in soil. Results are summarized in Table 3. After reviewing the June 2007 sampling data, the City of Oakland Fire Department referred the case back to the County (ACEH) and the County opened a new case number for the Site (County new case # RO0002959 and a new Geotracker Global ID SLT19761201). On June 25, 2008, ACEH issued a letter to Mr. Huynh and Ms. Cheng requiring further site characterization. A Site Investigation Work Plan (OTG, October 9, 2009) was prepared and submitted following the ACEH's request.

### **3. SITE ASSESSMENT PROGRAM**

The actual locations of several boreholes were different from their original planned locations. Figure 3a illustrates locations of planned boreholes and Figure 3 shows the final sampling locations. NW-1 through NW-10 were approved by the ACEH. They were drilled at their planned locations, except NW-7, which was relocated to near the planned ASB-7 location due to refusal at its original location (Figure 3). NW-6 and NW-9 were also moved slightly due to refusal at their planned locations as shown on Figure 3. SB-1 through SB-5 were requested by the SWRCB Financial Assistance Division Technical Support Group (TSG). When field screening of soil samples from NW-4, SB-2, and SB-3 indicated the presence of volatile organic compounds (VOCs), SB-4 was relocated to near NW-4 to better characterize potential contamination in that area. ASB-1 through ASB-9 were proposed by TSG and their need and locations depend on results from NW- and SB-series borings. Because soil samples from SB-1 and NW-5 reported petroleum hydrocarbon concentrations significantly below their residential Environmental Screening Levels (ESLs), ASB-1, ASB-2, ASB-8, and ASB-9 were not drilled. The addition of ASB-10, together with the relocation of ASB-5 and ASB-7 to the southeastern side of the underground culvert is to assess potential migration of the detected hydrocarbons from the northwestern side of the culvert.

A total of 21 temporary borings were successfully drilled between August 30 and September 1, 2010. Nine additional boreholes were abandoned without sampling due to refusal at various depths. Their locations are identified on Figure 3. Investigation procedures are described below.

- Pre-drilling details included: developing a site health and safety plan; obtaining a soil boring permit from Alameda County Public Works Agency Water Resources Section (Appendix A); and underground utility clearance (contacting Underground Services Alert [USA], and contracting to an independent utility locator to clear drilling locations).
- The soil borings were drilled with a Geoprobe 7822DT, a direct-push rig, from which continuous cores of soil columns were collected and logged by an onsite civil engineer. Boring logs are included in Appendix B.
- The soil cores were screened with an OVA/PID (miniRae 2000 equipped with a 10.6eV lamp) to evaluate volatile TPH levels. The PID was calibrated daily with 100 ppm isobutylene standard (in air). Soil samples from selected depths of each boring based on field observations and PID screening were collected for laboratory analyses.
- Total boring depths varied from 15 feet at NW-6 to 27.5 feet at ASB-6. The first two drilling locations at NW-6 encountered refusal at 10 feet below ground surface (bgs) and were abandoned (Figure 3). The third location encountered refusal at 15 feet bgs. Due to the third location is already close to SB-2 and ASB-3, no further drilling was attempted at NW-6. Groundwater was encountered at NW-2, NW-4, NW-7, NW-9, SB-2, SB-3, and ASB-4. It was dry at all other boring locations. When encountered, groundwater levels varied between 14 and 15 feet bgs.
- To collect groundwater samples, a temporary screened well casing (1"-diameter, Schedule 40 PVC) was inserted into each well, within which a grab groundwater sample was collected using a new and disposable bailer.
- The collected grab groundwater samples and the selected soil samples were submitted to TestAmerica – Pleasanton, California Laboratory (a State of California certified environmental analytical laboratory) under chain-of-custody protocol for analysis of BTEX, EDB, EDC, five fuel oxygenates, TPH-g, and TPH-d & mo. Laboratory analytical results are summarized in Table 4. Laboratory analytical reports are included in Appendix C.
- At the end of each day of drilling, all boreholes were backfilled with neat cement/bentonite grout from total depth to land surface following the County borehole sealing requirements.
- Soil cuttings and decontamination and purge water were stored in a central on-site location in properly labeled DOT approved 55-gallon drums, which were transported to Evergreen Oil Inc. of Newark, CA for recycling by Bayview Environmental Services on October 4, 2010.

#### **4. RESULTS OF SITE ASSESSMENT**

Groundwater and soil analytical results are summarized in Tables 4 and 5, along with relevant Environmental Screening Levels (ESLs; RWQCB, May 2008) for both residential and commercial site uses. Boring logs are included in Appendix B.

## 4.1 Hydrogeology

Fill materials, mainly a mixture of base aggregates, concrete, sand, and silt in various proportions, was observed to as deep as 15 feet bgs (ASB-3). Figure 4 is a cross section drawing of the site from Southwest to Northeast (A-A' Cross Section). A thin layer (as thin as six inches at ASB-3) of dark green to dark brown gravelly silty sands/clayey silt was noted between 10 feet and 16 feet bgs. Groundwater was encountered within the thin layer at approximately 14 to 15 feet bgs in seven of the 21 boreholes. Beneath this thin water-bearing layer was a brown to yellowish brown stiff silty clay layer to 27.5 feet bgs, which was the maximum drilling depth of this investigation.

The seven boreholes with groundwater were all located near and on the northwestern side of the abandoned culvert, except MW-9 which is located on southeastern side of the culvert. ASB-5, ASB-7, and ASB-10, which were located close to the culvert, but in the southeastern side, were dry to 25 feet bgs. It appears that a preferential path exists near and along the northwestern side of the culvert.

## 4.2 Groundwater Analytical Results

Groundwater analytical results are presented in Table 4. Concentrations of BTEX, fuel oxygenates and additives were either below their respective laboratory reporting limits or significantly below their respective residential ESLs. In particular, benzene was below reporting limits in all seven groundwater samples, including duplicates from NW-4 and ASB-4.

TPH-g and TPH-d detections are shown on Figures 5 and 6, respectively. NW-7, which is located upgradient based on historical groundwater flow direction, reported the highest concentration of TPH-g (11,000 ug/L) and TPH-d (9,100 ug/L). Their distribution in groundwater suggests upgradient offsite source(s). Except SB-2, the detected concentrations of TPH-g and TPH-d from the other six locations were all significantly exceeded their respective residential or commercial ESLs.

## 4.3 Soil Analytical Results

Soil analytical results are summarized in Table 5. Consistent with groundwater analytical results, benzene was not detected at or above its laboratory reporting limit (as low as 0.005 mg/kg) in any of the 85 soil samples analyzed and all other individual chemicals (BTEX, fuel oxygenates and additives) were either below their respective laboratory reporting limits or significantly below their respective residential ESLs.

TPH-g and TPH-d contamination in soil was much less extensive than in groundwater. In fact, TPH-g was only reported in 13 of the 85 soil samples. Of the 13 with TPH-g detections, only two samples (NW-4-15 at 280 mg/kg and NW-7-15 at 860 mg/kg) had concentrations exceeded its residential ESL for soil with depth greater than 10 feet below grade. The 13 samples with TPH-g detection were all located at the depths between 13 and 15 feet below grade. Although TPH-d was detected in soil samples at higher frequency than TPH-g, only four samples had TPH-d concentration exceeded its residential ESL (SB-3-15 at 480 mg/kg, NW-4-15 at 740 mg/kg, NW-8-5 at 340 mg/kg, and ASB-6-5 at 140 mg/kg). TPH-g and TPH-d detections in soil samples between 13 feet and 15 feet below grade are illustrated in Figures 7 and 8.

TPH-d and TPH-mo (motor oil) exceeded their respective residential ESLs in two shallow soil samples collected from 5 feet below grade: NW-8-5 (340 mg/kg and 1,700 mg/kg, respectively) and ASB-6-5 (140 mg/kg and 890 mg/kg, respectively).

## 5. DISCUSSIONS AND RECOMMENDATIONS

A Valero-branded active gas station is located across the street from the Site at 5910 MacArthur Blvd (Figure 2). It was formerly Chevron Service Station #9-9708. A review of the ACEH and the State GeoTracker electronic files indicated that a leaking underground storage tank (LUST) case was opened for the Chevron Site in 1997, the same year the case for the Site was closed. The Chevron Site has a State GeoTracker No. T0600102093 and an ACEH Case # RO0000124.

Based on groundwater contour and potentiometric maps presented for the Chevron Site as measured on 7 September 1998, 29 December 1998, and 29 September 1999, the groundwater flowed in a southwestern direction and the Chevron Site was upgradient from the Site. This is consistent with the groundwater gradient measured on the Site prior to its case closure in 1997. However, after the Lion Creek culvert was relocated to beneath the Seminary Avenue in 2000 (Figure 2), the groundwater flow appeared to have been altered toward the new culvert in west to northwest directions based on groundwater monitoring conducted at the Chevron Site in recent years.

NW-7, which is located upgradient from all former USTs on the Site, reported the highest groundwater concentration of TPH-g (11,000 ug/L) and TPH-d (9,100 ug/L). The TPH-g and TPH-d contamination contour drawings shown on Figure 5 and 6 suggest that they could have come from the Chevron Site.

The Site provided only gasoline fueling services and the three former fuel USTs were all for gasoline storage (Figure 3). The former waste oil UST was located downgradient on the southeastern side of the culvert. An on-site groundwater monitoring well (MW-3) was located

downgradient of the former waste oil UST. Prior to its closure in November 1997, its groundwater concentrations of TPH-g, TPH-d, and BTEX were all below their respective laboratory reporting limits. Therefore, the detected relatively high concentrations of TPH-d in groundwater in this round of investigation were highly unlikely originated from the former on-site waste oil UST.

The Chevron Site monitoring well MW-5 is located upgradient of the Site on the southeastern side of the culvert (Figure 3). This well has been monitored regularly for TPH-g, BTEX, MTBE, and ethanol since March 2002. However, TPH-d was never analyzed. Since the shallow groundwater appears to have a preferential path near and along the northwestern side of the culvert, it is recommended that the Chevron Site install a new monitoring well on the opposite side of the culvert from its MW-5. Both the new well and MW-5 should be monitored for TPH-g, TPH-d, TPH-mo, BTEX, and other constituents as deemed necessary.

It is recommended that monitoring wells be installed near borings of NW-1, NW-2, NW-4, NW-6, NW-7, NW-9, SB-5 for groundwater quality and gradient monitoring.

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
Western Geo-Engineers, Waste Oil Tank Excavation Sample Report for former Regal Station #404, April 7, 1993.



PROJECT NO. 10HCT02	5901 MacArthur Blvd Oakland, CA	SITE LOCATION MAP	FIGURE 1
OTG EnviroEngineering Solutions Inc.			

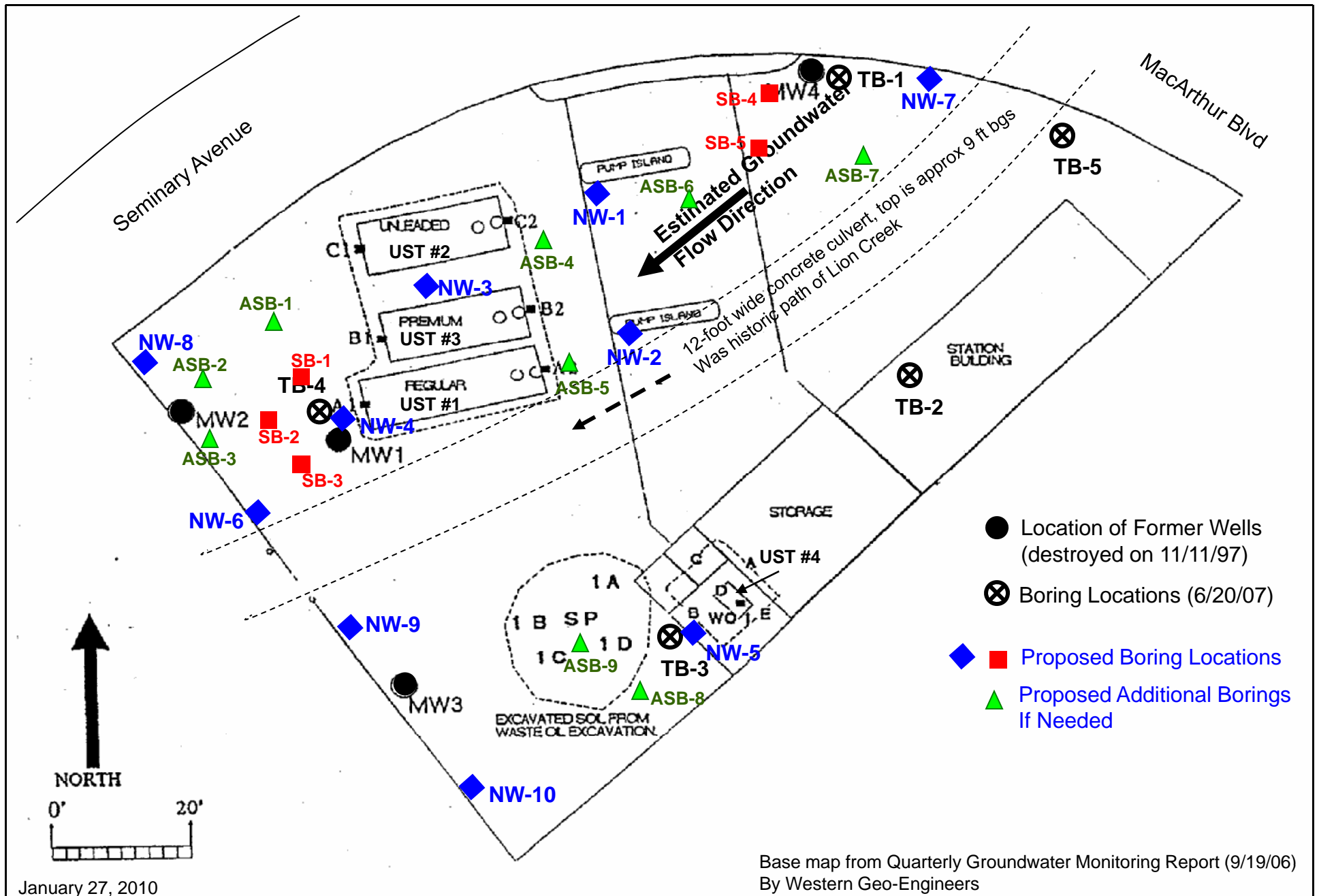


**LEGEND:**

-  Existing groundwater monitoring wells installed by the active gas station at 5910 MacArthur Blvd. (Chevron Service Station #9-9708)

October 2010

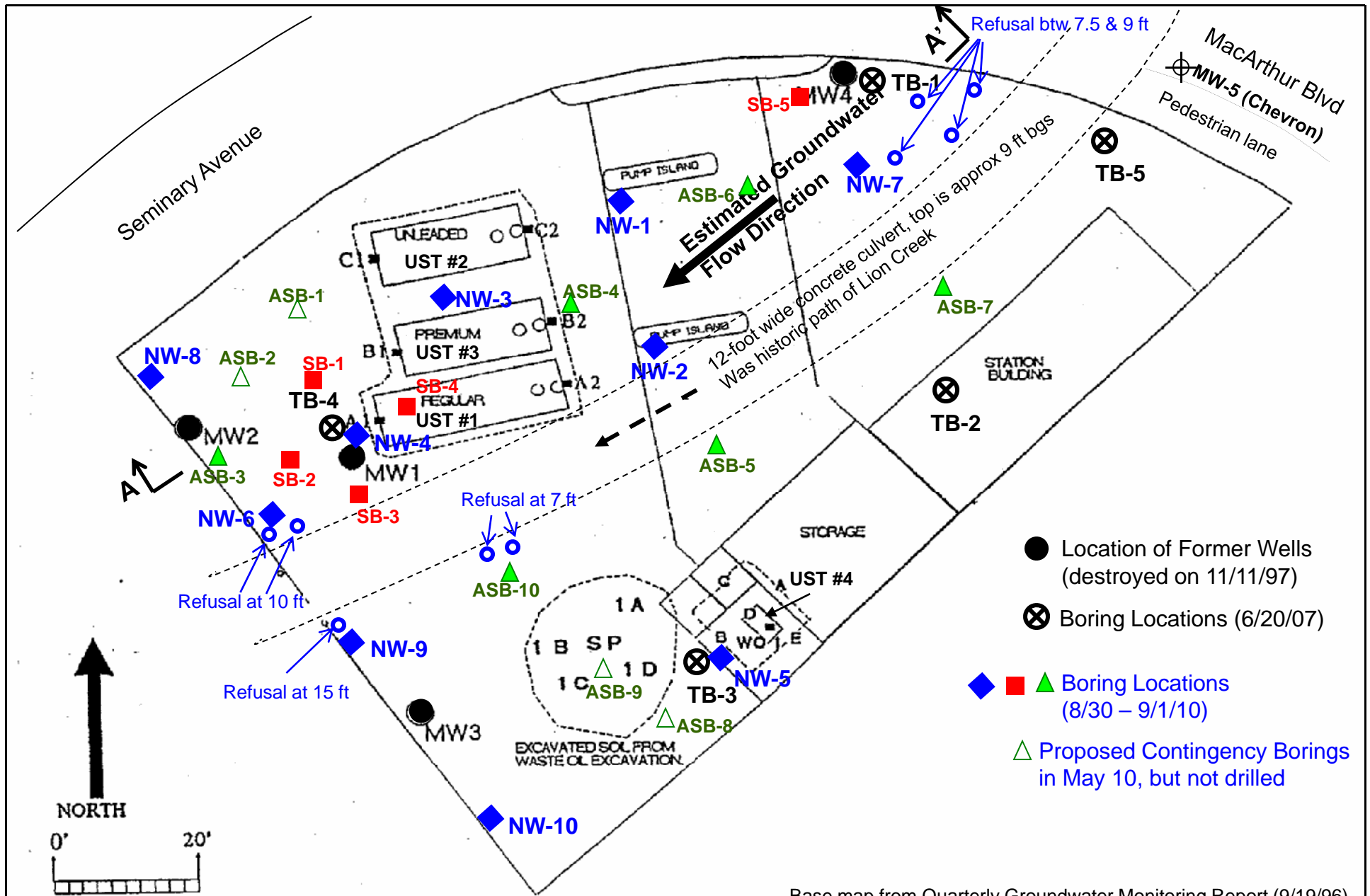
<p><b>PROJECT NO.</b> 10HCT02.2000</p>	<p><b>5901 MacArthur Blvd</b> <b>Oakland, CA</b></p>	<p><b>VICINITY AERIAL MAP</b> &amp; Locations of Storm Drain Culverts &amp; Active Monitoring Wells from the Gas Station Across MacArthur Blvd.</p>	<p><b>FIGURE 2</b></p>
<p><b>OTG EnviroEngineering Solutions Inc.</b></p>			



Base map from Quarterly Groundwater Monitoring Report (9/19/06)  
By Western Geo-Engineers

January 27, 2010

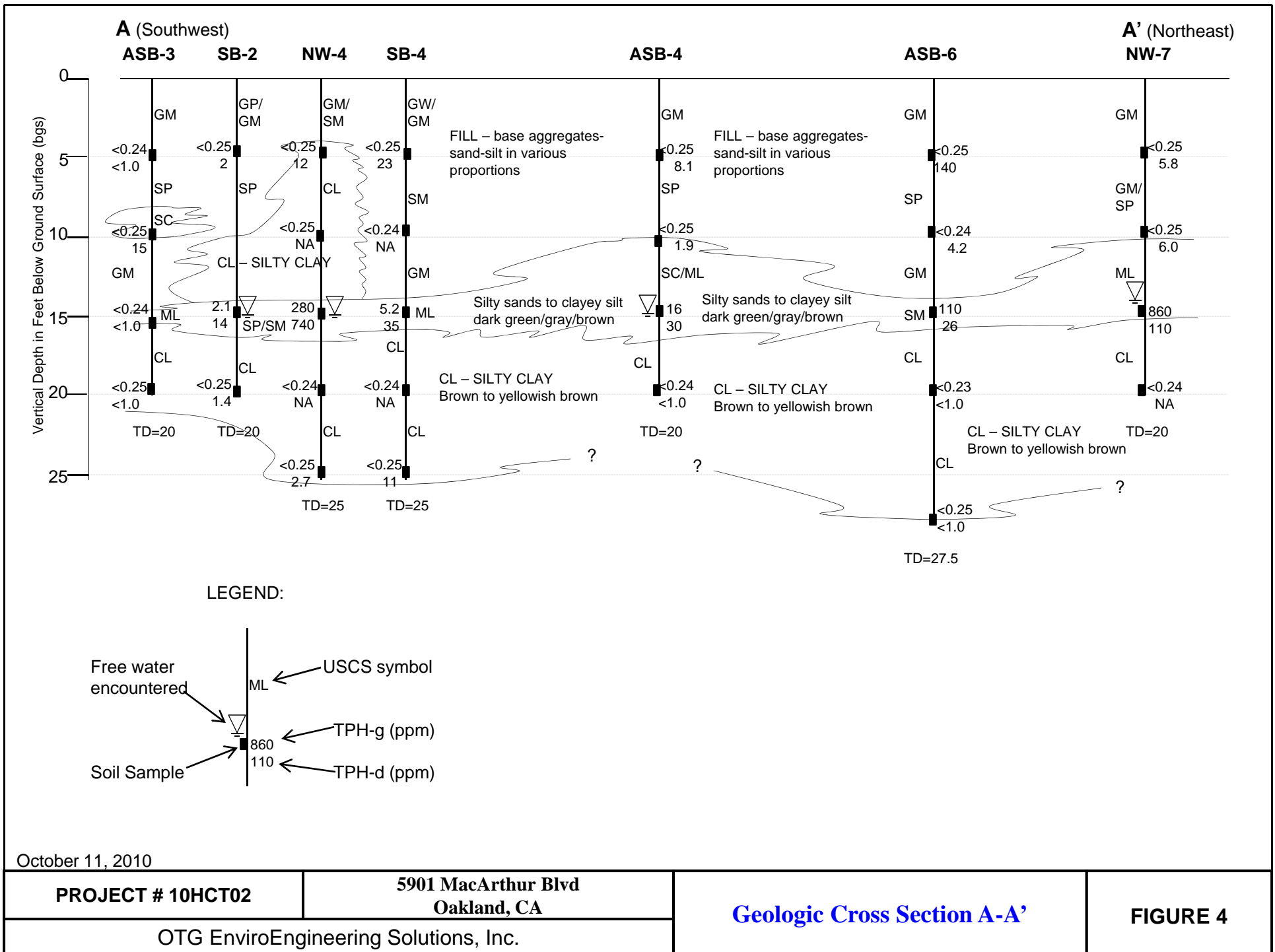
PROJECT NO.	5901 MacArthur Blvd Oakland, CA	SITE PLAN & PROPOSED BORING LOCATIONS	FIGURE 3a

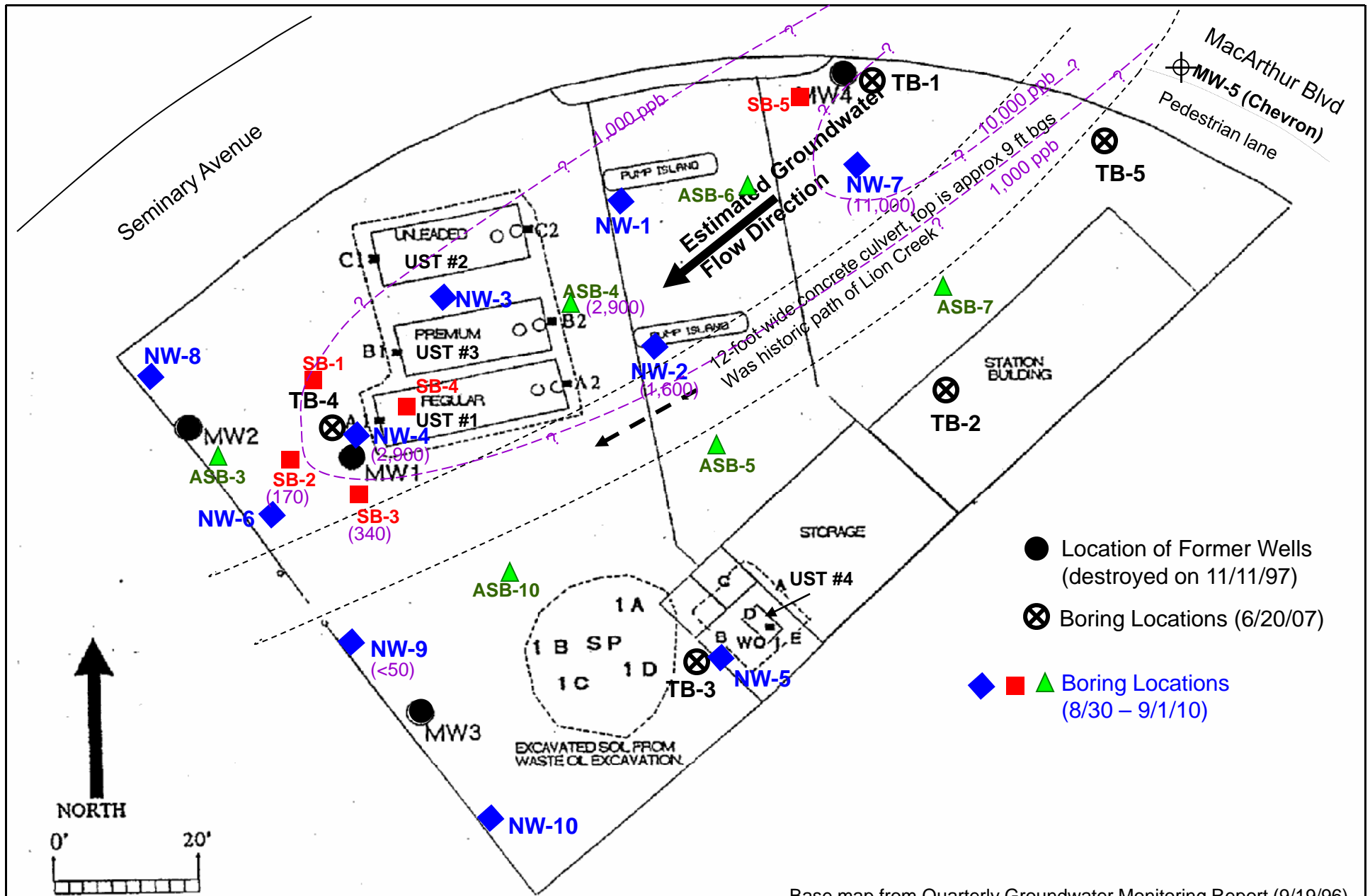


Base map from Quarterly Groundwater Monitoring Report (9/19/96)  
By Western Geo-Engineers

October 11, 2010

PROJECT # 10HCT02	5901 MacArthur Blvd Oakland, CA	<b>SITE PLAN &amp; BORING LOCATIONS</b>	<b>FIGURE 3</b>
OTG EnviroEngineering Solutions, Inc.			

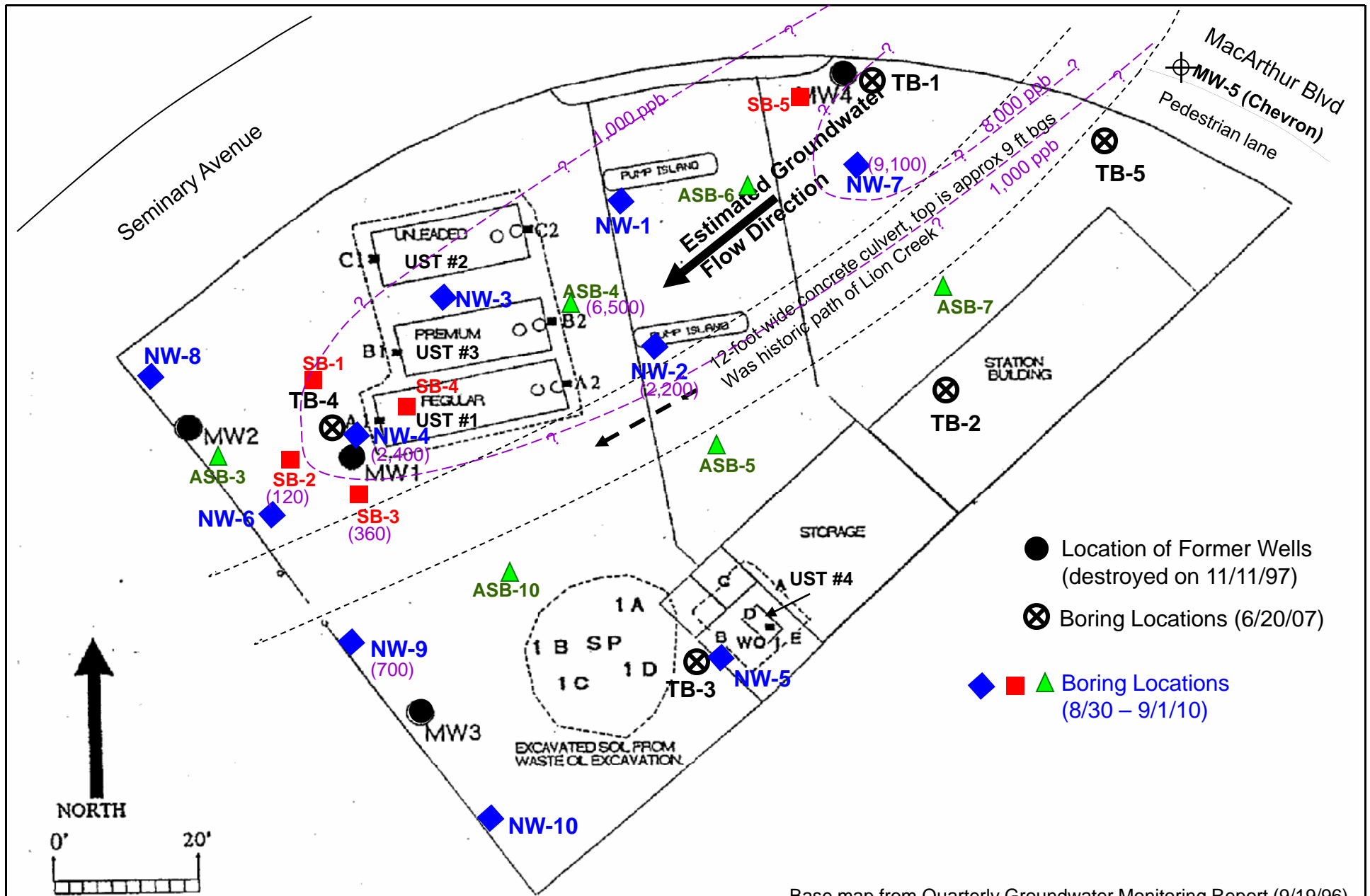




Base map from Quarterly Groundwater Monitoring Report (9/19/96)  
By Western Geo-Engineers

October 11, 2010

PROJECT # 10HCT02	5901 MacArthur Blvd Oakland, CA	TPH-g Concentration in Shallow Groundwater (ug/L, 8/30 – 9/1/2010 data)	FIGURE 5
OTG EnviroEngineering Solutions, Inc.			



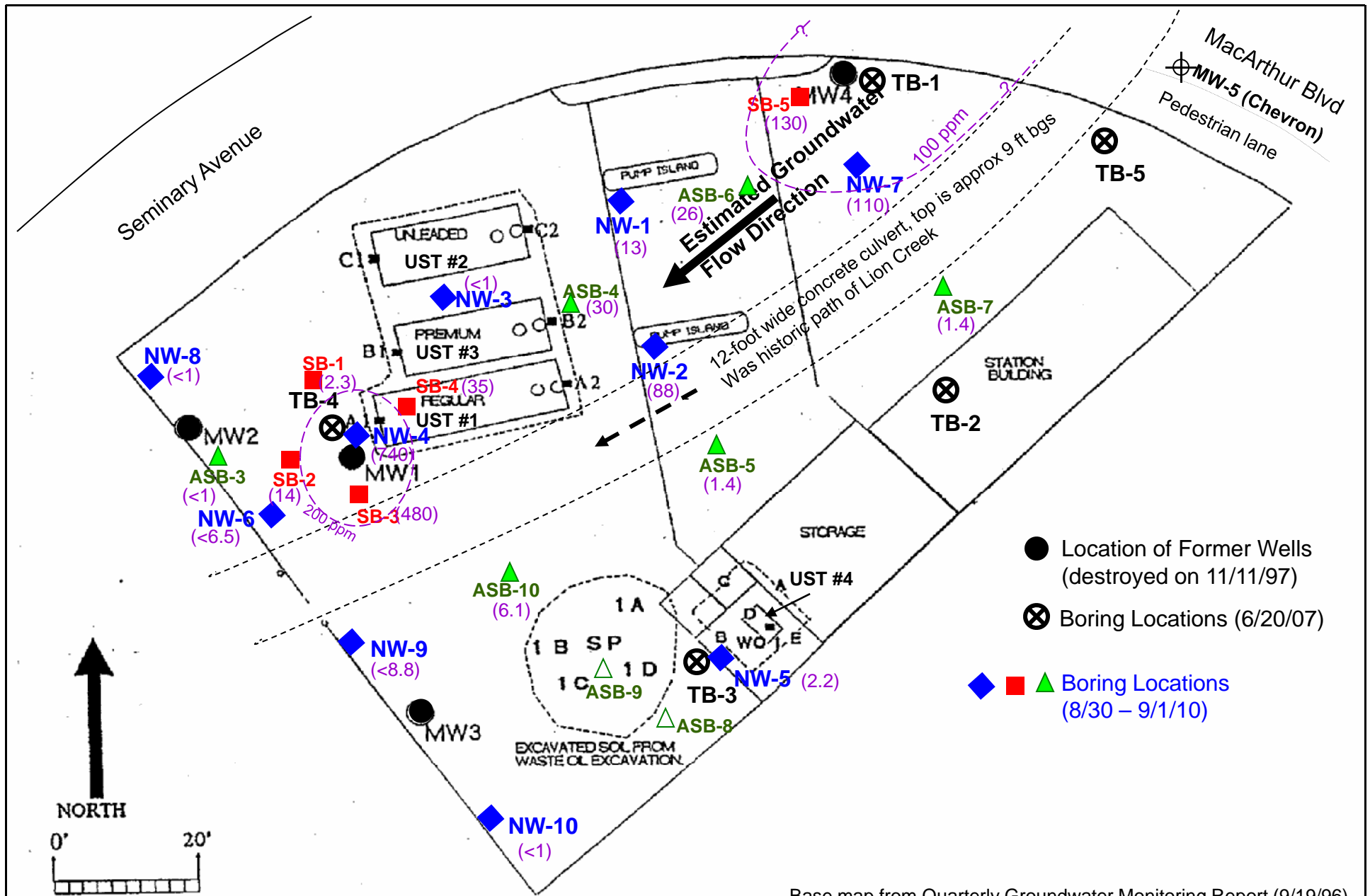
Base map from Quarterly Groundwater Monitoring Report (9/19/96)  
By Western Geo-Engineers

October 11, 2010

PROJECT # 10HCT02	5901 MacArthur Blvd Oakland, CA	TPH-d Concentration in Shallow Groundwater (ug/L, 8/30 – 9/1/2010 data)	FIGURE 6
OTG EnviroEngineering Solutions, Inc.			







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Base map from Quarterly Groundwater Monitoring Report (9/19/96)  
By Western Geo-Engineers

PROJECT # 10HCT02	5901 MacArthur Blvd Oakland, CA	TPH-d Concentration in Soil Between 13 and 15 ft Below Surface (ppm, 8/30 – 9/1/2010 data)	FIGURE 8
OTG EnviroEngineering Solutions, Inc.			

**Table 1 - Summary of Historic Soil Data  
5901 MacArthur Blvd, Oakland, CA**

Sample ID	Date of Sampling	Depth (ft, bgs)	Location	TPH gas (mg/kg)	TPH kerosene (mg/kg)	TPH diesel (mg/kg)	Oil&grease (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	ethylbenzene (mg/kg)	Xylenes (mg/kg)	other VOCs (EPA 6240)	SVOCs (EPA 8270)	Cd (mg/kg)	Cr, total (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg)
<b>Soil Samples Collected from the Bottom of UST Excavation Pits:</b>																		
A1	05/18/87	14' - 17.5'	UST #1	6.2		NA	NA	<0.1	<0.1	NA	<0.1							
A2	05/18/87	14' - 17.5'	UST #1	1.5		NA	NA	<0.1	<0.1	NA	<0.1							
B1	05/18/87	14' - 17.5'	UST #3	310		NA	NA	6.4	1	NA	15							
B2	05/18/87	14' - 17.5'	UST #3	2.3		NA	NA	<0.1	<0.1	NA	<0.1							
C1	05/18/87	14' - 17.5'	UST #2	50		NA	NA	5.9	3.7	NA	7.7							
C2	05/18/87	14' - 17.5'	UST #2	2.4		NA	NA	<0.1	<0.1	NA	<0.1							
WO#1	02/24/93	9.5'	UST #4	<1.0	4	17	<100	<0.005	0.012	<0.005	<0.015	ND	ND	1.2	52	12	170	40
<b>Soil Samples Collected from Well Installations:</b>																		
MW-1-10	10/27/93	10	MW-1	27		NA		0.081	0.055	0.36	0.099							
MW-1-15	10/27/93	15	MW-1	7		NA		0.052	0.019	0.22	0.13							
MW-1-20	10/27/93	20	MW-1	13		NA		0.014	0.033	0.15	0.11							
MW-2-10	10/04/95	10	MW-2	29		2		<0.01	<0.01	<0.01	<0.03							
MW-2-15	10/04/95	15	MW-2	<0.2		<1		<0.005	<0.005	<0.005	<0.005							
MW-3-10	10/04/95	10	MW-3	<0.2		<1		<0.005	<0.005	<0.005	<0.005							
MW-3-15	10/04/95	15	MW-3	<0.2		100		<0.005	<0.005	<0.005	<0.005							
MW-4-10	10/04/95	10	MW-4	5100		840		<1	7.7	33	0.3							
MW-4-15	10/04/95	15	MW-4	<0.2		<1		<0.005	<0.005	<0.005	<0.005							
bgs - below ground surface																		
NA - not analyzed																		
Data source: Blakely Environmental Investigation, Inc. (January 4, 1997), Request for Closure																		

**Table 2 - Summary of Historic Groundwater Data  
5901 MacArthur Blvd, Oakland, CA**

Well ID	Date	Water Level (ft, bgs)	TPH gas (ug/L)	TPH diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzen (ug/L)	Xylenes (ug/L)
MW-1	11/4/93	14.24	1900	610	210	2	0.6	7.8
	3/4/94	13.9	1700	610	220	4.9	2.9	10
	4/30/94	14.07	3200	<50	200	2	60	31
	9/6/94	13.96	3200	940	210	56	55	48
	1/12/95	13.68	500	500	13	<0.5	15	4
	3/13/95	13.2	50	400	8	<0.5	2	<2
	6/15/95	13.92	2000	<50	210	2	83	14
	10/18/95	14.22	1200	<50	110	5	8	6
	12/20/95	13.92	2600	200	320	4	180	55
	3/27/96	13.82	3500	NA	380	6.3	400	280
	6/11/96	13.83	1200	<20	120	1.5	7.7	2
	9/4/96	14.1	1100	<50	51	1.4	5.2	3
	MW-2	10/18/95	14.36	500	650	59	1	28
12/20/95		13.87	300	200	5	0.8	0.9	<2
3/27/96		13.76	<50	NA	<0.5	<0.5	<0.5	<2
6/11/96		13.9	<50	130	<0.5	<0.5	<0.5	<2
9/4/96		14.24	240	150	0.7	0.7	9.7	3
MW-3	10/18/95	14.57	100	300	<0.5	<0.5	<0.5	<2
	12/20/95	13.85	<50	<50	<0.5	<0.5	<0.5	<2
	3/27/96	13.38	<50	NA	<0.5	<0.5	<0.5	<2
	6/11/96	14.1	<50	<50	<0.5	<0.5	<0.5	<2
	9/4/96	14.44	<50	<50	<0.5	<0.5	<0.5	<2
MW-4	12/2/95	19.02	2100	2200	20	0.9	5.8	8.4
	12/20/95	12.14	2000	300	17	1	4	7
	3/27/96	12.15	430	NA	0.6	<0.5	0.8	<2
	6/11/96	12.7	370	200	1.9	<0.5	1	<2
	9/4/96	14.16	290	<50	1.1	<0.5	1.4	<2
bgs - below ground surface								
NA - not analyzed								
The four wells were destroyed on 11/11/1997.								

Table 3 - Summary of June 20, 2007 Soil and Groundwater Investigation Results  
5901 MacArthur Blvd, Oakland, CA

Sample ID	Depth (ft)	medium	unit	TPH gas	TPH diesel	TPH motor oil	Benzene	Toluene	ethylbenzene	xylenes	MTBE	Cadmium	Chromium	Lead	Nickel	Zinc
TB-4-W	15	groundwater	ug/L	1,620 (a)	1,000 (b)	ND (246)	2.3	0.97	2.38	0.74	12.3	ND (5)	ND (5)	ND (15)	ND (10)	15
TB-1 (trip blank)				ND (28)	NA	NA	ND (0.34)	ND (0.3)	ND (0.25)	ND (0.74)	ND (0.39)					
TB-1-1	2.0 - 2.5	shallow soil	mg/kg		ND (2.0)	7.5						ND (1.0)	29	25	41	130
TB-1-10	10 - 10.5	deep soil	mg/kg	26.6	2.1	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)	ND (1.0)	ND (1.0)	78	11	210	76
TB-1-15	15 - 15.5	deep soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	27	8.8	38	32
TB-2-1	1.5 - 2.0	shallow soil	mg/kg		ND (2.0)	ND (4.0)						ND (1.0)	34	24	37	42
TB-2-10	9.5 - 10	shallow soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	50	6.3	130	67
TB-2-15	15 - 15.5	deep soil	mg/kg	23	ND (2.0)	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)	ND (1.0)					
TB-3-1	1.5 - 2.0	shallow soil	mg/kg		ND (2.0)	73.8						ND (1.0)	29	48	41	97
TB-3-5	5.5 - 6.0	shallow soil	mg/kg	0.22	ND (2.0)	ND (4.0)	ND (0.005)	0.01	0.034	0.13	ND (0.01)	ND (1.0)	150	13	270	88
TB-3-10	10 - 10.5	deep soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	94	7.5	170	82
TB-3-15	15 - 15.5	deep soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)					
TB-4-1	1.0 - 1.5	shallow soil	mg/kg		ND (2.0)	ND (4.0)						ND (1.0)	32	14	48	32
TB-4-10	9.5 - 10	shallow soil	mg/kg	ND (0.1)	ND (2.0)	9.97	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	39	26	53	78
TB-4-15	15 - 15.5	deep soil	mg/kg	2,890 (c)	440	44.6	ND (5)	ND (5)	ND (5)	ND (15)	ND (10)	ND (1.0)	200	12	330	160
TB-5-1	1.0 - 1.5	shallow soil	mg/kg		ND (2.0)	ND (4.0)						ND (1.0)	33	7.2	43	29
TB-5-5	5.0 - 5.5	shallow soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	80	17	220	110
TB-5-10	10 - 10.5	deep soil	mg/kg	ND (0.1)	ND (2.0)	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)	ND (1.0)	110	6.6	240	68
TB-5-15	15 - 15.5	deep soil	mg/kg	0.143	5.8	ND (4.0)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.015)	ND (0.01)					
Note: a - laboratory reported that the result is elevated due to presence of non-target compounds within the TPH gas quantitative range.																
Note: b - sample chromatogram does not resemble typical diesel pattern. Lighter end and unidentified hydrocarbon peaks within the diesel range quantitated as diesel.																
Note: c - sample chromatogram does not match typical gasoline pattern due to presence of heavier hydrocarbons within the TPH gas range.																

**Table 4** - Summary of 2010 Groundwater Investigation Data  
5901 MacArthur Blvd, Oakland, CA

Sample ID	Date of collection	Depth (ft, bgs)	medium	unit	TPH gas	TPH diesel	TPH motor oil	Benzene	Toluene	ethylbenzene	xylenes	MTBE	TBA	DIPE	TAME	ETBE	EDB	EDC
<b>residential ESLs</b>	May-08		groundwater	ug/L	<b>210</b>	<b>210</b>	<b>210</b>	<b>46</b>	<b>130</b>	<b>43</b>	<b>100</b>	<b>1800</b>	<b>18000</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>150</b>	<b>200</b>
<b>commercial ESLs</b>	May-08		groundwater	ug/L	<b>210</b>	<b>210</b>	<b>210</b>	<b>46</b>	<b>130</b>	<b>43</b>	<b>100</b>	<b>1800</b>	<b>18000</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>150</b>	<b>200</b>
<b>NW-4-W</b>	8/30/10	15	groundwater	ug/L	<b>1,700</b>	<b>2,400</b>	ND (600)	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>NW-4-WD</b>	8/30/10	15	groundwater	ug/L	<b>2,900</b>	NA	NA	ND (5.0)	ND (5.0)	<b>5.7</b>	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>NW-2-W</b>	8/30/10	15	groundwater	ug/L	<b>1,600</b>	<b>2,200</b>	ND(650)	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>NW-7-W</b>	8/31/10	14	groundwater	ug/L	<b>11,000</b>	<b>9,100</b>	ND(1500)	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>NW-9-W</b>	8/31/10	15	groundwater	ug/L	ND (50)	<b>700</b>	<b>880</b>	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>SB-2-W</b>	8/30/10	15	groundwater	ug/L	<b>170</b>	<b>120</b>	ND (620)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	<b>1.4</b>	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>SB-3-W</b>	8/30/10	15	groundwater	ug/L	<b>340</b>	<b>360</b>	ND (630)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	<b>10</b>	<b>7.2</b>	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>ASB-4-W</b>	9/1/10	15	groundwater	ug/L	<b>2,800</b>	<b>6,500</b>	ND(1500)	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>ASB-4-Wd</b>	9/1/10	15	groundwater	ug/L	<b>2,900</b>	NA	NA	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (40)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>TB-1</b>	8/30/10		lab DI water	ug/L	ND (50)	NA	NA	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>TB-2</b>	8/31/10		lab DI water	ug/L	ND (50)	NA	NA	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>TB-3</b>	9/1/10		lab DI water	ug/L	ND (50)	NA	NA	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (4.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)

All ESL standards cited above are for groundwater is not a current or potential source of drinking water (RWQCB, May 2008)

**Table 5 - Summary of 2010 Soil Investigation Data**  
5901 MacArthur Blvd, Oakland, CA

Sample ID	Date of collection	Depth (ft) (ft, bgs)	medium	unit	TPH gas	TPH diesel	TPH motor oil	Benzene	Toluene	ethylbenzene	xylene	MTBE	TBA	DIPE	TAME	ETBE	EDB	EDC
<b>residential ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>100</b>	<b>100</b>	<b>370</b>	<b>0.12</b>	<b>9.3</b>	<b>2.3</b>	<b>11</b>	<b>8.4</b>	<b>100</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.019</b>	<b>0.22</b>
<b>commercial ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>180</b>	<b>180</b>	<b>2500</b>	<b>0.27</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.044</b>	<b>0.48</b>
<b>residential ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>commercial ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>SB-1-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>13</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-1-15</b>	8/30/10	15-15.5	deep soil	mg/kg	ND(0.25)	<b>2.3</b>	ND (49)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-1-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.25)	<b>1.2</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-2-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>2</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-2-15</b>	8/30/10	14.5-15	deep soil	mg/kg	<b>2.1</b>	<b>14</b>	ND (50)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
<b>SB-2-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.25)	<b>1.4</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-3-10</b>	8/30/10	10-10.5	shallow soil	mg/kg	ND(0.25)	<b>9.3</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-3-15</b>	8/30/10	14.5-15	deep soil	mg/kg	<b>3.3</b>	<b>480</b>	ND (490)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-3-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.25)	<b>1.1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	<b>0.006</b>	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-3-25</b>	8/30/10	24.5-25	deep soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-4-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>23</b>	<b>120</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-4-10</b>	8/30/10	9.5-10	shallow soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-4-15</b>	8/30/10	14.5-15	deep soil	mg/kg	<b>5.2</b>	<b>35</b>	ND (50)	ND(0.023)	ND(0.023)	ND(0.023)	ND(0.05)	ND(0.023)	ND(0.05)	ND(0.023)	ND(0.023)	ND(0.023)	ND(0.023)	ND(0.023)
<b>SB-4-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-4-25</b>	8/30/10	24.5-25	deep soil	mg/kg	ND(0.25)	<b>11</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	<b>0.049</b>	<b>0.040</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-5-8</b>	8/31/10	8.0-8.5	shallow soil	mg/kg	ND(0.24)	<b>32</b>	<b>230</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>SB-5-13</b>	8/31/10	12.5-13	deep soil	mg/kg	<b>140</b>	<b>130</b>	ND(100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
<b>SB-5-15</b>	8/31/10	15-15.5	deep soil	mg/kg	ND(0.23)	<b>1.0</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-5-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.24)	<b>2.1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>SB-5-25</b>	8/31/10	24.5-25	deep soil	mg/kg	ND(0.23)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-1-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>5.9</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-1-10</b>	8/30/10	9.5-10	shallow soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-1-15</b>	8/30/10	14.5-15	deep soil	mg/kg	<b>130</b>	<b>13</b>	ND (50)	ND(0.024)	ND(0.024)	<b>0.840</b>	<b>0.990</b>	ND(0.024)	ND(0.05)	ND(0.024)	ND(0.024)	ND(0.024)	ND(0.024)	ND(0.024)
<b>NW-1-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-1-25</b>	8/30/10	24.5-25	deep soil	mg/kg	ND(0.24)	<b>1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-2-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.24)	<b>11</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-2-10</b>	8/30/10	9.5-10	shallow soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-2-15</b>	8/30/10	15-15.5	deep soil	mg/kg	<b>82</b>	<b>88</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-2-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.25)	<b>4.9</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

**Table 5 - Summary of 2010 Soil Investigation Data**  
5901 MacArthur Blvd, Oakland, CA

Sample ID	Date of collection	Depth (ft) (ft, bgs)	medium	unit	TPH gas	TPH diesel	TPH motor oil	Benzene	Toluene	ethylbenzene	xylene	MTBE	TBA	DIPE	TAME	ETBE	EDB	EDC
<b>residential ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>100</b>	<b>100</b>	<b>370</b>	<b>0.12</b>	<b>9.3</b>	<b>2.3</b>	<b>11</b>	<b>8.4</b>	<b>100</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.019</b>	<b>0.22</b>
<b>commercial ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>180</b>	<b>180</b>	<b>2500</b>	<b>0.27</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.044</b>	<b>0.48</b>
<b>residential ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>commercial ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>NW-3-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.24)	<b>27</b>	<b>70</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-3-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.23)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-3-15</b>	8/31/10	14.5-15	deep soil	mg/kg	<b>8.4</b>	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	<b>0.05</b>	<b>0.014</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-3-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-4-5</b>	8/30/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>12</b>	ND (49)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-4-10</b>	8/30/10	9.5-10	shallow soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-4-15</b>	8/30/10	14.5-15	deep soil	mg/kg	<b>280</b>	<b>740</b>	ND (500)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
<b>NW-4-20</b>	8/30/10	19.5-20	deep soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-4-25</b>	8/30/10	24.5-25	deep soil	mg/kg	ND(0.25)	<b>2.7</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	<b>0.006</b>	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-5-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>2.6</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-5-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.25)	<b>1.0</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-5-15</b>	8/31/10	14.5-15	deep soil	mg/kg	ND(0.25)	<b>2.2</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-5-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.24)	<b>3.1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-5-25</b>	8/31/10	24.5-25	deep soil	mg/kg	ND(0.25)	<b>2.0</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-6-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.24)	<b>1.0</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-6-15</b>	8/31/10	14.5-15	deep soil	mg/kg	ND(0.24)	<b>6.5</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-7-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>5.8</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-7-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.25)	<b>6.0</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-7-15</b>	8/31/10	14.5-15	deep soil	mg/kg	<b>860</b>	<b>110</b>	ND(100)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5.0)	ND(2.5)	ND(5.0)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)
<b>NW-7-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-8-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>340</b>	<b>1700</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-8-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-8-15</b>	8/31/10	14.5-15	deep soil	mg/kg	ND(0.23)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-8-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-9-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>NW-9-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-9-15</b>	8/31/10	14.5-15	deep soil	mg/kg	ND(0.23)	<b>8.8</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>NW-9-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA



**Table 5 - Summary of 2010 Soil Investigation Data**  
5901 MacArthur Blvd, Oakland, CA

Sample ID	Date of collection	Depth (ft) (ft, bgs)	medium	unit	TPH gas	TPH diesel	TPH motor oil	Benzene	Toluene	ethylbenzene	xylenes	MTBE	TBA	DIPE	TAME	ETBE	EDB	EDC
<b>residential ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>100</b>	<b>100</b>	<b>370</b>	<b>0.12</b>	<b>9.3</b>	<b>2.3</b>	<b>11</b>	<b>8.4</b>	<b>100</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.019</b>	<b>0.22</b>
<b>commercial ESLs</b>	May-08	≤ 10	shallow soil	mg/kg	<b>180</b>	<b>180</b>	<b>2500</b>	<b>0.27</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>0.044</b>	<b>0.48</b>
<b>residential ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>commercial ESLs</b>	May-08	> 10	deep soil	mg/kg	<b>180</b>	<b>180</b>	<b>5000</b>	<b>2</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>110</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1</b>	<b>1.8</b>
<b>MW-10-5</b>	9/1/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>MW-10-10</b>	9/1/10	9.5-10	shallow soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>MW-10-15</b>	9/1/10	14.5-15	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>MW-10-20</b>	9/1/10	20-20.5	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-3-5</b>	9/1/10	4.5-5.0	shallow soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-3-10</b>	9/1/10	9.5-10	shallow soil	mg/kg	ND(0.25)	<b>15</b>	<b>83</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-3-15</b>	9/1/10	15-15.5	deep soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-3-20</b>	9/1/10	19.5-20	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-4-5</b>	9/1/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>8.1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-4-10</b>	9/1/10	10-10.5	shallow soil	mg/kg	ND(0.25)	<b>1.9</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-4-15</b>	9/1/10	14.5-15	deep soil	mg/kg	<b>16</b>	<b>30</b>	ND (50)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.05)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
<b>ASB-4-20</b>	9/1/10	19.5-20	deep soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-5-5</b>	9/1/10	4.5-5.0	shallow soil	mg/kg	ND(0.23)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-5-10</b>	9/1/10	9.5-10	shallow soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-5-15</b>	9/1/10	14.5-15	deep soil	mg/kg	ND(0.25)	1.4	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-5-20</b>	9/1/10	19.5-20	deep soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-6-5</b>	9/1/10	4.5-5.0	shallow soil	mg/kg	ND(0.25)	<b>140</b>	<b>890</b>	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-6-10</b>	9/1/10	9.5-10	shallow soil	mg/kg	ND(0.24)	<b>4.2</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-6-15</b>	9/1/10	14.5-15	deep soil	mg/kg	<b>110</b>	<b>26</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-6-20</b>	9/1/10	19.5-20	deep soil	mg/kg	ND(0.23)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-6-27</b>	9/1/10	27-27.5	deep soil	mg/kg	ND(0.25)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-7-10</b>	9/1/10	9.5-10	shallow soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-7-15</b>	9/1/10	14.5-20	deep soil	mg/kg	<b>0.39</b>	<b>1.4</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-7-20</b>	9/1/10	19.5-20	deep soil	mg/kg	ND(0.24)	ND (1.0)	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-10-5</b>	8/31/10	4.5-5.0	shallow soil	mg/kg	ND(0.24)	<b>1.9</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA
<b>ASB-10-10</b>	8/31/10	9.5-10	shallow soil	mg/kg	ND(0.24)	<b>1.5</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-10-15</b>	8/31/10	14.5-15	deep soil	mg/kg	<b>47</b>	<b>6.1</b>	ND (50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.01)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
<b>ASB-10-20</b>	8/31/10	19.5-20	deep soil	mg/kg	ND(0.24)	NA	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	NA	NA	NA	NA	NA	NA	NA

All ESL standards cited above are for groundwater is not a current or potential source of drinking water (RWQCB, May 2008)

# **APPENDIX A**

## **Drilling Permit**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 08/20/2010 By cesarji

Permit Numbers: W2010-0640  
Permits Valid from 08/30/2010 to 09/17/2010

Application Id: 1282001204876  
Site Location: 5901 MacArthur Blvd, Oakland, CA

City of Project Site:Oakland

Project Start Date: 08/30/2010  
Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

Completion Date:09/17/2010

Applicant: OTG EnviroEngineering Solutions, Inc. -

Phone: 510-465-8982

Property Owner: Xinggang Tong  
7700 Edgewater Drive, Suite 260, Oakland, CA 94621  
Jeffrey Huynh

Phone: 510-301-1600

Client: 1501 Darius Court, Oakland, CA 94577  
\*\* same as Property Owner \*\*

Receipt Number: WR2010-0292 Total Due: \$265.00  
Payer Name : OTG Envionengineering Paid By: CHECK Total Amount Paid: \$265.00  
Solutions PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 25 Boreholes  
Driller: PeneCore Drilling - Lic #: 906899 - Method: DP

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2010-0640	08/20/2010	11/28/2010	25	2.00 in.	30.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

## **Alameda County Public Works Agency - Water Resources Well Permit**

permits and requirements have been approved or obtained.

5. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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# APPENDIX B

## Boring Logs

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/30/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft <b>25</b>
Apparent Groundwater Depth <u>Drilling Summary:</u> <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
<b>ft at drilling: no free water encountered</b> <b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft _____ after _____ hrs _____	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 7 ft, AGGREGATES-SAND-SILT FILL (GM), brown <small>FILL</small>
-							2		
-				70			3		
-							4		
-	NW-1-5	4.5-5.0	1.0			no	5		7 - 9 ft, SILTY SAND FILL (SM), brown
-							6		
-				70			7	<b>SM</b>	
-							8		9 - 11 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							9		
-	NW-1-10	9.5-10	3.5			no	10	<b>GM</b>	11 - 14 ft, CLAYEY SILT-SILTY CLAY (ML/CL), brown
-							11		
-				100			12	<b>ML/CL</b>	
-							13		
-							14		14 - 15 ft, CLAYEY SILT (ML), dark green to dark gray soft, but no free water
-							15	<b>ML</b>	
-	NW-1-15	14.5-15	316.0			strong petro	15		15 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							16		
-				100			17	<b>CL</b>	
-							18		
-							19		Total Depth = 25 ft bgs, no groundwater encountered
-							20		
-				100			21		
-							22		
-							23		
-							24		
-	NW-1-20	19.5-20	2.0			no	20		
-							21		
-							22		
-				100			23		
-							24		
-	NW-1-25	24.5-25	0.5			no	25		

Site: **5901 MacArthur Blvd, Oakland, CA**

Ground Elevation: **NA**

Client **Huynh Cheng Family Living Trust**

T.O.C. Elevation: **NA**

Project Number: **10HCT02.2000**

Coordinates: **NA**

Date(s) Drilled: **08/30/10**

Drilling Method: **Direct Push, GeoProbe 7822 DT**

Date(s) Installed: **NA**

Final Borehole Diameter: **DualCore, 2.25" OD/1" ID**

Drilling Co./Driller: **PeneCore Drilling Co**

Borehole Total Depth, ft **25**

Apparent Groundwater Depth ft at drilling: 15 ft      Drilling Summary: **Advanced borehole to target depth with 5-foot sections of DualCore samplers**  
ft after hrs      **Neat cement grout sealed borehle at the end of the same day.**

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0			no	1	GW	0 - 1 ft, BASE AGGREGATES FILL (GW)
				70			2	GM	1 - 10 ft, AGGREGATES-SAND-SILT FILL (GM), brown
						3			
						4			
	NW-2-5	4.5-5.0	1.3			5	no		
				70			6	?	10 - 15 (?) ft, SILTY SAND (SM), dark brown
						7			
						8			
						9			
	NW-2-10	9.5-10	1			10	no		
				15			11	▼	15 - 17 ft, SILTY SAND (SM), dark green to dark gray groundwater first encountered at approx 15 ft NW-2-W is a groundwater sample
						12			
						13			
						14			
	NW-2-W						15	CL	17 - 25 ft, SILTY CLAY (CL), brown to yellowish brown firm to stiff, medium plasticity
	NW-2-15	15.0-15.5	160			16	petro		
				90			17		
						18			
						19			
	NW-2-20	19.5-20	1.5			20	no		
				100			21		Total Depth = 25 ft bgs
						22			
						23			
						24			
			0.5			no	25		

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/31/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth _____ Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> <b>ft at drilling: no groundwater encountered</b> <span style="margin-left: 100px;"><b>Neat cement grout sealed borehle at the end of the same day.</b></span>	
ft _____ after _____ hrs	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	GM	0 - 2 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							2		
-				70			3	SP	2 - 10 ft, GRAVELLY SANDS FILL (SP), brown
-							4		
-	NW-3-5	4.5-5.0	0.5			no	5		
-							6		
-							7		
-				75			8		
-							9		
-	NW-3-10	9.5-10	0.5			no	10		
-							11	SW	10 - 11 ft, SAND FILL (SW)
-							12		about 8 inches thick of concrete
-							13	CL	11.5 - 20 ft, SILTY CLAY (CL), brown to yellowish brown
-							14		firm to stiff, medium plasticity
-							15		
-	NW-3-15	14.5-15	4.0			no	15		
-							16		
-							17		
-				100			18		
-							19		
-							20		
-	NW-3-20	19.5-20	0.2			no	20		Total Depth = 20 ft bgs, no groundwater encountered
-							21		
-							22		
-							23		
-							24		
-							25		



Site: **5901 MacArthur Blvd, Oakland, CA**

Ground Elevation: **NA**

Client **Huynh Cheng Family Living Trust**

T.O.C. Elevation: **NA**

Project Number: **10HCT02.2000**

Coordinates: **NA**

Date(s) Drilled: **08/30/10**

Drilling Method: **Direct Push, GeoProbe 7822 DT**

Date(s) Installed: **NA**

Final Borehole Diameter: **DualCore, 2.25" OD/1" ID**

Drilling Co./Driller: **PeneCore Drilling Co**

Borehole Total Depth, ft **25**

Apparent Groundwater Depth ft at drilling: 15 ft after hrs Drilling Summary: **Advanced borehole to target depth with 5-foot sections of DualCore samplers. Neat cement grout sealed borehole at the end of the same day. NW-4 is located next to former MW-1 and TB-4**

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1	GM	0 - 2 ft, AGGREGATES-SAND-SILT FILL (GM), brown
							2		
				70			3	SM	2 - 4 ft, SILTY SAND (SM) with some aggregates, brown
							4		
	NW-4-5	4.5-5.0	0.1			no	5	CL	4 - 14 ft, SILTY CLAY (CL), brown to dark brown firm to stiff
							6		
				70			7		
							8		
	NW-4-10	9.5-10	3.5			no	10	CL	
							11		
				60			12		
							13		
	NW-4-15	14.5-15	178			strong petro	15	SP/SM	14 - 17 ft, SILTY SAND with some gravels (SP/SM) dark green to dark gray groundwater first encountered at approx 15 ft NW-4-W is a groundwater sample NW-4-W is a duplicate groundwater sample
	NW-4-W						16		
	NW-4-Wd						17	CL	17 - 25 ft, SILTY CLAY (CL), brown to yellowish brown firm to stiff, medium plasticity
				90			18		
							19		
	NW-4-20	19.5-20	1.2			no	20	CL	
							21		
				100			22		
							23		
							24		
	NW-4-25	24.5-25	0.5			no	25		Total Depth = 25 ft bgs

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/31/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>25</b>
Apparent Groundwater Depth _____ Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> ft at drilling: <b>no free water</b> Neat cement grout sealed borehle at the end of the same day.	
ft _____ after _____ hrs	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	GM	0 - 3 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							2		
-				80			3		
-							4	SP	3 - 5 ft, GRAVELLY SANDS FILL (SP), brown
-	NW-5-5	4.5-5.0	0.5			no	5		
-							6	GP	5 - 7 ft, REDDISH BRICKS/AGGREGATES FILL (GP)
-							7		
-				70			8	ML	7 - 10 ft, CLAYEY SILT (ML), brown, stiff
-							9		
-	NW-5-10	9.5-10	0.5			no	10		
-							11	CL	10 - 12 ft, SILTY CLAY (CL), dark brown firm to stiff
-							12		
-				100			13	ML	12 - 16.5 ft, CLAYEY SILT (ML), brown slightly soft btw 14.5 - 16 ft, but no free water
-							14		
-	NW-5-15	14.5-15	1.0			no	15		
-							16		
-							17	CL	16.5 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-				100			18		
-							19		
-	NW-5-20	19.5-20	1.0			no	20		
-							21		
-							22		
-				100			23		
-							24		
-	NW-5-25	24.5-25	0.5			no	25		
									Total Depth = 25 ft bgs, no groundwater encountered

Site: **5901 MacArthur Blvd, Oakland, CA**  
 Client: **Huynh Cheng Family Living Trust**  
 Project Number: **10HCT02.2000**  
 Date(s) Drilled: **08/31/10**  
 Date(s) Installed: **NA**  
 Drilling Co./Driller: **PeneCore Drilling Co**

Ground Elevation: **NA**  
 T.O.C. Elevation: **NA**  
 Coordinates: **NA**  
 Drilling Method: **Direct Push, GeoProbe 7822 DT**  
 Final Borehole Diameter: **DualCore, 2.25" OD/1" ID**  
 Borehole Total Depth, ft: **15**

Apparent Groundwater Depth \_\_\_\_\_ Drilling Summary: **Advanced borehole to target depth with 5-foot sections of DualCore samplers**  
ft at drilling: no free water encountered **Neat cement grout sealed borehle at the end of the same day.**  
 ft \_\_\_\_\_ after \_\_\_\_\_ hrs \_\_\_\_\_

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 5 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-				70			2		
-							3		
-							4		
-			0.2			no	5		
-							6	<b>SP</b>	5 - 10 ft, GRAVELLY SANDS FILL (SP), dark brown
-				60			7		
-							8		
-							9		
-	NW-6-10	9.5-10.0	0.5			no	10		
-							11	<b>CL</b>	10 - 15 ft, SILTY CLAY (CL), dark brown medium soft
-				70			12		
-							13		
-							14		
-	NW-6-15	14.5-15	0.5			no	15		
-							16		No groundwater encountered Total Depth - 15 ft bgs, refusal at 15 ft
-							17		
-							18		
-							19		
-							20		
-							21		
-							22		
-							23		
-							24		
-							25		

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/31/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth _____ Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> <b>ft at drilling: 14</b> <span style="margin-left: 100px;"><b>Neat cement grout sealed borehle at the end of the same day.</b></span>	
ft _____ after _____ hrs	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 7 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							2		
-				80			3		
-							4		
-	NW-7-5	4.5-5.0	0.5			no	5	<b>SP</b>	7 - 10 ft, GRAVELLY SANDS FILL (SP), brown
-							6		
-				50			7		
-							8		
-	NW-7-10	9.5-10	0.5			no	10	<b>ML</b>	10 - 15 ft, CLAYEY SILT (ML), dark green to dark gray slightly soft btw 14.5 - 16 ft, but no free water
-							11		
-				50			12		
-							13		
-	NW-7-W						14	<b>CL</b>	about 2" concrete at 14 ft, wet groundwater first encountered at approx 14 ft NW-7-W is a groundwater sample
-	NW-7-15	14.5-15	365.0			strong petro	15		
-							16	<b>CL</b>	15 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							17		
-				100			18		
-							19		
-	NW-7-20	19.5-20	0.5			no	20		Total Depth = 20 feet bgs
-							21		
-							22		
-							23		
-							24		
-							25		

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/31/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft <b>20</b>
Apparent Groundwater Depth _____ Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> ft at drilling: <b>no groundwater encountered</b> Neat cement grout sealed borehle at the end of the same day. ft _____ after _____ hrs _____	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	GW	0 - 2 ft, BASE AGGREGATES FILL (GW) FILL
-							2		
-				70			3	GM	2 - 5 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							4		
-	NW-8-5	4.5-5.0	0.5			no	5		
-							6	SP	5 - 10 ft, GRAVELLY SANDS FILL (SP), dark brown
-							7		
-				50			8		
-							9		
-	NW-8-10	9.5-10	0.5			no	10		
-							11	GM	10 - 15 ft, CONCRETE-AGGREGATES-SILT FILL (GM) dry
-							12		
-				60			13		
-							14		
-	NW-8-15	14.5-15	0.5			no	15		
-							16	CL	15 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							17		
-				100			18		
-							19		
-	NW-8-20	19.5-20	0.5			no	20		Total Depth = 20 ft bgs, no groundwater encountered
-							21		
-							22		
-							23		
-							24		
-							25		

<b>OTG EnviroEngineering Solutions, Inc.</b>	<b>BORING LOG</b> sheet 1 of 1	Boring ID <b>NW-9</b>
		Well ID
Site: <b>5901 MacArthur Blvd, Oakland, CA</b>		Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>		T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>		Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/31/10</b>		Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>		Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>		Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth <u>                    </u> Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>		
ft at drilling: <b>15</b> <b>Neat cement grout sealed borehle at the end of the same day.</b>		
ft      after      hrs		

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 7 ft, AGGREGATES-SAND-SILT FILL (GM), brown FILL
-							2		
-				70			3		
-							4		
-	NW-9-5	4.5-5.0	0.2			no	5	<b>SP</b>	4 - 9 ft, GRAVELLY SANDS FILL (SP), brown
-							6		
-							7		
-				50			8		
-							9		
-	NW-9-10	9.5-10	0.5			no	10	<b>ML</b>	9 - 14 ft, CLAYEY SILT (ML), dark brown
-							11		
-							12		
-				100			13		
-	NW-9-15	14.5-15	0.5			no	15	<b>SP</b>	14 - 15 ft, GRAVELLY SANDS FILL (SP) wet at 15 ft
-	NW-9-W						16		
-							17		
-							18		
-							18	<b>CL</b>	17 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							19		
-	NW-9-20	19.5-20	0.2			no	20		Total Depth = 20 feet bgs
-							21		
-							22		
-							23		
-							24		
-							25		

Site: **5901 MacArthur Blvd, Oakland, CA**  
 Client: **Huynh Cheng Family Living Trust**  
 Project Number: **10HCT02.2000**  
 Date(s) Drilled: **09/01/10**  
 Date(s) Installed: **NA**  
 Drilling Co./Driller: **PeneCore Drilling Co**

Ground Elevation: **NA**  
 T.O.C. Elevation: **NA**  
 Coordinates: **NA**  
 Drilling Method: **Direct Push, GeoProbe 7822 DT**  
 Final Borehole Diameter: **DualCore, 2.25" OD/1" ID**  
 Borehole Total Depth, ft: **25**

Apparent Groundwater Depth ft at drilling: no free water  
 Drilling Summary: **Advanced borehole to target depth with 5-foot sections of DualCore samplers**  
**Neat cement grout sealed borehole at the end of the same day.**  
 ft dry after 3 hrs

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	GM	0 - 7 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-				80			2		
-							3		
-							4		
-	NW-10-5	4.5-5.0	0.1			no	5		
-							6		7 - 8.5 ft, CLAYEY SILT FILL (ML), dark brown & stiff
-				80			7	ML	
-							8		
-							9		8.5 - 11.5 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-	NW-10-10	9.5-10	0.2			no	10	GM	
-							11		11.5 - 13 ft, CLAYEY SILT FILL (ML), brown
-				100			12	ML	
-							13		
-							14		13 - 16 ft, AGGREGATES-SAND-SILT FILL (GM), brown dry, no sign of water
-	NW-10-15	14.5-15	0.2			no	15	GM	
-							16		a small reddish gravel jammed sampler intake point resulting in only 20% recovery for the 5-ft sample
-				20			17		
-							18	?	
-							19		
-							20		20 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-	NW-10-20	20-20.5	0.1			no	21	CL	
-				100			22		
-							23		
-							24		
-			0.1			no	25		Total Depth = 25 ft bgs, no groundwater encountered

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>08/30/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth _____ Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> <b>ft at drilling: no free water encountered</b> <b>Neat cement grout sealed borehole at the end of the same day.</b>	
ft _____ after _____ hrs	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1		0 - 1 ft, BASE AGGREGATES FILL (GW) FILL
							2		1 - 3 ft, AGGREGATES-SAND-SILT FILL (GM), brown
				80			3		3 - 10 ft, SILT CLAY (CL), brown to dark brown
	SB-1-5	4.5-5.0	0.3			no	5		
							6		
							7		
				70			8		7 - 10 ft, GRAVELLY SANDS FILL (SP), brown
							9		
			0.4			no	10		10 - 11 ft, approx 1 ft old concrete
							11		
							12		
							13	?	
							14		
	SB-1-15	15.0-15.5	14.8			no	15		15 - 16 ft, SILTY CLAYEY SAND (SM/SC), dark green to dark gray moist, but no free water
							16		
							17		16 - 20 ft, SILTY CLAY (CL), brown to yellowish brown firm to stiff, medium plasticity
				90			18		
							19		
	SB-1-20	19.5-20	0.5			no	20		Total Depth = 20 ft bgs, no groundwater encountered
							21		
							22		
							23		
							24		
							25		



<b>OTG EnviroEngineering Solutions, Inc.</b>	<b>BORING LOG</b> sheet 1 of 1	<b>Boring ID</b>	<b>SB-2</b>
		<b>Well ID</b>	
Site: <b>5901 MacArthur Blvd, Oakland, CA</b>		Ground Elevation: <b>NA</b>	
Client: <b>Huynh Cheng Family Living Trust</b>		T.O.C. Elevation: <b>NA</b>	
Project Number: <b>10HCT02.2000</b>		Coordinates: <b>NA</b>	
Date(s) Drilled: <b>08/30/10</b>		Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>	
Date(s) Installed: <b>NA</b>		Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>	
Drilling Co./Driller: <b>PeneCore Drilling Co</b>		Borehole Total Depth, ft: <b>20</b>	
Apparent Groundwater Depth		Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
ft at drilling: <b>15</b>		<b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft after _____ hrs			

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1	GP	0 - 1 ft, AGGREGATES-SAND FILL (GP)
							2	GM	1 - 4 ft, AGGREGATES-SAND-SILT FILL (GM), yellowish brown
				60			3		
							4		
	SB-2-5	4.5-5.0	0.3			no	5	SP	4 - 6.5 (?) ft, GRAVELLY SANDS FILL (SP)
							6		
							7		
				30			8	?	
							9		
			0.2			no	10		
							11	CL	10 - 14 ft, SILTY CLAY (CL), dark brown, stiff
							12		
				60			13		
							14		
	SB-2-15	14.5-15	9.5			faint petro	15	SP/SM	14 - 16.5 ft, GRAVELLY SAND-SILT (SP/SM) dark green to dark gray
	SB-2-W						16	▽	groundwater first encountered at approx 15 ft SB-2-W is a groundwater sample
							17	CL	16.5 - 20 ft, SILTY CLAY (CL), yellowish brown firm to stiff, medium plasticity
							18		
				100			19		
							20		
	SB-2-20	19.5-20	0.5			no	20		Total Depth = 20 feet bgs
							21		
							22		
							23		
							24		
							25		

OTG EnviroEngineering Solutions, Inc.	<b>BORING LOG</b> sheet 1 of 1	Boring ID	SB-3
		Well ID	

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation:	NA
Client <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation:	NA
Project Number: <b>10HCT02.2000</b>	Coordinates:	NA
Date(s) Drilled: <b>08/30/10</b>	Drilling Method:	<b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter:	<b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft	<b>25</b>
Apparent Groundwater Depth	Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
ft at drilling: <b>15 ft</b>	Neat cement grout sealed borehole at the end of the same day.	
ft after _____ hrs		

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1	GW	0 - 1 ft, BASE AGGREGATES FILL (GW)
				70			2		1 - 6 ft, AGGREGATES-SAND-SILT FILL (GM), brown
							3	GM	
			0.4			no	5		
				20			7		
							8	?	
							9		
	SB-3-10	10.0-10.5	0.4			no	10		10 - 14 ft, SILTY SAND (SM), dark brown
				70			11	SM	
							12		
							13		
							14		
	SB-3-15	14.5-15	161			strong petro	15	SP/SM	14 - 18 ft, SILTY SAND with some gravels (SP/SM) dark green to dark gray groundwater first encountered at approx 15 ft SB-3-W is a groundwater sample
	SB-3-W						15		
				90			16		
							17		
							18		
							19		
	SB-3-20	19.5-20	10.7			no	20	CL	18 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
				100			21		
							22		
							23		
							24		
	SB-3-25	24.5-25	1			no	25		Total Depth = 25 ft bgs

<b>OTG EnviroEngineering Solutions, Inc.</b>	<b>BORING LOG</b> sheet 1 of 1	<b>Boring ID</b>	<b>SB-4</b>
		<b>Well ID</b>	
Site: <b>5901 MacArthur Blvd, Oakland, CA</b>		Ground Elevation:	<b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>		T.O.C. Elevation:	<b>NA</b>
Project Number: <b>10HCT02.2000</b>		Coordinates:	<b>NA</b>
Date(s) Drilled: <b>08/30/10</b>		Drilling Method:	<b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>		Final Borehole Diameter:	<b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>		Borehole Total Depth, ft	<b>25</b>
Apparent Groundwater Depth		Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
ft at drilling: <b>no free water encountered</b>		<b>Neat cement grout sealed borehole at the end of the same day.</b>	
ft _____ after _____ hrs			

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1	<b>GW</b>	0 - 1 ft, BASE AGGREGATES FILL (GW)
							2	<b>GM</b>	1 - 6 ft, AGGREGATES-SAND-SILT FILL (GM), brown
				80			3		
							4		
	SB-4-5	4.5-5.0	1.2			no	5		
							6		
							7		6 - 11 ft, SILTY SAND FILL (SM), brown
				70			8	<b>SM</b>	
							9		
	SB-4-10	9.5-10	1			no	10		
							11		
							12	<b>GM</b>	11 - 13.5 ft, AGGREGATES-SAND-SILT FILL (GM), gray & dry
				70			13		
							14		
	SB-4-15	14.5-15	20.5			faint petro	15	<b>ML</b>	13.5 - 16 ft, CLAYEY SILT (ML), greenish gray moisture around 15 ft, but no free water
							16		
							17	<b>CL</b>	16 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
				100			18		
							19		
	SB-4-20	19.5-20	1.0			no	20		
							21		
							22		
				100			23		
							24		
	SB-4-25	24.5-25	1.0			no	25		
									Total Depth = 25 ft, bgs, no groundwater encountered

<b>OTG EnviroEngineering Solutions, Inc.</b>	<b>BORING LOG</b> sheet 1 of 1	<b>Boring ID</b>	<b>SB-5</b>
		<b>Well ID</b>	
Site: <b>5901 MacArthur Blvd, Oakland, CA</b>		Ground Elevation:	<b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>		T.O.C. Elevation:	<b>NA</b>
Project Number: <b>10HCT02.2000</b>		Coordinates:	<b>NA</b>
Date(s) Drilled: <b>08/31/10</b>		Drilling Method:	<b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>		Final Borehole Diameter:	<b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>		Borehole Total Depth, ft	<b>25</b>
Apparent Groundwater Depth		Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
ft at drilling: <b>no free water encountered</b>		<b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft _____ after _____ hrs _____			

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 9 (?) ft, AGGREGATES-SAND-SILT FILL (GM), brown FILL
-							2		
-				50			3		
-							4		
-			0.2			no	5	<b>ML</b>	9 - 12 ft, CLAYEY SILT (ML), dark green
-							6		
-				50			7		
-							8		
-	SB-5-8	8.0-8.5	1.5			no	9	<b>SP</b>	12 - 15 ft, GRAVELLY SANDS (SP), brown
-						no	10		
-				60		faint petro	11		
-							12		
-	SB-5-13	12.5-13	69				13	<b>CL</b>	15 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							14		
-						no	15		
-							16		
-	SB-5-15	15.0-15.5	1.7				17	<b>CL</b>	moist at approx 15 ft, but no free water
-							18		
-				100			19		
-							20		
-	SB-5-20	19.5-20	0.8			no	21	<b>CL</b>	15 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							22		
-				100			23		
-							24		
-	SB-5-25	24.5-25	0.5			no	25		Total Depth = 25 ft bgs, no groundwater encountered

<b>OTG EnviroEngineering Solutions, Inc.</b>	<b>BORING LOG</b> sheet 1 of 1	<b>Boring ID</b>	<b>ASB-3</b>
		<b>Well ID</b>	
Site: <b>5901 MacArthur Blvd, Oakland, CA</b>		Ground Elevation:	<b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>		T.O.C. Elevation:	<b>NA</b>
Project Number:	<b>10HCT02.2000</b>	Coordinates:	<b>NA</b>
Date(s) Drilled:	<b>09/01/10</b>	Drilling Method:	<b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed:	<b>NA</b>	Final Borehole Diameter:	<b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller:	<b>PeneCore Drilling Co</b>	Borehole Total Depth, ft	<b>20</b>
Apparent Groundwater Depth		Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
ft at drilling: <b>no groundwater encountered</b>		<b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft _____ after _____ hrs _____			

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 3 ft, AGGREGATES-SAND-SILT FILL (GM), brown FILL
-							2		
-				80			3		
-							4	<b>SP</b>	3 - 7.5 ft, GRAVELLY SANDS FILL (SP), brown
-	ASB-3-5	4.5-5.0	0.1			no	5		
-							6		7.5 - 10 ft, CLAYEY SAND (SC), dark brown
-							7		
-				50			8	<b>SC</b>	
-							9		
-	ASB-3-10	9.5-10	0.2			no	10		
-							11	<b>GM</b>	10 - 15 (?) ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							12		
-				40			13		
-							14		
-	ASB-3-15	15.0-15.5	0.5			no	15	<b>ML</b>	
-							16	<b>CL</b>	6 inches of CLAYEY SILT (ML), dark green to dark gray
-							17	<b>CL</b>	15.5 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							18		
-				100			19		
-	ASB-3-20	19.5-20	0.5			no	20		Total Depth = 20 ft bgs, no groundwater encountered
-							21		
-							22		
-							23		
-							24		
-							25		

Site: <b>5901 MacArthur Blvd, Oakland, CA</b> Client: <b>Huynh Cheng Family Living Trust</b> Project Number: <b>10HCT02.2000</b> Date(s) Drilled: <b>09/01/10</b> Date(s) Installed: <b>NA</b> Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Ground Elevation: <b>NA</b> T.O.C. Elevation: <b>NA</b> Coordinates: <b>NA</b> Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b> Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b> Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth _____ ft at drilling: <b>15</b> ft _____ after _____ hrs	
Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b> <b>Neat cement grout sealed borehle at the end of the same day.</b>	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 3 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-						2			
-				80		3			
-							4	<b>SP</b>	3 - 10 (?) ft, GRAVELLY SANDS FILL (SP), brown to dark brown
-	ASB-4-5	4.5-5.0	0.5			no	5		
-							6	<b>SC/ML</b>	10 - 17 ft, CLAYEY SAND TO CLAYEY SILT (SC/ML), dark brown
-							7		
-				40			8		
-						no	9		
-	ASB-4-10	10.0-10.5	0.7				10		
-							11	<b>CL</b>	17 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							12		
-				50			13		
-			13.5				14	<b>CL</b>	17 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity  Total Depth = 20 feet bgs
-	ASB-4-15	14.5-15	643			strong petro	15		
-	ASB-4-W		320				16		
-			9.5				17		
-							18	<b>CL</b>	17 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-				100			19		
-	ASB-4-20	19.5-20	0.5			no	20		
-							21	<b>CL</b>	17 - 20 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							22		
-							23		
-							24		
-							25		

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>09/01/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>25</b>
Apparent Groundwater Depth <u>Drilling Summary:</u> <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
<b>ft at drilling: no free water encountered</b> <b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft _____ after _____ hrs _____	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1		0 - 3 ft, AGGREGATES-SAND-SILT FILL (GM), brown
-							2	GM	
-				70			3		3 - 4 ft, GRAVELLY SANDS FILL (SP), dark brown
-							4	SP	
-	ASB-5-5	4.5-5.0	0.1			no	5		4 - 13 ft, SILT FILL (ML), dark brown
-							6		
-							7	ML	
-							8		
-							9		13 - 15 ft, AGGREGATES-SAND-SILT FILL (GM) moist around 15 ft, but no free water
-	ASB-5-10	9.5-10	0.2			no	10		
-							11		
-				40			12		
-							13		15 - 20 ft, SILTY SAND (SM), greenish moist around 15 ft, but no free water
-	ASB-5-15	14.5-15	0.1			no	15		
-							16	SM	
-							17		20 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
-							18		
-	ASB-5-20	19.5-20	0.1			no	20		
-							21	CL	
-							22		Total Depth = 25 ft bgs, no groundwater encountered
-							23		
-				100			24		
-			0.1			no	25		

OTG EnviroEngineering Solutions, Inc.	<b>BORING LOG</b> sheet 1 of 1	Boring ID	ASB-6
		Well ID	

Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>09/01/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>27.5</b>
Apparent Groundwater Depth	Drilling Summary: <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>
ft at drilling: <b>no free water encountered</b>	<b>Neat cement grout sealed borehle at the end of the same day.</b>
ft after	hrs

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1		0 - 5 ft, AGGREGATES-SAND-SILT FILL (GM), brown FILL
				80			2	GM	
							3		
							4		
	ASB-6-5	4.5-5.0	0.4			no	5		
							6		5 - 10 ft, GRAVELLY SANDS FILL (SP), dark brown
				60			7	SP	
							8		
							9		
	ASB-6-10	9.5-10	0.7			no	10		
							11		10 - 14 ft, AGGREGATES-SAND-SILT FILL (GM), dark brown
				80			12	GM	
							13		
							14		
	ASB-6-15	14.5-15	244			strong petro	15	SM	
							16		14 - 15.5 ft, SILTY SAND (SM), greenish moist around 15 ft, but no free water
				100			17		
			3				18		
							19		
	ASB-6-20	19.5-20	1.0			no	20		
							21		25.5 - 27.5 ft, SILTY CLAY (CL), light brown to yellowish brown firm to stiff, medium plasticity
				100			22	CL	
							23		
							24		
			0.1				25		
				100			26		
	ASB-6-27	27.0-27.5	0.1			no	27		
									Total Depth = 27.5 ft bgs, no groundwater encountered



Site: <b>5901 MacArthur Blvd, Oakland, CA</b>	Ground Elevation: <b>NA</b>
Client: <b>Huynh Cheng Family Living Trust</b>	T.O.C. Elevation: <b>NA</b>
Project Number: <b>10HCT02.2000</b>	Coordinates: <b>NA</b>
Date(s) Drilled: <b>09/01/10</b>	Drilling Method: <b>Direct Push, GeoProbe 7822 DT</b>
Date(s) Installed: <b>NA</b>	Final Borehole Diameter: <b>DualCore, 2.25" OD/1" ID</b>
Drilling Co./Driller: <b>PeneCore Drilling Co</b>	Borehole Total Depth, ft: <b>20</b>
Apparent Groundwater Depth <u>Drilling Summary:</u> <b>Advanced borehole to target depth with 5-foot sections of DualCore samplers</b>	
<b>ft at drilling: no groundwater encountered</b> <b>Neat cement grout sealed borehle at the end of the same day.</b>	
ft _____ after _____ hrs _____	

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
-			0.1			no	1	<b>GM</b>	0 - 14 ft, AGGREGATES-SAND-SILT FILL (GM) brown to dark brown
-							2		
-				80			3		
-							4		
-							5		
-			0.1			no	6		
-							7		
-				50			8		
-							9		
-							10		
-	ASB-7-10	9.5-10	4			no	10	<b>ML</b>	14 - 15 ft, CLAYEY SILT (ML), dark brown moist, but no free water
-							11		
-							12		
-				40			13		
-							14		
-	ASB-7-15	14.5-15	0.2			no	15	<b>CL</b>	15.5 - 20 ft, SILTY CLAY (CL), brown to yellowish brown firm to stiff, medium plasticity
-							16		
-							17		
-				100			18		
-							19		
-							20		
-	ASB-7-20	19.5-20	0.1			no	20		Total Depth = 20 ft bgs, no groundwater encountered
-							21		
-							22		
-							23		
-							24		
-							25		

Site: **5901 MacArthur Blvd, Oakland, CA**  
 Client: **Huynh Cheng Family Living Trust**  
 Project Number: **10HCT02.2000**  
 Date(s) Drilled: **08/31/10**  
 Date(s) Installed: **NA**  
 Drilling Co./Driller: **PeneCore Drilling Co**

Ground Elevation: **NA**  
 T.O.C. Elevation: **NA**  
 Coordinates: **NA**  
 Drilling Method: **Direct Push, GeoProbe 7822 DT**  
 Final Borehole Diameter: **DualCore, 2.25" OD/1" ID**  
 Borehole Total Depth, ft: **25**

Apparent Groundwater Depth: **ft \_\_\_\_\_ after \_\_\_\_\_ hrs**  
 Drilling Summary: **Advanced borehole to target depth with 5-foot sections of DualCore samplers**  
**Neat cement grout sealed borehle at the end of the same day.**

Well Construction Details	Sample No.	Sample Interval (ft)	PID Reading (ppm)	Recovery, %	Blow Counts	Odor	Depth (ft)	Graphic Log	LITHOLOGY/REMARKS
			0.1			no	1	GM	0 - 2 ft, AGGREGATES-SAND-SILT FILL (GM), brown
				90			2		2 - 14 ft, GRAVELLY SANDS FILL (SP), brown
							3		
							4		
	ASB-10-5	4.5-5.0	0.5			no	5		
							6	SP	
							7		
							8		
							9		
	ASB-10-10	9.5-10	0.5			no	10		
							11		
							12		
							13		
							14		
	ASB-10-15	14.5-15	155			petro	15	SM	14 - 16 ft, SILTY SAND (SM), dark green to dark gray slightly soft, but no free water, with petro odor
							16		
							17	CL	16 - 25 ft, SILTY CLAY (CL), light brown to yellowish brown, firm to stiff, medium plasticity
							18		
							19		
	ASB-10-20	19.5-20	1.0			no	20		
							21		
							22		
							23		
							24		
			0.5			no	25		

Total Depth = 25 ft bgs, no groundwater encountered

# APPENDIX C

## Laboratory Analytical Reports

## ANALYTICAL REPORT

Job Number: 720-30175-1

Job Description: B112-Oakland

For:

OTG EnviroEngineering Solutions, Inc.

7700 Edgewater Drive

Suite 260

Oakland, CA 94621

Attention: Mr. Xinggang Tong



Approved for release.  
Afsaneh Salimpour  
Project Manager I  
9/3/2010 4:36 PM

---

Afsaneh Salimpour  
Project Manager I  
afsaneh.salimpour@testamericainc.com  
09/03/2010

CA ELAP Certification # 2496

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**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-30175-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30175-1</b> Diesel Range Organics [C10-C28]	<b>NW-4-5</b>	12	0.99	mg/Kg	8015B
<b>720-30175-3</b> Gasoline Range Organics (GRO)-C5-C12 Diesel Range Organics [C10-C28]	<b>NW-4-15</b>	280000 740	25000 10	ug/Kg mg/Kg	8260B/CA_LUFTMS 8015B
<b>720-30175-5</b> Methyl tert-butyl ether Diesel Range Organics [C10-C28]	<b>NW-4-25</b>	6.0 2.7	5.0 1.0	ug/Kg mg/Kg	8260B/CA_LUFTMS 8015B
<b>720-30175-6</b> Gasoline Range Organics (GRO)-C5-C12 Diesel Range Organics [C10-C28]	<b>NW-4-W</b>	1700 2400	500 100	ug/L ug/L	8260B/CA_LUFTMS 8015B
<b>720-30175-7</b> Ethylbenzene Gasoline Range Organics (GRO)-C5-C12	<b>NW-4-WD</b>	5.7 2900	5.0 500	ug/L ug/L	8260B/CA_LUFTMS 8260B/CA_LUFTMS
<b>720-30175-8</b> Diesel Range Organics [C10-C28]	<b>SB-1-5</b>	13	1.0	mg/Kg	8015B
<b>720-30175-9</b> Diesel Range Organics [C10-C28]	<b>SB-1-15</b>	2.3	0.99	mg/Kg	8015B
<b>720-30175-10</b> Diesel Range Organics [C10-C28]	<b>SB-1-20</b>	1.2	0.99	mg/Kg	8015B
<b>720-30175-11</b> Diesel Range Organics [C10-C28]	<b>SB-2-5</b>	2.0	1.0	mg/Kg	8015B

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30175-12</b>	<b>SB-2-15</b>				
Gasoline Range Organics (GRO)-C5-C12		2100	1200	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		14	0.99	mg/Kg	8015B
<b>720-30175-13</b>	<b>SB-2-20</b>				
Diesel Range Organics [C10-C28]		1.4	0.99	mg/Kg	8015B
<b>720-30175-14</b>	<b>SB-2-W</b>				
Methyl tert-butyl ether		1.4	0.50	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		170	50	ug/L	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		120	100	ug/L	8015B
<b>720-30175-15</b>	<b>SB-3-10</b>				
Diesel Range Organics [C10-C28]		9.3	1.0	mg/Kg	8015B
<b>720-30175-16</b>	<b>SB-3-15</b>				
Gasoline Range Organics (GRO)-C5-C12		3300	240	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		480	9.9	mg/Kg	8015B
<b>720-30175-17</b>	<b>SB-3-20</b>				
Methyl tert-butyl ether		5.7	4.9	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		1.1	0.99	mg/Kg	8015B
<b>720-30175-19</b>	<b>SB-3-W</b>				
Methyl tert-butyl ether		10	0.50	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		340	50	ug/L	8260B/CA_LUFTMS
TBA		7.2	4.0	ug/L	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		360	100	ug/L	8015B

## METHOD SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
<b>Matrix: Water</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

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



## METHOD / ANALYST SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B/CA_LUFTMS	Chen, Amy	AC
SW846 8260B/CA_LUFTMS	Le, Lien	LL
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

## SAMPLE SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-30175-1	NW-4-5	Solid	08/30/2010 0912	08/30/2010 1333
720-30175-2	NW-4-10	Solid	08/30/2010 0917	08/30/2010 1333
720-30175-3	NW-4-15	Solid	08/30/2010 0920	08/30/2010 1333
720-30175-4	NW-4-20	Solid	08/30/2010 0924	08/30/2010 1333
720-30175-5	NW-4-25	Solid	08/30/2010 0928	08/30/2010 1333
720-30175-6	NW-4-W	Water	08/30/2010 1000	08/30/2010 1333
720-30175-7	NW-4-WD	Water	08/30/2010 1000	08/30/2010 1333
720-30175-8	SB-1-5	Solid	08/30/2010 1018	08/30/2010 1333
720-30175-9	SB-1-15	Solid	08/30/2010 1024	08/30/2010 1333
720-30175-10	SB-1-20	Solid	08/30/2010 1030	08/30/2010 1333
720-30175-11	SB-2-5	Solid	08/30/2010 1056	08/30/2010 1333
720-30175-12	SB-2-15	Solid	08/30/2010 1100	08/30/2010 1333
720-30175-13	SB-2-20	Solid	08/30/2010 1110	08/30/2010 1333
720-30175-14	SB-2-W	Water	08/30/2010 1130	08/30/2010 1333
720-30175-15	SB-3-10	Solid	08/30/2010 1155	08/30/2010 1333
720-30175-16	SB-3-15	Solid	08/30/2010 1200	08/30/2010 1333
720-30175-17	SB-3-20	Solid	08/30/2010 1205	08/30/2010 1333
720-30175-18	SB-3-25	Solid	08/30/2010 1210	08/30/2010 1333
720-30175-19	SB-3-W	Water	08/30/2010 1225	08/30/2010 1333
720-30175-20	TB-1	Water	08/30/2010 1235	08/30/2010 1333

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-5**

Lab Sample ID: 720-30175-1

Date Sampled: 08/30/2010 0912

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77150      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77158      Lab File ID: 08301015.D  
Dilution: 1.0      Initial Weight/Volume: 5.02 g  
Date Analyzed: 08/30/2010 1938      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1500

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		10
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-10**

Lab Sample ID: 720-30175-2

Date Sampled: 08/30/2010 0917

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301018.D
Dilution:	1.0		Initial Weight/Volume:	5 g
Date Analyzed:	08/30/2010 2112		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-15**

Lab Sample ID: 720-30175-3

Date Sampled: 08/30/2010 0920

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77107	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77200	Lab File ID:	08301016.D
Dilution:	1.0		Initial Weight/Volume:	1 g
Date Analyzed:	08/30/2010 1703		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1600			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		25
Benzene		ND		25
Ethylene Dibromide		ND		25
1,2-Dichloroethane		ND		25
Ethylbenzene		ND		25
Toluene		ND		25
Xylenes, Total		ND		50
TBA		ND		50
DIPE		ND		25
TAME		ND		25
Ethyl t-butyl ether		ND		25

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		52 - 140
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	102		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-15**

Lab Sample ID: 720-30175-3

Date Sampled: 08/30/2010 0920

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77186	Instrument ID:	HP9
Preparation:	5030B	Prep Batch: 720-77227	Lab File ID:	08311010.D
Dilution:	100		Initial Weight/Volume:	10.02 g
Date Analyzed:	08/31/2010 1313		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 0900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		280000		25000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		66 - 148
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
Toluene-d8 (Surr)	97		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-20**

Lab Sample ID: 720-30175-4

Date Sampled: 08/30/2010 0924

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301019.D
Dilution:	1.0		Initial Weight/Volume:	5.15 g
Date Analyzed:	08/30/2010 2143		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	90		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-25**

Lab Sample ID: 720-30175-5

Date Sampled: 08/30/2010 0928

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77150      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77158      Lab File ID: 08301020.D  
Dilution: 1.0      Initial Weight/Volume: 5.03 g  
Date Analyzed: 08/30/2010 2215      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1500

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		6.0		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	94		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-W**

Lab Sample ID: 720-30175-6

Date Sampled: 08/30/2010 1000

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77184      Instrument ID: HP5  
Preparation: 5030B      Lab File ID: 083110012.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/31/2010 1452      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1452

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	1700		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		67 - 130
Toluene-d8 (Surr)	101		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-WD**

Lab Sample ID: 720-30175-7

Date Sampled: 08/30/2010 1000

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77184      Instrument ID: HP5  
Preparation: 5030B      Lab File ID: 083110013.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/31/2010 1525      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1525

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	5.7		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	2900		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		67 - 130
Toluene-d8 (Surr)	103		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-5**

Lab Sample ID: 720-30175-8

Date Sampled: 08/30/2010 1018

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301021.D
Dilution:	1.0		Initial Weight/Volume:	5.06 g
Date Analyzed:	08/30/2010 2246		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		52 - 140
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-15**

Lab Sample ID: 720-30175-9

Date Sampled: 08/30/2010 1024

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77150      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77158      Lab File ID: 08301022.D  
Dilution: 1.0      Initial Weight/Volume: 5.05 g  
Date Analyzed: 08/30/2010 2317      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1500

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-20**

Lab Sample ID: 720-30175-10

Date Sampled: 08/30/2010 1030

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301023.D
Dilution:	1.0		Initial Weight/Volume:	5.04 g
Date Analyzed:	08/30/2010 2348		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-5**

Lab Sample ID: 720-30175-11

Date Sampled: 08/30/2010 1056

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301024.D
Dilution:	1.0		Initial Weight/Volume:	5.04 g
Date Analyzed:	08/31/2010 0019		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	78		52 - 140
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-15**

Lab Sample ID: 720-30175-12

Date Sampled: 08/30/2010 1100

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77107      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77200      Lab File ID: 08301017.D  
Dilution: 1.0      Initial Weight/Volume: 1 g  
Date Analyzed: 08/30/2010 1732      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1600

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		25
Benzene		ND		25
Ethylene Dibromide		ND		25
1,2-Dichloroethane		ND		25
Ethylbenzene		ND		25
Toluene		ND		25
Xylenes, Total		ND		50
Gasoline Range Organics (GRO)-C5-C12		2100		1200
TBA		ND		50
DIPE		ND		25
TAME		ND		25
Ethyl t-butyl ether		ND		25

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		52 - 140
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	100		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-20**

Lab Sample ID: 720-30175-13

Date Sampled: 08/30/2010 1110

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301025.D
Dilution:	1.0		Initial Weight/Volume:	5.07 g
Date Analyzed:	08/31/2010 0050		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	93		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-W**

Lab Sample ID: 720-30175-14

Date Sampled: 08/30/2010 1130

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77108      Instrument ID: HP4  
Preparation: 5030B      Lab File ID: 083010017.D  
Dilution: 1.0      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/30/2010 1804      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1804

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	1.4		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	170		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		67 - 130
Toluene-d8 (Surr)	100		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-10**

Lab Sample ID: 720-30175-15

Date Sampled: 08/30/2010 1155

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301026.D
Dilution:	1.0		Initial Weight/Volume:	5.02 g
Date Analyzed:	08/31/2010 0121		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	76		52 - 140
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	86		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-15**

Lab Sample ID: 720-30175-16

Date Sampled: 08/30/2010 1200

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301027.D
Dilution:	1.0		Initial Weight/Volume:	5.14 g
Date Analyzed:	08/31/2010 0152		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		3300		240
TBA		ND		9.7
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	84		52 - 140
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-20**

Lab Sample ID: 720-30175-17

Date Sampled: 08/30/2010 1205

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77150      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77158      Lab File ID: 08301028.D  
Dilution: 1.0      Initial Weight/Volume: 5.07 g  
Date Analyzed: 08/31/2010 0223      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1500

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		5.7		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	94		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-25**

Lab Sample ID: 720-30175-18

Date Sampled: 08/30/2010 1210

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77150	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77158	Lab File ID:	08301029.D
Dilution:	1.0		Initial Weight/Volume:	5.03 g
Date Analyzed:	08/31/2010 0254		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1500			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-W**

Lab Sample ID: 720-30175-19

Date Sampled: 08/30/2010 1225

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77108      Instrument ID: HP4  
Preparation: 5030B      Lab File ID: 083010018.D  
Dilution: 1.0      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/30/2010 1836      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1836

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	10		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	340		50
TBA	7.2		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		67 - 130
Toluene-d8 (Surr)	104		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: TB-1**

Lab Sample ID: 720-30175-20

Date Sampled: 08/30/2010 1235

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77111      Instrument ID: HP9  
Preparation: 5030B      Lab File ID: 08301016.D  
Dilution: 1.0      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/30/2010 1730      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1730

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130
Toluene-d8 (Surr)	98		70 - 130

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-5**

Lab Sample ID: 720-30175-1

Date Sampled: 08/30/2010 0912

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77122	Initial Weight/Volume:	30.38 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1253		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1644		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		12		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	93		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-15**

Lab Sample ID: 720-30175-3

Date Sampled: 08/30/2010 0920

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77187	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77122	Initial Weight/Volume:	30.15 g
Dilution:	10		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1316		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1644		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		740		10
Motor Oil Range Organics [C24-C36]		ND		500

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	102		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-25**

Lab Sample ID: 720-30175-5

Date Sampled: 08/30/2010 0928

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.08 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1732		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1056		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.7		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	66		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: NW-4-W**

Lab Sample ID: 720-30175-6

Date Sampled: 08/30/2010 1000

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3510C	Prep Batch: 720-77157	Initial Weight/Volume:	985 mL
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 0947		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1751		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	2400		100
Motor Oil Range Organics [C24-C36]	ND		600

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	102		23 - 156

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-5**

Lab Sample ID: 720-30175-8

Date Sampled: 08/30/2010 1018

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77180	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77122	Initial Weight/Volume:	30.03 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1044		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1644		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		13		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	114		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-15**

Lab Sample ID: 720-30175-9

Date Sampled: 08/30/2010 1024

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.36 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1921		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1332		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.3		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	113		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-1-20**

Lab Sample ID: 720-30175-10

Date Sampled: 08/30/2010 1030

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.16 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1943		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1332		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.2		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	101		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-5**

Lab Sample ID: 720-30175-11

Date Sampled: 08/30/2010 1056

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.03 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 2005		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1332		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.0		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	111		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-15**

Lab Sample ID: 720-30175-12

Date Sampled: 08/30/2010 1100

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77122	Initial Weight/Volume:	30.17 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1316		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1644		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		14		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	104		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-20**

Lab Sample ID: 720-30175-13

Date Sampled: 08/30/2010 1110

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.18 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 2027		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1332		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.4		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	108		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-2-W**

Lab Sample ID: 720-30175-14

Date Sampled: 08/30/2010 1130

Client Matrix: Water

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3510C	Prep Batch: 720-77157	Initial Weight/Volume:	965 mL
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1010		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1751		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	120		100
Motor Oil Range Organics [C24-C36]	ND		620

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	94		23 - 156

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-10**

Lab Sample ID: 720-30175-15

Date Sampled: 08/30/2010 1155

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.06 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 2049		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1332		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		9.3		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	112		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-15**

Lab Sample ID: 720-30175-16

Date Sampled: 08/30/2010 1200

Client Matrix: Solid

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77122	Initial Weight/Volume:	30.37 g
Dilution:	10		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1346		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1644		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		480		9.9
Motor Oil Range Organics [C24-C36]		ND		490

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	110		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-20**

Lab Sample ID: 720-30175-17

Date Sampled: 08/30/2010 1205

Client Matrix: Solid

Date Received: 08/30/2010 1333

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77206	Initial Weight/Volume:	30.30 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 2320		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1608		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.1		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	114		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Client Sample ID: SB-3-W**

Lab Sample ID: 720-30175-19

Date Sampled: 08/30/2010 1225

Client Matrix: Water

Date Received: 08/30/2010 1333

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3510C	Prep Batch: 720-77157	Initial Weight/Volume:	950 mL
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1034		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1751		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	360		100
Motor Oil Range Organics [C24-C36]	ND		630

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	98		23 - 156

## DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77107</b>					
LCS 720-77200/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77200
LCS 720-77200/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77200
LCSD 720-77200/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77200
LCSD 720-77200/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77200
MB 720-77200/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77200
720-30175-3	NW-4-15	T	Solid	8260B/CA_LUFT	720-77200
720-30175-12	SB-2-15	T	Solid	8260B/CA_LUFT	720-77200
<b>Analysis Batch:720-77108</b>					
LCS 720-77108/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77108/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77108/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77108/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77108/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30175-14	SB-2-W	T	Water	8260B/CA_LUFT	
720-30175-19	SB-3-W	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-77111</b>					
LCS 720-77111/6	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77111/8	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77111/7	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77111/9	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77111/5	Method Blank	T	Water	8260B/CA_LUFT	
720-30175-20	TB-1	T	Water	8260B/CA_LUFT	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77150</b>					
LCS 720-77158/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77158
LCS 720-77158/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77158
LCSD 720-77158/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77158
LCSD 720-77158/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77158
MB 720-77158/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77158
720-30175-1	NW-4-5	T	Solid	8260B/CA_LUFT	720-77158
720-30175-1MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77158
720-30175-1MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77158
720-30175-2	NW-4-10	T	Solid	8260B/CA_LUFT	720-77158
720-30175-4	NW-4-20	T	Solid	8260B/CA_LUFT	720-77158
720-30175-5	NW-4-25	T	Solid	8260B/CA_LUFT	720-77158
720-30175-8	SB-1-5	T	Solid	8260B/CA_LUFT	720-77158
720-30175-9	SB-1-15	T	Solid	8260B/CA_LUFT	720-77158
720-30175-10	SB-1-20	T	Solid	8260B/CA_LUFT	720-77158
720-30175-11	SB-2-5	T	Solid	8260B/CA_LUFT	720-77158
720-30175-13	SB-2-20	T	Solid	8260B/CA_LUFT	720-77158
720-30175-15	SB-3-10	T	Solid	8260B/CA_LUFT	720-77158
720-30175-16	SB-3-15	T	Solid	8260B/CA_LUFT	720-77158
720-30175-17	SB-3-20	T	Solid	8260B/CA_LUFT	720-77158
720-30175-18	SB-3-25	T	Solid	8260B/CA_LUFT	720-77158
<b>Prep Batch: 720-77158</b>					
LCS 720-77158/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77158/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77158/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77158/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77158/1-A	Method Blank	T	Solid	5030B	
720-30175-1	NW-4-5	T	Solid	5030B	
720-30175-1MS	Matrix Spike	T	Solid	5030B	
720-30175-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-30175-2	NW-4-10	T	Solid	5030B	
720-30175-4	NW-4-20	T	Solid	5030B	
720-30175-5	NW-4-25	T	Solid	5030B	
720-30175-8	SB-1-5	T	Solid	5030B	
720-30175-9	SB-1-15	T	Solid	5030B	
720-30175-10	SB-1-20	T	Solid	5030B	
720-30175-11	SB-2-5	T	Solid	5030B	
720-30175-13	SB-2-20	T	Solid	5030B	
720-30175-15	SB-3-10	T	Solid	5030B	
720-30175-16	SB-3-15	T	Solid	5030B	
720-30175-17	SB-3-20	T	Solid	5030B	
720-30175-18	SB-3-25	T	Solid	5030B	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77184</b>					
LCS 720-77184/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77184/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77184/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77184/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77184/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30175-6	NW-4-W	T	Water	8260B/CA_LUFT	
720-30175-7	NW-4-WD	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-77186</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCS 720-77227/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77227
MB 720-77227/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77227
720-30175-3	NW-4-15	T	Solid	8260B/CA_LUFT	720-77227
<b>Prep Batch: 720-77200</b>					
LCS 720-77200/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77200/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77200/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77200/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77200/1-A	Method Blank	T	Solid	5030B	
720-30175-3	NW-4-15	T	Solid	5030B	
720-30175-12	SB-2-15	T	Solid	5030B	
<b>Prep Batch: 720-77227</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77227/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77227/1-A	Method Blank	T	Solid	5030B	
720-30175-3	NW-4-15	T	Solid	5030B	

**Report Basis**

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77106</b>					
LCS 720-77122/2-A	Lab Control Sample	T	Solid	8015B	720-77122
LCSD 720-77122/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77122
MB 720-77122/1-A	Method Blank	T	Solid	8015B	720-77122
<b>Prep Batch: 720-77122</b>					
LCS 720-77122/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77122/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77122/1-A	Method Blank	T	Solid	3550B	
720-30175-1	NW-4-5	T	Solid	3550B	
720-30175-3	NW-4-15	T	Solid	3550B	
720-30175-8	SB-1-5	T	Solid	3550B	
720-30175-12	SB-2-15	T	Solid	3550B	
720-30175-16	SB-3-15	T	Solid	3550B	
<b>Prep Batch: 720-77157</b>					
LCS 720-77157/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-77157/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-77157/1-A	Method Blank	T	Water	3510C	
720-30175-6	NW-4-W	T	Water	3510C	
720-30175-14	SB-2-W	T	Water	3510C	
720-30175-19	SB-3-W	T	Water	3510C	
<b>Analysis Batch:720-77179</b>					
LCS 720-77206/2-A	Lab Control Sample	T	Solid	8015B	720-77206
LCSD 720-77206/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77206
MB 720-77206/1-A	Method Blank	T	Solid	8015B	720-77206
720-30175-5	NW-4-25	T	Solid	8015B	720-77206
720-30175-9	SB-1-15	T	Solid	8015B	720-77206
720-30175-10	SB-1-20	T	Solid	8015B	720-77206
720-30175-11	SB-2-5	T	Solid	8015B	720-77206
720-30175-13	SB-2-20	T	Solid	8015B	720-77206
720-30175-15	SB-3-10	T	Solid	8015B	720-77206
<b>Analysis Batch:720-77180</b>					
720-30175-8	SB-1-5	T	Solid	8015B	720-77122
<b>Analysis Batch:720-77187</b>					
720-30175-3	NW-4-15	T	Solid	8015B	720-77122

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77188</b>					
LCS 720-77157/2-A	Lab Control Sample	T	Water	8015B	720-77157
LCSD 720-77157/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-77157
MB 720-77157/1-A	Method Blank	T	Water	8015B	720-77157
720-30175-1	NW-4-5	T	Solid	8015B	720-77122
720-30175-6	NW-4-W	T	Water	8015B	720-77157
720-30175-12	SB-2-15	T	Solid	8015B	720-77122
720-30175-14	SB-2-W	T	Water	8015B	720-77157
720-30175-16	SB-3-15	T	Solid	8015B	720-77122
720-30175-17	SB-3-20	T	Solid	8015B	720-77206
720-30175-19	SB-3-W	T	Water	8015B	720-77157
<b>Prep Batch: 720-77206</b>					
LCS 720-77206/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77206/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77206/1-A	Method Blank	T	Solid	3550B	
720-30175-5	NW-4-25	T	Solid	3550B	
720-30175-9	SB-1-15	T	Solid	3550B	
720-30175-10	SB-1-20	T	Solid	3550B	
720-30175-11	SB-2-5	T	Solid	3550B	
720-30175-13	SB-2-20	T	Solid	3550B	
720-30175-15	SB-3-10	T	Solid	3550B	
720-30175-17	SB-3-20	T	Solid	3550B	
<b>Analysis Batch:720-77271</b>					
MB 720-77206/1-A	Method Blank	T	Solid	8015B	720-77206

**Report Basis**

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77108**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77108/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/30/2010 1135  
 Date Prepared: 08/30/2010 1135

Analysis Batch: 720-77108  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: HP4  
 Lab File ID: 083010005.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	99	67 - 130	
1,2-Dichloroethane-d4 (Surr)	106	67 - 130	
Toluene-d8 (Surr)	102	70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77108**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77108/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1207  
Date Prepared: 08/30/2010 1207

Analysis Batch: 720-77108  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083010006.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77108/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1239  
Date Prepared: 08/30/2010 1239

Analysis Batch: 720-77108  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083010007.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	111	115	62 - 130	4	20		
Benzene	101	101	82 - 127	1	20		
Ethylene Dibromide	104	107	70 - 130	3	20		
1,2-Dichloroethane	100	101	70 - 126	1	20		
Ethylbenzene	106	104	86 - 135	2	20		
Toluene	105	103	83 - 129	2	20		
m-Xylene & p-Xylene	103	101	70 - 142	3	20		
o-Xylene	105	103	89 - 136	1	20		
TBA	93	96	82 - 116	3	20		
DIPE	104	106	74 - 155	2	20		
TAME	118	122	79 - 129	3	20		
Ethyl t-butyl ether	106	109	70 - 130	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	99		99		67 - 130		
1,2-Dichloroethane-d4 (Surr)	97		99		67 - 130		
Toluene-d8 (Surr)	99		99		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77108**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77108/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1311  
Date Prepared: 08/30/2010 1311

Analysis Batch: 720-77108  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083010008.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77108/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1343  
Date Prepared: 08/30/2010 1343

Analysis Batch: 720-77108  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083010009.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	90	84	59 - 111	6	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	101		99			67 - 130	
1,2-Dichloroethane-d4 (Surr)	98		100			67 - 130	
Toluene-d8 (Surr)	99		99			70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77111**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77111/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/30/2010 1104  
 Date Prepared: 08/30/2010 1104

Analysis Batch: 720-77111  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: HP9  
 Lab File ID: 08301005.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	101	67 - 130	
1,2-Dichloroethane-d4 (Surr)	99	67 - 130	
Toluene-d8 (Surr)	101	70 - 130	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77111**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77111/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1153  
Date Prepared: 08/30/2010 1153

Analysis Batch: 720-77111  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP9  
Lab File ID: 08301006.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77111/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1225  
Date Prepared: 08/30/2010 1225

Analysis Batch: 720-77111  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP9  
Lab File ID: 08301007.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	98	99	62 - 130	1	20		
Benzene	100	101	82 - 127	1	20		
Ethylene Dibromide	103	104	70 - 130	2	20		
1,2-Dichloroethane	95	96	70 - 126	1	20		
Ethylbenzene	98	99	86 - 135	1	20		
Toluene	100	101	83 - 129	1	20		
m-Xylene & p-Xylene	95	95	70 - 142	1	20		
o-Xylene	97	98	89 - 136	1	20		
TBA	94	96	82 - 116	2	20		
DIPE	96	96	74 - 155	0	20		
TAME	103	105	79 - 129	2	20		
Ethyl t-butyl ether	93	94	70 - 130	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	101		100		67 - 130		
1,2-Dichloroethane-d4 (Surr)	96		95		67 - 130		
Toluene-d8 (Surr)	104		104		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77111**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77111/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1258  
Date Prepared: 08/30/2010 1258

Analysis Batch: 720-77111  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP9  
Lab File ID: 08301008.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77111/9  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1330  
Date Prepared: 08/30/2010 1330

Analysis Batch: 720-77111  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP9  
Lab File ID: 08301009.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	83	86	59 - 111	3	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	103		101			67 - 130	
1,2-Dichloroethane-d4 (Surr)	94		94			67 - 130	
Toluene-d8 (Surr)	102		103			70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### Method Blank - Batch: 720-77158

Lab Sample ID: MB 720-77158/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1907  
Date Prepared: 08/30/2010 1400

Analysis Batch: 720-77150  
Prep Batch: 720-77158  
Units: ug/Kg

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: CHMSV2  
Lab File ID: 08301014.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	52 - 140
1,2-Dichloroethane-d4 (Surr)	97	60 - 140
Toluene-d8 (Surr)	95	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77158**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77158/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1703  
Date Prepared: 08/30/2010 1400

Analysis Batch: 720-77150  
Prep Batch: 720-77158  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301010.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77158/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1734  
Date Prepared: 08/30/2010 1400

Analysis Batch: 720-77150  
Prep Batch: 720-77158  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301011.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	95	97	71 - 144	1	20		
Benzene	93	93	82 - 124	1	20		
Ethylene Dibromide	101	101	79 - 140	0	20		
1,2-Dichloroethane	93	93	78 - 140	0	20		
Ethylbenzene	96	96	80 - 137	1	20		
Toluene	96	96	83 - 128	0	20		
m-Xylene & p-Xylene	93	92	79 - 146	1	20		
o-Xylene	96	96	84 - 140	1	20		
TBA	92	92	76 - 119	0	20		
DIPE	91	92	83 - 131	1	20		
TAME	100	101	74 - 140	1	20		
Ethyl t-butyl ether	92	94	76 - 129	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	96		96		52 - 140		
1,2-Dichloroethane-d4 (Surr)	94		95		60 - 140		
Toluene-d8 (Surr)	95		94		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77158**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77158/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1805  
Date Prepared: 08/30/2010 1400

Analysis Batch: 720-77150  
Prep Batch: 720-77158  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301012.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77158/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1836  
Date Prepared: 08/30/2010 1500

Analysis Batch: 720-77150  
Prep Batch: 720-77158  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301013.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	83	84	61 - 128	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	99		99			52 - 140	
1,2-Dichloroethane-d4 (Surr)	97		98			60 - 140	
Toluene-d8 (Surr)	95		95			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77158**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30175-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2009  
Date Prepared: 08/30/2010 1500

Analysis Batch: 720-77150  
Prep Batch: 720-77158

Instrument ID: CHMSV2  
Lab File ID: 08301016.D  
Initial Weight/Volume: 5.08 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30175-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2041  
Date Prepared: 08/30/2010 1500

Analysis Batch: 720-77150  
Prep Batch: 720-77158

Instrument ID: CHMSV2  
Lab File ID: 08301017.D  
Initial Weight/Volume: 5.04 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	93	91	69 - 130	2	20		
Benzene	94	94	70 - 130	1	20		
Ethylene Dibromide	97	93	66 - 135	3	20		
1,2-Dichloroethane	91	89	70 - 130	1	20		
Ethylbenzene	98	98	65 - 130	1	20		
Toluene	99	100	70 - 130	1	20		
m-Xylene & p-Xylene	95	95	70 - 130	1	20		
o-Xylene	98	98	68 - 130	0	20		
TBA	92	92	70 - 130	1	20		
DIPE	92	91	70 - 130	0	20		
TAME	96	93	70 - 130	2	20		
Ethyl t-butyl ether	92	90	70 - 130	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	93	92	52 - 140
1,2-Dichloroethane-d4 (Surr)	92	91	60 - 140
Toluene-d8 (Surr)	94	94	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77184**

Lab Sample ID: MB 720-77184/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 0955  
 Date Prepared: 08/31/2010 0955

Analysis Batch: 720-77184  
 Prep Batch: N/A  
 Units: ug/L

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: HP5  
 Lab File ID: 083110004.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	97	67 - 130	
1,2-Dichloroethane-d4 (Surr)	101	67 - 130	
Toluene-d8 (Surr)	97	70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77184**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77184/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1045  
Date Prepared: 08/31/2010 1045

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110005.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77184/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1117  
Date Prepared: 08/31/2010 1117

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110006.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	112	113	62 - 130	0	20		
Benzene	101	102	82 - 127	0	20		
Ethylene Dibromide	111	110	70 - 130	1	20		
1,2-Dichloroethane	102	101	70 - 126	0	20		
Ethylbenzene	110	110	86 - 135	0	20		
Toluene	105	105	83 - 129	0	20		
m-Xylene & p-Xylene	111	110	70 - 142	0	20		
o-Xylene	111	110	89 - 136	1	20		
TBA	97	95	82 - 116	2	20		
DIPE	106	107	74 - 155	0	20		
TAME	113	114	79 - 129	0	20		
Ethyl t-butyl ether	108	108	70 - 130	0	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	107		106		67 - 130		
1,2-Dichloroethane-d4 (Surr)	100		100		67 - 130		
Toluene-d8 (Surr)	101		100		70 - 130		



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77184**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77184/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1150  
Date Prepared: 08/31/2010 1150

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110007.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77184/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1223  
Date Prepared: 08/31/2010 1223

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110008.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	97	103	59 - 111	6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	105		105		67 - 130		
1,2-Dichloroethane-d4 (Surr)	99		99		67 - 130		
Toluene-d8 (Surr)	100		100		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77200**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77200/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 08/30/2010 1024  
 Date Prepared: 08/30/2010 0800

Analysis Batch: 720-77107  
 Prep Batch: 720-77200  
 Units: ug/Kg

Instrument ID: HP12  
 Lab File ID: 08301004.D  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	52 - 140
1,2-Dichloroethane-d4 (Surr)	108	60 - 140
Toluene-d8 (Surr)	100	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77200**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77200/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1113  
Date Prepared: 08/30/2010 0800

Analysis Batch: 720-77107  
Prep Batch: 720-77200  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301005.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77200/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1144  
Date Prepared: 08/30/2010 0800

Analysis Batch: 720-77107  
Prep Batch: 720-77200  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301006.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	114	105	71 - 144	9	20		
Benzene	100	93	82 - 124	7	20		
Ethylene Dibromide	117	108	79 - 140	8	20		
1,2-Dichloroethane	115	105	78 - 140	9	20		
Ethylbenzene	105	100	80 - 137	4	20		
Toluene	98	95	83 - 128	4	20		
m-Xylene & p-Xylene	103	99	79 - 146	4	20		
o-Xylene	105	100	84 - 140	6	20		
TBA	101	89	76 - 119	13	20		
DIPE	104	99	83 - 131	5	20		
TAME	120	114	74 - 140	5	20		
Ethyl t-butyl ether	111	104	76 - 129	6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	105		105		52 - 140		
1,2-Dichloroethane-d4 (Surr)	112		111		60 - 140		
Toluene-d8 (Surr)	105		104		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77200**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77200/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1213  
Date Prepared: 08/30/2010 0800

Analysis Batch: 720-77107  
Prep Batch: 720-77200  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301007.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77200/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 1243  
Date Prepared: 08/30/2010 0800

Analysis Batch: 720-77107  
Prep Batch: 720-77200  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301008.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	100	100	61 - 128	0	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	105		105		52 - 140		
1,2-Dichloroethane-d4 (Surr)	116		117		60 - 140		
Toluene-d8 (Surr)	102		104		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77227/1-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1000  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311004.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		25000
Surrogate	% Rec		Acceptance Limits
4-Bromofluorobenzene	98		66 - 148
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
Toluene-d8 (Surr)	97		65 - 141
Surrogate	% Rec		Acceptance Limits
4-Bromofluorobenzene	97		66 - 148
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
Toluene-d8 (Surr)	98		65 - 141

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77227/4-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1137  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311007.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77227/5-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1209  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311008.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	84	80	70 - 130	5	20		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
4-Bromofluorobenzene		100	99			66 - 148	
1,2-Dichloroethane-d4 (Surr)		96	94			62 - 137	
Toluene-d8 (Surr)		99	98			65 - 141	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77122**

**Method: 8015B  
Preparation: 3550B**

Lab Sample ID: MB 720-77122/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2342  
Date Prepared: 08/30/2010 1121

Analysis Batch: 720-77106  
Prep Batch: 720-77122  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0830105b\_041.d  
Initial Weight/Volume: 30.24 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50
<hr/>			
Surrogate	% Rec	Acceptance Limits	
p-Terphenyl	83	31 - 114	

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77122**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77122/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2255  
Date Prepared: 08/30/2010 1121

Analysis Batch: 720-77106  
Prep Batch: 720-77122  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0830105b\_039.d  
Initial Weight/Volume: 30.12 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77122/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2319  
Date Prepared: 08/30/2010 1121

Analysis Batch: 720-77106  
Prep Batch: 720-77122  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0830105b\_040.d  
Initial Weight/Volume: 30.22 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	103	102	59 - 134	1	35		
<hr/>							
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
p-Terphenyl	108	104	31 - 114				

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Method Blank - Batch: 720-77157**

Lab Sample ID: MB 720-77157/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 1207  
 Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
 Prep Batch: 720-77157  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C**

Instrument ID: CHDRO5  
 Lab File ID: 0831105b\_014.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300
<hr/>			
Surrogate	% Rec	Acceptance Limits	
p-Terphenyl	110	23 - 156	

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-77157**

LCS Lab Sample ID: LCS 720-77157/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 1120  
 Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
 Prep Batch: 720-77157  
 Units: ug/L

Instrument ID: CHDRO5  
 Lab File ID: 0831105b\_012.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77157/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 1144  
 Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
 Prep Batch: 720-77157  
 Units: ug/L

Instrument ID: CHDRO5  
 Lab File ID: 0831105b\_013.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	75	71	40 - 150	5	35		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	110		108		23 - 156		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

### Method Blank - Batch: 720-77206

Lab Sample ID: MB 720-77206/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2216  
Date Prepared: 08/31/2010 1056

Analysis Batch: 720-77179  
Prep Batch: 720-77206  
Units: mg/Kg

### Method: 8015B Preparation: 3550B

Instrument ID: CHDRO6  
Lab File ID: FID1000039.D  
Initial Weight/Volume: 30.16 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Motor Oil Range Organics [C24-C36]	ND		50
Surrogate	% Rec		Acceptance Limits
p-Terphenyl	72		31 - 114

### Method Blank - Batch: 720-77206

Lab Sample ID: MB 720-77206/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 1026  
Date Prepared: 08/31/2010 1056

Analysis Batch: 720-77271  
Prep Batch: 720-77206  
Units: mg/Kg

### Method: 8015B Preparation: 3550B

Instrument ID: CHDRO5  
Lab File ID: 0901105a\_008.d  
Initial Weight/Volume: 30.16 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77206**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77206/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2132  
Date Prepared: 08/31/2010 1056

Analysis Batch: 720-77179  
Prep Batch: 720-77206  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000037.D  
Initial Weight/Volume: 30.08 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77206/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2154  
Date Prepared: 08/31/2010 1056

Analysis Batch: 720-77179  
Prep Batch: 720-77206  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000038.D  
Initial Weight/Volume: 30.17 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	94	98	59 - 134	4	35		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	96		99			31 - 114	





## Login Sample Receipt Check List

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30175-1

**Login Number: 30175**

**Creator: Mullen, Joan**

**List Number: 1**

**List Source: TestAmerica San Francisco**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## ANALYTICAL REPORT

Job Number: 720-30184-1

Job Description: B112-Oakland

For:

OTG EnviroEngineering Solutions, Inc.

7700 Edgewater Drive

Suite 260

Oakland, CA 94621

Attention: Mr. Xinggang Tong



Approved for release.  
Afsaneh Salimpour  
Project Manager I  
9/1/2010 9:44 AM

---

Afsaneh Salimpour  
Project Manager I  
afsaneh.salimpour@testamericainc.com  
09/01/2010

CA ELAP Certification # 2496

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**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-30184-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30184-1</b>	<b>SB-4-5</b>				
Diesel Range Organics [C10-C28]		23	2.0	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		120	98	mg/Kg	8015B
<b>720-30184-3</b>	<b>SB-4-15</b>				
Gasoline Range Organics (GRO)-C5-C12		5200	1200	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		35	0.99	mg/Kg	8015B
<b>720-30184-5</b>	<b>SB-4-25</b>				
Methyl tert-butyl ether		49	4.9	ug/Kg	8260B/CA_LUFTMS
TBA		40	9.8	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		11	0.99	mg/Kg	8015B
<b>720-30184-6</b>	<b>NW-2-5</b>				
Diesel Range Organics [C10-C28]		11	0.99	mg/Kg	8015B
<b>720-30184-8</b>	<b>NW-2-15</b>				
Gasoline Range Organics (GRO)-C5-C12		82000	24000	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		88	0.98	mg/Kg	8015B
<b>720-30184-9</b>	<b>NW-2-20</b>				
Diesel Range Organics [C10-C28]		4.9	0.99	mg/Kg	8015B
<b>720-30184-10</b>	<b>NW-2-W</b>				
Gasoline Range Organics (GRO)-C5-C12		1600	500	ug/L	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		2200	110	ug/L	8015B
<b>720-30184-11</b>	<b>NW-1-5</b>				
Diesel Range Organics [C10-C28]		5.9	0.99	mg/Kg	8015B
<b>720-30184-13</b>	<b>NW-1-15</b>				
Gasoline Range Organics (GRO)-C5-C12		130000	24000	ug/Kg	8260B/CA_LUFTMS
Xylenes, Total		990	49	ug/Kg	8260B/CA_LUFTMS
Ethylbenzene		840	480	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		13	0.98	mg/Kg	8015B

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-30184-15 Diesel Range Organics [C10-C28]	NW-1-25	1.0	0.99	mg/Kg	8015B



## METHOD SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
<b>Matrix: Water</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

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

## METHOD / ANALYST SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B/CA_LUFTMS	Chen, Amy	AC
SW846 8260B/CA_LUFTMS	Le, Lien	LL
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

## SAMPLE SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-30184-1	SB-4-5	Solid	08/30/2010 1345	08/30/2010 1730
720-30184-2	SB-4-10	Solid	08/30/2010 1430	08/30/2010 1730
720-30184-3	SB-4-15	Solid	08/30/2010 1440	08/30/2010 1730
720-30184-4	SB-4-20	Solid	08/30/2010 1448	08/30/2010 1730
720-30184-5	SB-4-25	Solid	08/30/2010 1455	08/30/2010 1730
720-30184-6	NW-2-5	Solid	08/30/2010 1525	08/30/2010 1730
720-30184-7	NW-2-10	Solid	08/30/2010 1530	08/30/2010 1730
720-30184-8	NW-2-15	Solid	08/30/2010 1534	08/30/2010 1730
720-30184-9	NW-2-20	Solid	08/30/2010 1537	08/30/2010 1730
720-30184-10	NW-2-W	Water	08/30/2010 1555	08/30/2010 1730
720-30184-11	NW-1-5	Solid	08/30/2010 1611	08/30/2010 1730
720-30184-12	NW-1-10	Solid	08/30/2010 1615	08/30/2010 1730
720-30184-13	NW-1-15	Solid	08/30/2010 1620	08/30/2010 1730
720-30184-14	NW-1-20	Solid	08/30/2010 1625	08/30/2010 1730
720-30184-15	NW-1-25	Solid	08/30/2010 1630	08/30/2010 1730

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-5**

Lab Sample ID: 720-30184-1

Date Sampled: 08/30/2010 1345

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301034.D  
Dilution: 1.0      Initial Weight/Volume: 5.09 g  
Date Analyzed: 08/31/2010 0151      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	111		60 - 140
Toluene-d8 (Surr)	95		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-10**

Lab Sample ID: 720-30184-2

Date Sampled: 08/30/2010 1430

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77163	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77210	Lab File ID:	08301035.D
Dilution:	1.0		Initial Weight/Volume:	5.12 g
Date Analyzed:	08/31/2010 0221		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1800			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
Toluene-d8 (Surr)	94		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-15**

Lab Sample ID: 720-30184-3

Date Sampled: 08/30/2010 1440

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301030.D  
Dilution: 1.0      Initial Weight/Volume: 1.07 g  
Date Analyzed: 08/30/2010 2351      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		23
Benzene		ND		23
Ethylene Dibromide		ND		23
1,2-Dichloroethane		ND		23
Ethylbenzene		ND		23
Toluene		ND		23
Xylenes, Total		ND		47
Gasoline Range Organics (GRO)-C5-C12		5200		1200
TBA		ND		47
DIPE		ND		23
TAME		ND		23
Ethyl t-butyl ether		ND		23

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		52 - 140
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	98		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-20**

Lab Sample ID: 720-30184-4

Date Sampled: 08/30/2010 1448

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301036.D  
Dilution: 1.0      Initial Weight/Volume: 5.12 g  
Date Analyzed: 08/31/2010 0251      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	111		60 - 140
Toluene-d8 (Surr)	96		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-25**

Lab Sample ID: 720-30184-5

Date Sampled: 08/30/2010 1455

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301037.D  
Dilution: 1.0      Initial Weight/Volume: 5.09 g  
Date Analyzed: 08/31/2010 0321      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		49		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		40		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		52 - 140
1,2-Dichloroethane-d4 (Surr)	114		60 - 140
Toluene-d8 (Surr)	97		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-5**

Lab Sample ID: 720-30184-6

Date Sampled: 08/30/2010 1525

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301038.D  
Dilution: 1.0      Initial Weight/Volume: 5.18 g  
Date Analyzed: 08/31/2010 0351      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	82		52 - 140
1,2-Dichloroethane-d4 (Surr)	122		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-10**

Lab Sample ID: 720-30184-7

Date Sampled: 08/30/2010 1530

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301039.D  
Dilution: 1.0      Initial Weight/Volume: 5.23 g  
Date Analyzed: 08/31/2010 0421      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	117		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-15**

Lab Sample ID: 720-30184-8

Date Sampled: 08/30/2010 1534

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301040.D  
Dilution: 1.0      Initial Weight/Volume: 5.08 g  
Date Analyzed: 08/31/2010 0451      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
TBA		ND		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	87		52 - 140
1,2-Dichloroethane-d4 (Surr)	114		60 - 140
Toluene-d8 (Surr)	100		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-15**

Lab Sample ID: 720-30184-8

Date Sampled: 08/30/2010 1534

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77186	Instrument ID:	HP9
Preparation:	5030B	Prep Batch: 720-77227	Lab File ID:	08311017.D
Dilution:	100		Initial Weight/Volume:	10.36 g
Date Analyzed:	08/31/2010 1705		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 0900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		82000		24000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	109		66 - 148
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
Toluene-d8 (Surr)	98		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-20**

Lab Sample ID: 720-30184-9

Date Sampled: 08/30/2010 1537

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301041.D  
Dilution: 1.0      Initial Weight/Volume: 5.02 g  
Date Analyzed: 08/31/2010 0520      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		10
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		52 - 140
1,2-Dichloroethane-d4 (Surr)	109		60 - 140
Toluene-d8 (Surr)	98		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-W**

Lab Sample ID: 720-30184-10

Client Matrix: Water

Date Sampled: 08/30/2010 1555

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77184      Instrument ID: HP5  
Preparation: 5030B      Lab File ID: 083110014.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/31/2010 1557      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1557

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	1600		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	107		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		67 - 130
Toluene-d8 (Surr)	100		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-5**

Lab Sample ID: 720-30184-11

Date Sampled: 08/30/2010 1611

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301042.D  
Dilution: 1.0      Initial Weight/Volume: 5.10 g  
Date Analyzed: 08/31/2010 0550      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	77		52 - 140
1,2-Dichloroethane-d4 (Surr)	120		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-10**

Lab Sample ID: 720-30184-12

Date Sampled: 08/30/2010 1615

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77163	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77210	Lab File ID:	08301043.D
Dilution:	1.0		Initial Weight/Volume:	5.06 g
Date Analyzed:	08/31/2010 0620		Final Weight/Volume:	10 mL
Date Prepared:	08/30/2010 1800			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		52 - 140
1,2-Dichloroethane-d4 (Surr)	117		60 - 140
Toluene-d8 (Surr)	95		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-15**

Lab Sample ID: 720-30184-13

Date Sampled: 08/30/2010 1620

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301031.D  
Dilution: 1.0      Initial Weight/Volume: 1.03 g  
Date Analyzed: 08/31/2010 0021      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		24
Benzene		ND		24
Ethylene Dibromide		ND		24
1,2-Dichloroethane		ND		24
Toluene		ND		24
Xylenes, Total		990		49
TBA		ND		49
DIPE		ND		24
TAME		ND		24
Ethyl t-butyl ether		ND		24

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	131		52 - 140
1,2-Dichloroethane-d4 (Surr)	112		60 - 140
Toluene-d8 (Surr)	100		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-15**

Lab Sample ID: 720-30184-13

Date Sampled: 08/30/2010 1620

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77186	Instrument ID:	HP9
Preparation:	5030B	Prep Batch: 720-77227	Lab File ID:	08311014.D
Dilution:	100		Initial Weight/Volume:	10.46 g
Date Analyzed:	08/31/2010 1529		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 0900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		130000		24000
Ethylbenzene		840		480

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	106		66 - 148
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
Toluene-d8 (Surr)	99		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-20**

Lab Sample ID: 720-30184-14

Date Sampled: 08/30/2010 1625

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301044.D  
Dilution: 1.0      Initial Weight/Volume: 4.99 g  
Date Analyzed: 08/31/2010 0650      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		52 - 140
1,2-Dichloroethane-d4 (Surr)	116		60 - 140
Toluene-d8 (Surr)	98		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-25**

Lab Sample ID: 720-30184-15

Date Sampled: 08/30/2010 1630

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77163      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77210      Lab File ID: 08301045.D  
Dilution: 1.0      Initial Weight/Volume: 5.15 g  
Date Analyzed: 08/31/2010 0720      Final Weight/Volume: 10 mL  
Date Prepared: 08/30/2010 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	114		60 - 140
Toluene-d8 (Surr)	96		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-5**

Lab Sample ID: 720-30184-1

Date Sampled: 08/30/2010 1345

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77187	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.47 g
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1253		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1853		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		23		2.0
Motor Oil Range Organics [C24-C36]		120		98

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	86		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-15**

Lab Sample ID: 720-30184-3

Date Sampled: 08/30/2010 1440

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.35 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1044		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		35		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	104		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: SB-4-25**

Lab Sample ID: 720-30184-5

Date Sampled: 08/30/2010 1455

Client Matrix: Solid

Date Received: 08/30/2010 1730

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.27 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1105		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		11		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	109		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID:** NW-2-5

Lab Sample ID: 720-30184-6

Client Matrix: Solid

Date Sampled: 08/30/2010 1525

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.16 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1127		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		11		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	113		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-15**

Lab Sample ID: 720-30184-8

Date Sampled: 08/30/2010 1534

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.49 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1149		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		88		0.98
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	109		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-20**

Lab Sample ID: 720-30184-9

Date Sampled: 08/30/2010 1537

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.38 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1211		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		4.9		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	112		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-2-W**

Lab Sample ID: 720-30184-10

Date Sampled: 08/30/2010 1555

Client Matrix: Water

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3510C	Prep Batch: 720-77157	Initial Weight/Volume:	920 mL
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1057		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1751		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	2200		110
Motor Oil Range Organics [C24-C36]	ND		650

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	97		23 - 156

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-5**

Lab Sample ID: 720-30184-11

Date Sampled: 08/30/2010 1611

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.38 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1233		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		5.9		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	94		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-15**

Lab Sample ID: 720-30184-13

Date Sampled: 08/30/2010 1620

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.46 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1255		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		13		0.98
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	108		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Client Sample ID: NW-1-25**

Lab Sample ID: 720-30184-15

Date Sampled: 08/30/2010 1630

Client Matrix: Solid

Date Received: 08/30/2010 1730

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77179	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77156	Initial Weight/Volume:	30.34 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 1317		Injection Volume:	1 uL
Date Prepared:	08/30/2010 1854		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.0		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	112		31 - 114

## DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77163</b>					
LCS 720-77210/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77210
LCS 720-77210/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77210
LCSD 720-77210/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77210
LCSD 720-77210/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77210
MB 720-77210/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77210
720-30184-1	SB-4-5	T	Solid	8260B/CA_LUFT	720-77210
720-30184-1MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77210
720-30184-1MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77210
720-30184-2	SB-4-10	T	Solid	8260B/CA_LUFT	720-77210
720-30184-3	SB-4-15	T	Solid	8260B/CA_LUFT	720-77210
720-30184-4	SB-4-20	T	Solid	8260B/CA_LUFT	720-77210
720-30184-5	SB-4-25	T	Solid	8260B/CA_LUFT	720-77210
720-30184-6	NW-2-5	T	Solid	8260B/CA_LUFT	720-77210
720-30184-7	NW-2-10	T	Solid	8260B/CA_LUFT	720-77210
720-30184-8	NW-2-15	T	Solid	8260B/CA_LUFT	720-77210
720-30184-9	NW-2-20	T	Solid	8260B/CA_LUFT	720-77210
720-30184-11	NW-1-5	T	Solid	8260B/CA_LUFT	720-77210
720-30184-12	NW-1-10	T	Solid	8260B/CA_LUFT	720-77210
720-30184-13	NW-1-15	T	Solid	8260B/CA_LUFT	720-77210
720-30184-14	NW-1-20	T	Solid	8260B/CA_LUFT	720-77210
720-30184-15	NW-1-25	T	Solid	8260B/CA_LUFT	720-77210
<b>Analysis Batch:720-77184</b>					
LCS 720-77184/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77184/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77184/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77184/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77184/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30184-10	NW-2-W	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-77186</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCS 720-77227/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCSD 720-77227/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77227
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77227
MB 720-77227/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77227
720-30184-8	NW-2-15	T	Solid	8260B/CA_LUFT	720-77227
720-30184-13	NW-1-15	T	Solid	8260B/CA_LUFT	720-77227



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77210</b>					
LCS 720-77210/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77210/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77210/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77210/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77210/1-A	Method Blank	T	Solid	5030B	
720-30184-1	SB-4-5	T	Solid	5030B	
720-30184-1MS	Matrix Spike	T	Solid	5030B	
720-30184-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-30184-2	SB-4-10	T	Solid	5030B	
720-30184-3	SB-4-15	T	Solid	5030B	
720-30184-4	SB-4-20	T	Solid	5030B	
720-30184-5	SB-4-25	T	Solid	5030B	
720-30184-6	NW-2-5	T	Solid	5030B	
720-30184-7	NW-2-10	T	Solid	5030B	
720-30184-8	NW-2-15	T	Solid	5030B	
720-30184-9	NW-2-20	T	Solid	5030B	
720-30184-11	NW-1-5	T	Solid	5030B	
720-30184-12	NW-1-10	T	Solid	5030B	
720-30184-13	NW-1-15	T	Solid	5030B	
720-30184-14	NW-1-20	T	Solid	5030B	
720-30184-15	NW-1-25	T	Solid	5030B	
<b>Prep Batch: 720-77227</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77227/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77227/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77227/1-A	Method Blank	T	Solid	5030B	
720-30184-8	NW-2-15	T	Solid	5030B	
720-30184-13	NW-1-15	T	Solid	5030B	

#### Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-77156</b>					
LCS 720-77156/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77156/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77156/1-A	Method Blank	T	Solid	3550B	
720-30184-1	SB-4-5	T	Solid	3550B	
720-30184-3	SB-4-15	T	Solid	3550B	
720-30184-5	SB-4-25	T	Solid	3550B	
720-30184-6	NW-2-5	T	Solid	3550B	
720-30184-8	NW-2-15	T	Solid	3550B	
720-30184-9	NW-2-20	T	Solid	3550B	
720-30184-11	NW-1-5	T	Solid	3550B	
720-30184-13	NW-1-15	T	Solid	3550B	
720-30184-15	NW-1-25	T	Solid	3550B	
720-30184-15MS	Matrix Spike	T	Solid	3550B	
720-30184-15MSD	Matrix Spike Duplicate	T	Solid	3550B	
<b>Prep Batch: 720-77157</b>					
LCS 720-77157/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-77157/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-77157/1-A	Method Blank	T	Water	3510C	
720-30184-10	NW-2-W	T	Water	3510C	
<b>Analysis Batch:720-77179</b>					
LCS 720-77156/2-A	Lab Control Sample	T	Solid	8015B	720-77156
LCSD 720-77156/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77156
MB 720-77156/1-A	Method Blank	T	Solid	8015B	720-77156
720-30184-3	SB-4-15	T	Solid	8015B	720-77156
720-30184-5	SB-4-25	T	Solid	8015B	720-77156
720-30184-6	NW-2-5	T	Solid	8015B	720-77156
720-30184-8	NW-2-15	T	Solid	8015B	720-77156
720-30184-9	NW-2-20	T	Solid	8015B	720-77156
720-30184-11	NW-1-5	T	Solid	8015B	720-77156
720-30184-13	NW-1-15	T	Solid	8015B	720-77156
720-30184-15	NW-1-25	T	Solid	8015B	720-77156
720-30184-15MS	Matrix Spike	T	Solid	8015B	720-77156
720-30184-15MSD	Matrix Spike Duplicate	T	Solid	8015B	720-77156
<b>Analysis Batch:720-77187</b>					
720-30184-1	SB-4-5	T	Solid	8015B	720-77156
<b>Analysis Batch:720-77188</b>					
LCS 720-77157/2-A	Lab Control Sample	T	Water	8015B	720-77157
LCSD 720-77157/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-77157
MB 720-77157/1-A	Method Blank	T	Water	8015B	720-77157
720-30184-10	NW-2-W	T	Water	8015B	720-77157

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

### QC Association Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Report Basis</u>	<u>Client Matrix</u>	<u>Method</u>	<u>Prep Batch</u>
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Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Method Blank - Batch: 720-77184**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77184/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 0955  
 Date Prepared: 08/31/2010 0955

Analysis Batch: 720-77184  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: HP5  
 Lab File ID: 083110004.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Ethylbenzene	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	97	67 - 130	
1,2-Dichloroethane-d4 (Surr)	101	67 - 130	
Toluene-d8 (Surr)	97	70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77184**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77184/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1045  
Date Prepared: 08/31/2010 1045

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110005.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77184/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1117  
Date Prepared: 08/31/2010 1117

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110006.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	112	113	62 - 130	0	20		
Benzene	101	102	82 - 127	0	20		
Ethylene Dibromide	111	110	70 - 130	1	20		
1,2-Dichloroethane	102	101	70 - 126	0	20		
Toluene	105	105	83 - 129	0	20		
m-Xylene & p-Xylene	111	110	70 - 142	0	20		
o-Xylene	111	110	89 - 136	1	20		
TBA	97	95	82 - 116	2	20		
DIPE	106	107	74 - 155	0	20		
TAME	113	114	79 - 129	0	20		
Ethyl t-butyl ether	108	108	70 - 130	0	20		
Ethylbenzene	110	110	86 - 135	0	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	107		106	67 - 130			
1,2-Dichloroethane-d4 (Surr)	100		100	67 - 130			
Toluene-d8 (Surr)	101		100	70 - 130			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77184**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77184/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1150  
Date Prepared: 08/31/2010 1150

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110007.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77184/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1223  
Date Prepared: 08/31/2010 1223

Analysis Batch: 720-77184  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP5  
Lab File ID: 083110008.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	97	103	59 - 111	6	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	105		105			67 - 130	
1,2-Dichloroethane-d4 (Surr)	99		99			67 - 130	
Toluene-d8 (Surr)	100		100			70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

### Method Blank - Batch: 720-77210

Lab Sample ID: MB 720-77210/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2251  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210  
Units: ug/Kg

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: HP12  
Lab File ID: 08301028.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0
Ethylbenzene	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	52 - 140
1,2-Dichloroethane-d4 (Surr)	112	60 - 140
Toluene-d8 (Surr)	98	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77210**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77210/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2052  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301024.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77210/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2122  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301025.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	115	120	71 - 144	4	20		
Benzene	97	98	82 - 124	1	20		
Ethylene Dibromide	116	121	79 - 140	5	20		
1,2-Dichloroethane	112	116	78 - 140	3	20		
Toluene	98	98	83 - 128	0	20		
m-Xylene & p-Xylene	100	101	79 - 146	1	20		
o-Xylene	103	104	84 - 140	1	20		
TBA	96	95	76 - 119	1	20		
DIPE	103	106	83 - 131	2	20		
TAME	122	128	74 - 140	4	20		
Ethyl t-butyl ether	112	115	76 - 129	3	20		
Ethylbenzene	103	104	80 - 137	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	103		104		52 - 140		
1,2-Dichloroethane-d4 (Surr)	112		113		60 - 140		
Toluene-d8 (Surr)	101		100		58 - 140		



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77210**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77210/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2152  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301026.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77210/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/30/2010 2221  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08301027.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	92	92	61 - 128	0	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	104		103	52 - 140			
1,2-Dichloroethane-d4 (Surr)	113		115	60 - 140			
Toluene-d8 (Surr)	100		100	58 - 140			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77210**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30184-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 0051  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210

Instrument ID: HP12  
Lab File ID: 08301032.D  
Initial Weight/Volume: 5.23 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30184-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 0121  
Date Prepared: 08/30/2010 1800

Analysis Batch: 720-77163  
Prep Batch: 720-77210

Instrument ID: HP12  
Lab File ID: 08301033.D  
Initial Weight/Volume: 5.13 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	100	100	70 - 130	2	20		
Toluene	103	102	70 - 130	1	20		
m-Xylene & p-Xylene	99	99	70 - 130	1	20		
o-Xylene	104	103	68 - 130	1	20		
Ethylbenzene	104	103	65 - 130	1	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	97		97		52 - 140		
1,2-Dichloroethane-d4 (Surr)	112		110		60 - 140		
Toluene-d8 (Surr)	100		98		58 - 140		

# Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

## Method Blank - Batch: 720-77227

Lab Sample ID: MB 720-77227/1-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1000  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

## Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: HP9  
Lab File ID: 08311004.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		25000
Ethylbenzene	ND		500
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	98	66 - 148	
1,2-Dichloroethane-d4 (Surr)	95	62 - 137	
Toluene-d8 (Surr)	97	65 - 141	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77227/4-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1137  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311007.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77227/5-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1209  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311008.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	84	80	70 - 130	5	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	100		99	66 - 148			
1,2-Dichloroethane-d4 (Surr)	96		94	62 - 137			
Toluene-d8 (Surr)	99		98	65 - 141			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77227/2-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1242  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311009.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77227/3-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1104  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311006.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	96	99	76 - 137	3	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	97		95			66 - 148	
1,2-Dichloroethane-d4 (Surr)	91		90			62 - 137	
Toluene-d8 (Surr)	98		98			65 - 141	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Method Blank - Batch: 720-77156**

**Method: 8015B  
Preparation: 3550B**

Lab Sample ID: MB 720-77156/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1022  
Date Prepared: 08/30/2010 1853

Analysis Batch: 720-77179  
Prep Batch: 720-77156  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000010.D  
Initial Weight/Volume: 30.12 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	111	31 - 114

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77156**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77156/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 0938  
Date Prepared: 08/30/2010 1853

Analysis Batch: 720-77179  
Prep Batch: 720-77156  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000008.D  
Initial Weight/Volume: 30.26 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77156/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1000  
Date Prepared: 08/30/2010 1853

Analysis Batch: 720-77179  
Prep Batch: 720-77156  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000009.D  
Initial Weight/Volume: 30.36 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	113	110	59 - 134	3	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	114	108	31 - 114

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77156**

**Method: 8015B  
Preparation: 3550B**

MS Lab Sample ID: 720-30184-15  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1339  
Date Prepared: 08/30/2010 1854

Analysis Batch: 720-77179  
Prep Batch: 720-77156

Instrument ID: CHDRO6  
Lab File ID: FID1000019.D  
Initial Weight/Volume: 30.05 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 720-30184-15  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1400  
Date Prepared: 08/30/2010 1854

Analysis Batch: 720-77179  
Prep Batch: 720-77156

Instrument ID: CHDRO6  
Lab File ID: FID1000020.D  
Initial Weight/Volume: 30.39 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	108	112	50 - 130	3	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		106	104			31 - 114	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Method Blank - Batch: 720-77157**

**Method: 8015B**  
**Preparation: 3510C**

Lab Sample ID: MB 720-77157/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1207  
Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
Prep Batch: 720-77157  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0831105b\_014.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300
<hr/>			
Surrogate	% Rec	Acceptance Limits	
p-Terphenyl	110	23 - 156	

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77157**

**Method: 8015B**  
**Preparation: 3510C**

LCS Lab Sample ID: LCS 720-77157/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1120  
Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
Prep Batch: 720-77157  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0831105b\_012.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77157/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1144  
Date Prepared: 08/30/2010 1751

Analysis Batch: 720-77188  
Prep Batch: 720-77157  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0831105b\_013.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	75	71	40 - 150	5	35		
<hr/>							
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
p-Terphenyl	110	108	23 - 156				



**720-30184**

Analysis Request

Report To  
 Attn: Xinggang TONG  
 Company: OTG EnviroEngineering Solutions, Inc  
 Address: 7700 Edgewater Dr., Suite 260  
 Phone: 510/465-8982 Email: xtong@otgenv.com  
 Bill To: OTG Sampled By: X Tong  
 Attn: X. Tong Phone: 510-612-0857

TPH EPA-A  8260B  Gas w/  BTEX  MTBE  
 TEPH EPA 8015M\*  Silica Gel  
 Diesel  Motor Oil  Other  
 EPA 8260B:  Gas  BTEX  
 5 Oxygenates  PCA, EDB  Ethanol  
 (HVOCs)/EPA 8021 by 8260B  
 Volatile Organics GC/MS (VOCs)  
 EPA 8260B  624  
 Semivolatiles GC/MS  
 EPA 8270  625  
 Oil and Grease  Petroleum  
 (EPA 1664)  Total  
 Pesticides  EPA 8081  608  
 PCBs  EPA 8082  608  
 PNAs by  8270  8310  
 CAM17 Metals  
 (EPA 6010/7470/7471)  
 Metals:  Lead  LUFT  RCRA  
 Other:  
 Low Level Metals by EPA 200.8/6020  
 (ICP-MS):  
 W.E.T (STLC)  
 TCLP  
 Hexavalent Chromium  
 pH (24h hold time for H<sub>2</sub>O)  
 Spec. Cond.  Alkalinity  
 TSS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>

Sample ID	Date	Time	Mat	Preserv	TPH EPA-A	TEPH EPA	EPA 8260B	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17 Metals	Metals	Low Level Metals	W.E.T	TCLP	Hexavalent Chromium	pH	Spec. Cond.	TSS	Anions	Number of Containers
SB-4-5	8/30/10	1:45P	S		X	X																	
SB-4-10		2:30pm	S		X																		
SB-4-15		2:40pm	S			X	X																
SB-4-20		2:48pm	S		X																		
SB-4-25		2:55pm	S			X	X																
NW-2-5		3:25	S			X	X																
NW-2-10		3:30pm	S		X																		
NW-2-15		3:34pm	S			X	X																
NW-2-20		3:37pm	S			X	X																
NW-2-W		3:55pm	W			X	X																

Project Info  
 Project Name: B112-Oakland  
 Project#: 10HCT02.2000  
 PO#: \_\_\_\_\_  
 Credit Card#: \_\_\_\_\_

Sample Receipt  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: 60  
 Conforms to record: \_\_\_\_\_

1) Relinquished by:  
X Tong 4:30 pm  
 Signature Time  
Xinggang Tong 8/30/10  
 Printed Name Date  
OTG  
 Company

2) Relinquished by:  
[Signature] 5:30 P  
 Signature Time  
Carlos 8/30/10  
 Printed Name Date  
 \_\_\_\_\_  
 Company

3) Relinquished by:  
 \_\_\_\_\_  
 Signature Time  
 \_\_\_\_\_  
 Printed Name Date  
 \_\_\_\_\_  
 Company

T A T  
 5 Day 3 Day 2 Day 1 Day  
 Report:  Routine  Level 3  Level 4  EDD  State Tank  
 Fund EDF  
 Special Instructions / Comments:  Global ID SLT19761201  
Require EDF LogCode: OTGO  
Harry Sidhu Quote on 6/4/10 for OTG Oakland site  
 See Terms and Conditions on reverse  
 \*TestAmerica SF reports 8015M from C<sub>9</sub>-C<sub>24</sub> (Industry norm). Default for 8015B is C<sub>10</sub>-C<sub>28</sub>

1) Received by:  
Carlos 4:30 P  
 Signature Time  
Carlos 8/30/10  
 Printed Name Date  
 \_\_\_\_\_  
 Company

2) Received by:  
Joan Mullen 1730  
 Signature Time  
Mullen 8-30-10  
 Printed Name Date  
Test America  
 Company

3) Received by:  
 \_\_\_\_\_  
 Signature Time  
 \_\_\_\_\_  
 Printed Name Date  
 \_\_\_\_\_  
 Company



## Login Sample Receipt Check List

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30184-1

**Login Number: 30184**

**Creator: Mullen, Joan**

**List Number: 1**

**List Source: TestAmerica San Francisco**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## ANALYTICAL REPORT

Job Number: 720-30200-1

Job Description: B112-Oakland

For:

OTG EnviroEngineering Solutions, Inc.

7700 Edgewater Drive

Suite 260

Oakland, CA 94621

Attention: Mr. Xinggang Tong



Approved for release.  
Afsaneh Salimpour  
Project Manager I  
9/1/2010 5:44 PM

---

Afsaneh Salimpour  
Project Manager I  
afsaneh.salimpour@testamericainc.com  
09/01/2010

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-30200-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: Surrogate recovery for the following sample 30200-18 was outside control limits: ASB-10-15 (720-30200-18). Evidence of matrix interference is present; therefore, re-analysis was not performed.

No other analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30200-1</b>	<b>SB-5-8</b>				
Diesel Range Organics [C10-C28]		32	3.0	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		230	150	mg/Kg	8015B
<b>720-30200-2</b>	<b>SB-5-13</b>				
Gasoline Range Organics (GRO)-C5-C12		140000	25000	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		130	2.0	mg/Kg	8015B
<b>720-30200-3</b>	<b>SB-5-15</b>				
Diesel Range Organics [C10-C28]		1.0	1.0	mg/Kg	8015B
<b>720-30200-4</b>	<b>SB-5-20</b>				
Diesel Range Organics [C10-C28]		2.1	0.99	mg/Kg	8015B
<b>720-30200-6</b>	<b>NW-7-5</b>				
Diesel Range Organics [C10-C28]		5.8	0.98	mg/Kg	8015B
<b>720-30200-7</b>	<b>NW-7-10</b>				
Diesel Range Organics [C10-C28]		6.0	1.0	mg/Kg	8015B
<b>720-30200-8</b>	<b>NW-7-15</b>				
Gasoline Range Organics (GRO)-C5-C12		860000	120000	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		110	2.0	mg/Kg	8015B
<b>720-30200-10</b>	<b>NW-7-W</b>				
Gasoline Range Organics (GRO)-C5-C12		11000	500	ug/L	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		9100	260	ug/L	8015B
<b>720-30200-11</b>	<b>NW-5-5</b>				
Diesel Range Organics [C10-C28]		2.6	0.99	mg/Kg	8015B
<b>720-30200-12</b>	<b>NW-5-10</b>				
Diesel Range Organics [C10-C28]		1.0	0.99	mg/Kg	8015B

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30200-13</b> Diesel Range Organics [C10-C28]	<b>NW-5-15</b>	2.2	0.99	mg/Kg	8015B
<b>720-30200-14</b> Diesel Range Organics [C10-C28]	<b>NW-5-20</b>	3.1	1.0	mg/Kg	8015B
<b>720-30200-15</b> Diesel Range Organics [C10-C28]	<b>NW-5-25</b>	2.0	1.0	mg/Kg	8015B
<b>720-30200-16</b> Diesel Range Organics [C10-C28]	<b>ASB-10-5</b>	1.9	1.0	mg/Kg	8015B
<b>720-30200-17</b> Diesel Range Organics [C10-C28]	<b>ASB-10-10</b>	1.5	0.99	mg/Kg	8015B
<b>720-30200-18</b> Gasoline Range Organics (GRO)-C5-C12 Diesel Range Organics [C10-C28]	<b>ASB-10-15</b>	47000 6.1	24000 0.99	ug/Kg mg/Kg	8260B/CA_LUFTMS 8015B

## METHOD SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
<b>Matrix: Water</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

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



## METHOD / ANALYST SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B/CA_LUFTMS	Chen, Amy	AC
SW846 8260B/CA_LUFTMS	Le, Lien	LL
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

## SAMPLE SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-30200-1	SB-5-8	Solid	08/31/2010 0840	08/31/2010 1510
720-30200-2	SB-5-13	Solid	08/31/2010 0846	08/31/2010 1510
720-30200-3	SB-5-15	Solid	08/31/2010 0851	08/31/2010 1510
720-30200-4	SB-5-20	Solid	08/31/2010 0858	08/31/2010 1510
720-30200-5	SB-5-25	Solid	08/31/2010 0903	08/31/2010 1510
720-30200-6	NW-7-5	Solid	08/31/2010 1000	08/31/2010 1510
720-30200-7	NW-7-10	Solid	08/31/2010 1010	08/31/2010 1510
720-30200-8	NW-7-15	Solid	08/31/2010 1015	08/31/2010 1510
720-30200-9	NW-7-20	Solid	08/31/2010 1020	08/31/2010 1510
720-30200-10	NW-7-W	Water	08/31/2010 1030	08/31/2010 1510
720-30200-11	NW-5-5	Solid	08/31/2010 1045	08/31/2010 1510
720-30200-12	NW-5-10	Solid	08/31/2010 1048	08/31/2010 1510
720-30200-13	NW-5-15	Solid	08/31/2010 1052	08/31/2010 1510
720-30200-14	NW-5-20	Solid	08/31/2010 1058	08/31/2010 1510
720-30200-15	NW-5-25	Solid	08/31/2010 1103	08/31/2010 1510
720-30200-16	ASB-10-5	Solid	08/31/2010 1305	08/31/2010 1510
720-30200-17	ASB-10-10	Solid	08/31/2010 1312	08/31/2010 1510
720-30200-18	ASB-10-15	Solid	08/31/2010 1216	08/31/2010 1510
720-30200-19	ASB-10-20	Solid	08/31/2010 1320	08/31/2010 1510

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-8**

Lab Sample ID: 720-30200-1

Date Sampled: 08/31/2010 0840

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77181	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77269	Lab File ID:	08301017.D
Dilution:	1.0		Initial Weight/Volume:	5.19 g
Date Analyzed:	08/31/2010 1618		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1600			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-13**

Lab Sample ID: 720-30200-2

Date Sampled: 08/31/2010 0846

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77267      Instrument ID: HP9  
Preparation: 5030B      Prep Batch: 720-77227      Lab File ID: 09011010.D  
Dilution: 100      Initial Weight/Volume: 10.07 g  
Date Analyzed: 09/01/2010 1308      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		500
Benzene		ND		500
Ethylene Dibromide		ND		500
1,2-Dichloroethane		ND		500
Ethylbenzene		ND		500
Toluene		ND		500
Xylenes, Total		ND		990
Gasoline Range Organics (GRO)-C5-C12		140000		25000
TBA		ND		990
DIPE		ND		500
TAME		ND		500
Ethyl t-butyl ether		ND		500

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		66 - 148
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
Toluene-d8 (Surr)	98		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-15**

Lab Sample ID: 720-30200-3

Date Sampled: 08/31/2010 0851

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77181	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77269	Lab File ID:	08301018.D
Dilution:	1.0		Initial Weight/Volume:	5.41 g
Date Analyzed:	08/31/2010 1649		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1600			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.6
Benzene		ND		4.6
Ethylene Dibromide		ND		4.6
1,2-Dichloroethane		ND		4.6
Ethylbenzene		ND		4.6
Toluene		ND		4.6
Xylenes, Total		ND		9.2
Gasoline Range Organics (GRO)-C5-C12		ND		230
TBA		ND		9.2
DIPE		ND		4.6
TAME		ND		4.6
Ethyl t-butyl ether		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	90		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-20**

Lab Sample ID: 720-30200-4

Date Sampled: 08/31/2010 0858

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77181      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77269      Lab File ID: 08301019.D  
Dilution: 1.0      Initial Weight/Volume: 5.26 g  
Date Analyzed: 08/31/2010 1720      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1600

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.5
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.5
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-25**

Lab Sample ID: 720-30200-5

Date Sampled: 08/31/2010 0903

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77181	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77269	Lab File ID:	08301020.D
Dilution:	1.0		Initial Weight/Volume:	5.39 g
Date Analyzed:	08/31/2010 1751		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1600			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.6
Ethylbenzene		ND		4.6
Toluene		ND		4.6
Xylenes, Total		ND		9.3
Gasoline Range Organics (GRO)-C5-C12		ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-5**

Lab Sample ID: 720-30200-6

Date Sampled: 08/31/2010 1000

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77181	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77269	Lab File ID:	08301021.D
Dilution:	1.0		Initial Weight/Volume:	5 g
Date Analyzed:	08/31/2010 1821		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1600			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		52 - 140
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	91		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-10**

Lab Sample ID: 720-30200-7

Date Sampled: 08/31/2010 1010

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301030.D
Dilution:	1.0		Initial Weight/Volume:	5.04 g
Date Analyzed:	08/31/2010 2248		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-15**

Lab Sample ID: 720-30200-8

Date Sampled: 08/31/2010 1015

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77267	Instrument ID:	HP9
Preparation:	5030B	Prep Batch: 720-77227	Lab File ID:	09011011.D
Dilution:	500		Initial Weight/Volume:	10.08 g
Date Analyzed:	09/01/2010 1340		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		2500
Benzene		ND		2500
Ethylene Dibromide		ND		2500
1,2-Dichloroethane		ND		2500
Ethylbenzene		ND		2500
Toluene		ND		2500
Xylenes, Total		ND		5000
Gasoline Range Organics (GRO)-C5-C12		860000		120000
TBA		ND		5000
DIPE		ND		2500
TAME		ND		2500
Ethyl t-butyl ether		ND		2500

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		66 - 148
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
Toluene-d8 (Surr)	98		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-20**

Lab Sample ID: 720-30200-9

Date Sampled: 08/31/2010 1020

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301031.D
Dilution:	1.0		Initial Weight/Volume:	5.21 g
Date Analyzed:	08/31/2010 2319		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	94		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-W**

Lab Sample ID: 720-30200-10

Client Matrix: Water

Date Sampled: 08/31/2010 1030

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77183      Instrument ID: HP4  
Preparation: 5030B      Lab File ID: 083110020.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 08/31/2010 1858      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1858

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	11000		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	117		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130
Toluene-d8 (Surr)	103		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-5**

Lab Sample ID: 720-30200-11

Date Sampled: 08/31/2010 1045

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301034.D
Dilution:	1.0		Initial Weight/Volume:	5.06 g
Date Analyzed:	09/01/2010 0052		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	80		52 - 140
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	90		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-10**

Lab Sample ID: 720-30200-12

Date Sampled: 08/31/2010 1048

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301035.D
Dilution:	1.0		Initial Weight/Volume:	5.08 g
Date Analyzed:	09/01/2010 0123		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		52 - 140
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	90		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-15**

Lab Sample ID: 720-30200-13

Date Sampled: 08/31/2010 1052

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77242      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77273      Lab File ID: 08301036.D  
Dilution: 1.0      Initial Weight/Volume: 5.09 g  
Date Analyzed: 09/01/2010 0154      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-20**

Lab Sample ID: 720-30200-14

Date Sampled: 08/31/2010 1058

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77242      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77273      Lab File ID: 08301037.D  
Dilution: 1.0      Initial Weight/Volume: 5.16 g  
Date Analyzed: 09/01/2010 0225      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	91		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-25**

Lab Sample ID: 720-30200-15

Date Sampled: 08/31/2010 1103

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77242      Instrument ID: CHMSV2  
Preparation: 5030B      Prep Batch: 720-77273      Lab File ID: 08301038.D  
Dilution: 1.0      Initial Weight/Volume: 5.08 g  
Date Analyzed: 09/01/2010 0256      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-5**

Lab Sample ID: 720-30200-16

Date Sampled: 08/31/2010 1305

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301039.D
Dilution:	1.0		Initial Weight/Volume:	5.21 g
Date Analyzed:	09/01/2010 0327		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		52 - 140
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-10**

Lab Sample ID: 720-30200-17

Date Sampled: 08/31/2010 1312

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301040.D
Dilution:	1.0		Initial Weight/Volume:	5.15 g
Date Analyzed:	09/01/2010 0358		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		52 - 140
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-15**

Lab Sample ID: 720-30200-18

Date Sampled: 08/31/2010 1216

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301041.D
Dilution:	1.0		Initial Weight/Volume:	5.02 g
Date Analyzed:	09/01/2010 0430		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
TBA		ND		10
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	160	X	52 - 140
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-15**

Lab Sample ID: 720-30200-18

Date Sampled: 08/31/2010 1216

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77267	Instrument ID:	HP9
Preparation:	5030B	Prep Batch: 720-77309	Lab File ID:	09011012.D
Dilution:	100		Initial Weight/Volume:	10.33 g
Date Analyzed:	09/01/2010 1412		Final Weight/Volume:	10 mL
Date Prepared:	09/01/2010 0900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		47000		24000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	105		66 - 148
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
Toluene-d8 (Surr)	97		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-20**

Lab Sample ID: 720-30200-19

Date Sampled: 08/31/2010 1320

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77242	Instrument ID:	CHMSV2
Preparation:	5030B	Prep Batch: 720-77273	Lab File ID:	08301042.D
Dilution:	1.0		Initial Weight/Volume:	5.16 g
Date Analyzed:	09/01/2010 0501		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	94		58 - 140

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-8**

Lab Sample ID: 720-30200-1

Date Sampled: 08/31/2010 0840

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77260	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.21 g
Dilution:	3.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1420		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		32		3.0
Motor Oil Range Organics [C24-C36]		230		150

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	103		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-13**

Lab Sample ID: 720-30200-2

Date Sampled: 08/31/2010 0846

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.23 g
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1225		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		130		2.0
Motor Oil Range Organics [C24-C36]		ND		99

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	95		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-15**

Lab Sample ID: 720-30200-3

Date Sampled: 08/31/2010 0851

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.04 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	08/31/2010 2344		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.0		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	109		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: SB-5-20**

Lab Sample ID: 720-30200-4

Date Sampled: 08/31/2010 0858

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.39 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0007		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.1		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	110		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-5**

Lab Sample ID: 720-30200-6

Date Sampled: 08/31/2010 1000

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.46 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1247		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		5.8		0.98
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	83		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-10**

Lab Sample ID: 720-30200-7

Date Sampled: 08/31/2010 1010

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.10 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1142		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		6.0		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	100		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-15**

Lab Sample ID: 720-30200-8

Date Sampled: 08/31/2010 1015

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.08 g
Dilution:	2.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1058		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		110		2.0
Motor Oil Range Organics [C24-C36]		ND		100

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	98		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-7-W**

Lab Sample ID: 720-30200-10

Date Sampled: 08/31/2010 1030

Client Matrix: Water

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77260	Instrument ID:	CHDRO6
Preparation:	3510C	Prep Batch: 720-77220	Initial Weight/Volume:	960 mL
Dilution:	5.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1014		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1838		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	9100		260
Motor Oil Range Organics [C24-C36]	ND		1500

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	105		23 - 156

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-5**

Lab Sample ID: 720-30200-11

Date Sampled: 08/31/2010 1045

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.41 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1120		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.6		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	103		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-10**

Lab Sample ID: 720-30200-12

Date Sampled: 08/31/2010 1048

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.40 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0031		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.0		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	105		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-15**

Lab Sample ID: 720-30200-13

Date Sampled: 08/31/2010 1052

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.30 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0054		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.2		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	114		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-20**

Lab Sample ID: 720-30200-14

Date Sampled: 08/31/2010 1058

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.10 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0117		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		3.1		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	109		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: NW-5-25**

Lab Sample ID: 720-30200-15

Date Sampled: 08/31/2010 1103

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.04 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0141		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.0		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	111		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-5**

Lab Sample ID: 720-30200-16

Date Sampled: 08/31/2010 1305

Client Matrix: Solid

Date Received: 08/31/2010 1510

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77261	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.14 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 1203		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.9		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	113		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-10**

Lab Sample ID: 720-30200-17

Date Sampled: 08/31/2010 1312

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.44 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0204		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.5		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	106		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Client Sample ID: ASB-10-15**

Lab Sample ID: 720-30200-18

Date Sampled: 08/31/2010 1216

Client Matrix: Solid

Date Received: 08/31/2010 1510

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77188	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77231	Initial Weight/Volume:	30.17 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/01/2010 0228		Injection Volume:	1 uL
Date Prepared:	08/31/2010 1612		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		6.1		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	109		31 - 114

## DATA REPORTING QUALIFIERS

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	X	Surrogate is outside control limits

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77181</b>					
LCS 720-77269/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77269
LCS 720-77269/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77269
LCSD 720-77269/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77269
LCSD 720-77269/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77269
MB 720-77269/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77269
720-30200-1	SB-5-8	T	Solid	8260B/CA_LUFT	720-77269
720-30200-3	SB-5-15	T	Solid	8260B/CA_LUFT	720-77269
720-30200-4	SB-5-20	T	Solid	8260B/CA_LUFT	720-77269
720-30200-5	SB-5-25	T	Solid	8260B/CA_LUFT	720-77269
720-30200-6	NW-7-5	T	Solid	8260B/CA_LUFT	720-77269
<b>Analysis Batch:720-77183</b>					
LCS 720-77183/6	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77183/8	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77183/7	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77183/9	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77183/5	Method Blank	T	Water	8260B/CA_LUFT	
720-30200-10	NW-7-W	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-77186</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCS 720-77227/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77227
LCSD 720-77227/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77227
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77227
MB 720-77227/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77227
<b>Prep Batch: 720-77227</b>					
LCS 720-77227/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77227/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77227/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77227/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77227/1-A	Method Blank	T	Solid	5030B	
720-30200-2	SB-5-13	T	Solid	5030B	
720-30200-8	NW-7-15	T	Solid	5030B	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77242</b>					
LCS 720-77273/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77273
LCS 720-77273/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77273
LCSD 720-77273/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77273
LCSD 720-77273/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77273
MB 720-77273/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77273
720-30200-7	NW-7-10	T	Solid	8260B/CA_LUFT	720-77273
720-30200-9	NW-7-20	T	Solid	8260B/CA_LUFT	720-77273
720-30200-9MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77273
720-30200-9MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77273
720-30200-11	NW-5-5	T	Solid	8260B/CA_LUFT	720-77273
720-30200-12	NW-5-10	T	Solid	8260B/CA_LUFT	720-77273
720-30200-13	NW-5-15	T	Solid	8260B/CA_LUFT	720-77273
720-30200-14	NW-5-20	T	Solid	8260B/CA_LUFT	720-77273
720-30200-15	NW-5-25	T	Solid	8260B/CA_LUFT	720-77273
720-30200-16	ASB-10-5	T	Solid	8260B/CA_LUFT	720-77273
720-30200-17	ASB-10-10	T	Solid	8260B/CA_LUFT	720-77273
720-30200-18	ASB-10-15	T	Solid	8260B/CA_LUFT	720-77273
720-30200-19	ASB-10-20	T	Solid	8260B/CA_LUFT	720-77273
<b>Analysis Batch:720-77267</b>					
LCS 720-77309/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77309
LCSD 720-77309/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77309
MB 720-77309/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77309
720-30200-2	SB-5-13	T	Solid	8260B/CA_LUFT	720-77227
720-30200-8	NW-7-15	T	Solid	8260B/CA_LUFT	720-77227
720-30200-18	ASB-10-15	T	Solid	8260B/CA_LUFT	720-77309
<b>Prep Batch: 720-77269</b>					
LCS 720-77269/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77269/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77269/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77269/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77269/1-A	Method Blank	T	Solid	5030B	
720-30200-1	SB-5-8	T	Solid	5030B	
720-30200-3	SB-5-15	T	Solid	5030B	
720-30200-4	SB-5-20	T	Solid	5030B	
720-30200-5	SB-5-25	T	Solid	5030B	
720-30200-6	NW-7-5	T	Solid	5030B	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77273</b>					
LCS 720-77273/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77273/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77273/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77273/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77273/1-A	Method Blank	T	Solid	5030B	
720-30200-7	NW-7-10	T	Solid	5030B	
720-30200-9	NW-7-20	T	Solid	5030B	
720-30200-9MS	Matrix Spike	T	Solid	5030B	
720-30200-9MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-30200-11	NW-5-5	T	Solid	5030B	
720-30200-12	NW-5-10	T	Solid	5030B	
720-30200-13	NW-5-15	T	Solid	5030B	
720-30200-14	NW-5-20	T	Solid	5030B	
720-30200-15	NW-5-25	T	Solid	5030B	
720-30200-16	ASB-10-5	T	Solid	5030B	
720-30200-17	ASB-10-10	T	Solid	5030B	
720-30200-18	ASB-10-15	T	Solid	5030B	
720-30200-19	ASB-10-20	T	Solid	5030B	
<b>Prep Batch: 720-77309</b>					
LCS 720-77309/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77309/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77309/1-A	Method Blank	T	Solid	5030B	
720-30200-18	ASB-10-15	T	Solid	5030B	

#### Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77188</b>					
720-30200-3	SB-5-15	T	Solid	8015B	720-77231
720-30200-4	SB-5-20	T	Solid	8015B	720-77231
720-30200-12	NW-5-10	T	Solid	8015B	720-77231
720-30200-13	NW-5-15	T	Solid	8015B	720-77231
720-30200-14	NW-5-20	T	Solid	8015B	720-77231
720-30200-15	NW-5-25	T	Solid	8015B	720-77231
720-30200-17	ASB-10-10	T	Solid	8015B	720-77231
720-30200-18	ASB-10-15	T	Solid	8015B	720-77231
<b>Prep Batch: 720-77220</b>					
LCS 720-77220/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-77220/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-77220/1-A	Method Blank	T	Water	3510C	
720-30200-10	NW-7-W	T	Water	3510C	
<b>Prep Batch: 720-77231</b>					
LCS 720-77231/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77231/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77231/1-A	Method Blank	T	Solid	3550B	
720-30200-1	SB-5-8	T	Solid	3550B	
720-30200-1MS	Matrix Spike	T	Solid	3550B	
720-30200-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-30200-2	SB-5-13	T	Solid	3550B	
720-30200-3	SB-5-15	T	Solid	3550B	
720-30200-4	SB-5-20	T	Solid	3550B	
720-30200-6	NW-7-5	T	Solid	3550B	
720-30200-7	NW-7-10	T	Solid	3550B	
720-30200-8	NW-7-15	T	Solid	3550B	
720-30200-11	NW-5-5	T	Solid	3550B	
720-30200-12	NW-5-10	T	Solid	3550B	
720-30200-13	NW-5-15	T	Solid	3550B	
720-30200-14	NW-5-20	T	Solid	3550B	
720-30200-15	NW-5-25	T	Solid	3550B	
720-30200-16	ASB-10-5	T	Solid	3550B	
720-30200-17	ASB-10-10	T	Solid	3550B	
720-30200-18	ASB-10-15	T	Solid	3550B	
<b>Analysis Batch:720-77260</b>					
LCS 720-77220/2-A	Lab Control Sample	T	Water	8015B	720-77220
LCSD 720-77220/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-77220
MB 720-77220/1-A	Method Blank	T	Water	8015B	720-77220
720-30200-1	SB-5-8	T	Solid	8015B	720-77231
720-30200-10	NW-7-W	T	Water	8015B	720-77220

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77261</b>					
LCS 720-77231/2-A	Lab Control Sample	T	Solid	8015B	720-77231
LCSD 720-77231/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77231
MB 720-77231/1-A	Method Blank	T	Solid	8015B	720-77231
720-30200-1MS	Matrix Spike	T	Solid	8015B	720-77231
720-30200-1MSD	Matrix Spike Duplicate	T	Solid	8015B	720-77231
720-30200-2	SB-5-13	T	Solid	8015B	720-77231
720-30200-6	NW-7-5	T	Solid	8015B	720-77231
720-30200-7	NW-7-10	T	Solid	8015B	720-77231
720-30200-8	NW-7-15	T	Solid	8015B	720-77231
720-30200-11	NW-5-5	T	Solid	8015B	720-77231
720-30200-16	ASB-10-5	T	Solid	8015B	720-77231

#### Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

### Method Blank - Batch: 720-77183

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Lab Sample ID: MB 720-77183/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 0946  
Date Prepared: 08/31/2010 0946

Analysis Batch: 720-77183  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083110004.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	67 - 130
1,2-Dichloroethane-d4 (Surr)	101	67 - 130
Toluene-d8 (Surr)	99	70 - 130

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77183**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77183/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1042  
Date Prepared: 08/31/2010 1042

Analysis Batch: 720-77183  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083110005.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77183/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1114  
Date Prepared: 08/31/2010 1114

Analysis Batch: 720-77183  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083110006.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	111	110	62 - 130	1	20		
Benzene	97	98	82 - 127	1	20		
Ethylene Dibromide	107	105	70 - 130	2	20		
1,2-Dichloroethane	98	97	70 - 126	1	20		
Ethylbenzene	101	103	86 - 135	2	20		
Toluene	101	102	83 - 129	1	20		
m-Xylene & p-Xylene	98	99	70 - 142	2	20		
o-Xylene	100	102	89 - 136	1	20		
TBA	92	96	82 - 116	4	20		
DIPE	103	103	74 - 155	1	20		
TAME	119	119	79 - 129	0	20		
Ethyl t-butyl ether	106	106	70 - 130	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	99		97		67 - 130		
1,2-Dichloroethane-d4 (Surr)	97		94		67 - 130		
Toluene-d8 (Surr)	100		97		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77183**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77183/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1146  
Date Prepared: 08/31/2010 1146

Analysis Batch: 720-77183  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083110007.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77183/9  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1218  
Date Prepared: 08/31/2010 1218

Analysis Batch: 720-77183  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 083110008.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	69	79	59 - 111	14	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	99		98	67 - 130			
1,2-Dichloroethane-d4 (Surr)	98		97	67 - 130			
Toluene-d8 (Surr)	98		97	70 - 130			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77227/1-A  
 Client Matrix: Solid  
 Dilution: 100  
 Date Analyzed: 08/31/2010 1000  
 Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
 Prep Batch: 720-77227  
 Units: ug/Kg

Instrument ID: HP9  
 Lab File ID: 08311004.D  
 Initial Weight/Volume: 10.00 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		500
Benzene	ND		500
Ethylene Dibromide	ND		500
1,2-Dichloroethane	ND		500
Ethylbenzene	ND		500
Toluene	ND		500
m-Xylene & p-Xylene	ND		500
o-Xylene	ND		500
Xylenes, Total	ND		1000
Gasoline Range Organics (GRO)-C5-C12	ND		25000
TBA	ND		1000
DIPE	ND		500
TAME	ND		500
Ethyl t-butyl ether	ND		500
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	98	66 - 148	
1,2-Dichloroethane-d4 (Surr)	95	62 - 137	
Toluene-d8 (Surr)	97	65 - 141	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77227/4-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1137  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311007.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77227/5-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1209  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311008.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	84	80	70 - 130	5	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	100		99	66 - 148			
1,2-Dichloroethane-d4 (Surr)	96		94	62 - 137			
Toluene-d8 (Surr)	99		98	65 - 141			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77227**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77227/2-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1242  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311009.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77227/3-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 08/31/2010 1104  
Date Prepared: 08/31/2010 0900

Analysis Batch: 720-77186  
Prep Batch: 720-77227  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 08311006.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	93	91	71 - 146	2	20		
Benzene	98	99	76 - 122	1	20		
Ethylene Dibromide	99	96	80 - 138	2	20		
1,2-Dichloroethane	90	91	77 - 133	1	20		
Ethylbenzene	96	99	76 - 137	3	20		
Toluene	100	102	77 - 120	2	20		
m-Xylene & p-Xylene	94	95	71 - 142	1	20		
o-Xylene	95	98	71 - 142	3	20		
TBA	93	93	70 - 130	0	20		
DIPE	94	94	70 - 130	0	20		
TAME	98	95	70 - 130	2	20		
Ethyl t-butyl ether	89	88	70 - 130	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	97		95		66 - 148		
1,2-Dichloroethane-d4 (Surr)	91		90		62 - 137		
Toluene-d8 (Surr)	98		98		65 - 141		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77269**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77269/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 0955  
 Date Prepared: 08/31/2010 0800

Analysis Batch: 720-77181  
 Prep Batch: 720-77269  
 Units: ug/Kg

Instrument ID: CHMSV2  
 Lab File ID: 08301005.D  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	52 - 140
1,2-Dichloroethane-d4 (Surr)	93	60 - 140
Toluene-d8 (Surr)	94	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77269**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77269/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1026  
Date Prepared: 08/31/2010 0800

Analysis Batch: 720-77181  
Prep Batch: 720-77269  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301006.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77269/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1057  
Date Prepared: 08/31/2010 0800

Analysis Batch: 720-77181  
Prep Batch: 720-77269  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301007.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	94	90	71 - 144	4	20		
Benzene	93	92	82 - 124	1	20		
Ethylene Dibromide	99	95	79 - 140	5	20		
1,2-Dichloroethane	91	88	78 - 140	3	20		
Ethylbenzene	96	96	80 - 137	0	20		
Toluene	96	96	83 - 128	0	20		
m-Xylene & p-Xylene	94	93	79 - 146	1	20		
o-Xylene	96	96	84 - 140	1	20		
TBA	93	94	76 - 119	2	20		
DIPE	90	89	83 - 131	2	20		
TAME	97	94	74 - 140	3	20		
Ethyl t-butyl ether	91	88	76 - 129	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	97	96			52 - 140		
1,2-Dichloroethane-d4 (Surr)	92	90			60 - 140		
Toluene-d8 (Surr)	95	94			58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77269**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77269/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1129  
Date Prepared: 08/31/2010 0800

Analysis Batch: 720-77181  
Prep Batch: 720-77269  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301008.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77269/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1200  
Date Prepared: 08/31/2010 0800

Analysis Batch: 720-77181  
Prep Batch: 720-77269  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301009.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	81	82	61 - 128	1	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	98		98			52 - 140	
1,2-Dichloroethane-d4 (Surr)	93		92			60 - 140	
Toluene-d8 (Surr)	94		94			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77273**

Lab Sample ID: MB 720-77273/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 08/31/2010 2217  
 Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
 Prep Batch: 720-77273  
 Units: ug/Kg

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: CHMSV2  
 Lab File ID: 08301029.D  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	52 - 140
1,2-Dichloroethane-d4 (Surr)	95	60 - 140
Toluene-d8 (Surr)	94	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77273**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77273/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2013  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301025.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77273/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2044  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301026.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	96	95	71 - 144	0	20		
Benzene	92	91	82 - 124	1	20		
Ethylene Dibromide	100	101	79 - 140	1	20		
1,2-Dichloroethane	93	92	78 - 140	1	20		
Ethylbenzene	94	95	80 - 137	0	20		
Toluene	95	95	83 - 128	0	20		
m-Xylene & p-Xylene	92	92	79 - 146	0	20		
o-Xylene	96	96	84 - 140	0	20		
TBA	94	92	76 - 119	1	20		
DIPE	93	91	83 - 131	2	20		
TAME	100	98	74 - 140	2	20		
Ethyl t-butyl ether	93	91	76 - 129	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	98		96		52 - 140		
1,2-Dichloroethane-d4 (Surr)	95		94		60 - 140		
Toluene-d8 (Surr)	95		94		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77273**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77273/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2115  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301027.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77273/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2146  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273  
Units: ug/Kg

Instrument ID: CHMSV2  
Lab File ID: 08301028.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	83	82	61 - 128	0	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	98		98			52 - 140	
1,2-Dichloroethane-d4 (Surr)	96		95			60 - 140	
Toluene-d8 (Surr)	95		95			58 - 140	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77273**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30200-9  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2350  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273

Instrument ID: CHMSV2  
Lab File ID: 08301032.D  
Initial Weight/Volume: 5.23 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30200-9  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 0021  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77242  
Prep Batch: 720-77273

Instrument ID: CHMSV2  
Lab File ID: 08301033.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	90	89	69 - 130	3	20		
Benzene	93	92	70 - 130	3	20		
Ethylene Dibromide	96	93	66 - 135	2	20		
1,2-Dichloroethane	88	87	70 - 130	3	20		
Ethylbenzene	98	95	65 - 130	2	20		
Toluene	99	97	70 - 130	3	20		
m-Xylene & p-Xylene	94	92	70 - 130	2	20		
o-Xylene	98	96	68 - 130	2	20		
TBA	94	92	70 - 130	3	20		
DIPE	91	89	70 - 130	3	20		
TAME	92	90	70 - 130	3	20		
Ethyl t-butyl ether	90	88	70 - 130	2	20		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
4-Bromofluorobenzene		94	95			52 - 140	
1,2-Dichloroethane-d4 (Surr)		89	89			60 - 140	
Toluene-d8 (Surr)		93	94			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77309**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77309/1-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/01/2010 1003  
Date Prepared: 09/01/2010 0900

Analysis Batch: 720-77267  
Prep Batch: 720-77309  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 09011004.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		25000
Surrogate	% Rec		Acceptance Limits
4-Bromofluorobenzene	98		66 - 148
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
Toluene-d8 (Surr)	97		65 - 141

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77309**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77309/4-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/01/2010 1139  
Date Prepared: 09/01/2010 0900

Analysis Batch: 720-77267  
Prep Batch: 720-77309  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 09011007.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77309/5-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/01/2010 1212  
Date Prepared: 09/01/2010 0900

Analysis Batch: 720-77267  
Prep Batch: 720-77309  
Units: ug/Kg

Instrument ID: HP9  
Lab File ID: 09011008.D  
Initial Weight/Volume: 10.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	83	81	70 - 130	2	20		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
4-Bromofluorobenzene		97	100			66 - 148	
1,2-Dichloroethane-d4 (Surr)		88	92			62 - 137	
Toluene-d8 (Surr)		97	98			65 - 141	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77220**

Lab Sample ID: MB 720-77220/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 1120  
 Date Prepared: 08/31/2010 1348

Analysis Batch: 720-77260  
 Prep Batch: 720-77220  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C**

Instrument ID: CHDRO6  
 Lab File ID: FID1000011.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300
<b>Surrogate</b>		<b>% Rec</b>	<b>Acceptance Limits</b>
p-Terphenyl	109		23 - 156

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-77220**

LCS Lab Sample ID: LCS 720-77220/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 1036  
 Date Prepared: 08/31/2010 1348

Analysis Batch: 720-77260  
 Prep Batch: 720-77220  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C**

Instrument ID: CHDRO6  
 Lab File ID: FID1000009.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77220/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 1058  
 Date Prepared: 08/31/2010 1348

Analysis Batch: 720-77260  
 Prep Batch: 720-77220  
 Units: ug/L

Instrument ID: CHDRO6  
 Lab File ID: FID1000010.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	69	82	40 - 150	18	35		
<b>Surrogate</b>		<b>LCS % Rec</b>	<b>LCSD % Rec</b>		<b>Acceptance Limits</b>		
p-Terphenyl	100	107			23 - 156		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Method Blank - Batch: 720-77231**

Lab Sample ID: MB 720-77231/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 1036  
 Date Prepared: 08/31/2010 1612

Analysis Batch: 720-77261  
 Prep Batch: 720-77231  
 Units: mg/Kg

**Method: 8015B  
 Preparation: 3550B**

Instrument ID: CHDRO6  
 Lab File ID: FID2000009.D  
 Initial Weight/Volume: 30.42 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49
<hr/>			
Surrogate	% Rec		Acceptance Limits
p-Terphenyl	106		31 - 114

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-77231**

LCS Lab Sample ID: LCS 720-77231/2-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 0952  
 Date Prepared: 08/31/2010 1612

Analysis Batch: 720-77261  
 Prep Batch: 720-77231  
 Units: mg/Kg

**Method: 8015B  
 Preparation: 3550B**

Instrument ID: CHDRO6  
 Lab File ID: FID2000007.D  
 Initial Weight/Volume: 30.28 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77231/3-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 1014  
 Date Prepared: 08/31/2010 1612

Analysis Batch: 720-77261  
 Prep Batch: 720-77231  
 Units: mg/Kg

Instrument ID: CHDRO6  
 Lab File ID: FID2000008.D  
 Initial Weight/Volume: 30.24 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	104	110	59 - 134	6	35		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	102	110			31 - 114		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77231**

**Method: 8015B  
Preparation: 3550B**

MS Lab Sample ID: 720-30200-1  
Client Matrix: Solid  
Dilution: 5.0  
Date Analyzed: 09/01/2010 1358  
Date Prepared: 08/31/2010 1612

Analysis Batch: 720-77261  
Prep Batch: 720-77231

Instrument ID: CHDRO6  
Lab File ID: FID2000017.D  
Initial Weight/Volume: 30.26 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 720-30200-1  
Client Matrix: Solid  
Dilution: 5.0  
Date Analyzed: 09/01/2010 1420  
Date Prepared: 08/31/2010 1612

Analysis Batch: 720-77261  
Prep Batch: 720-77231

Instrument ID: CHDRO6  
Lab File ID: FID2000018.D  
Initial Weight/Volume: 30.01 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	99	101	50 - 130	2	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		81	96			31 - 114	

## 720-30200

09/01/2010

Report To: **Xinggang TONG** Analysis Request

Attn: Xinggang TONG  
 Company: OTG EnviroEngineering Solutions, Inc  
 Address: 7700 Edgewater Dr., Suite 260  
 Phone: 510/465-8982 Email: Xtong@otgenv.com  
 Bill To: OTG Sampled By: X Tong  
 Attn: X. Tong Phone: 510-612-0857

- TPH EPA -  8260B  Gas w/  BTEX  MTBE  
 TEPH EPA 8015M\*  Silica Gel  
 Diesel Motor Oil  Other  
 EPA 8260B:  Gas  BTEX  
 5 Oxygenates  DCA, EDB  Ethanol  
 (HVOCs) EPA 8021 by 8260B  
 Volatile Organics GC/MS (VOCs)  
 EPA 8260B  624  
 Semivolatiles GC/MS  
 EPA 8270  625  
 Oil and Grease  Petroleum  
 (EPA 1664)  Total  
 Pesticides  EPA 8081  608  
 PCBs  EPA 8082  608  
 PNAs by  8270  8310  
 CAM17 Metals  
 (EPA 6010/7470/7471)  
 Metals:  Lead  LUFT  RCRA  
 Other:  
 Low Level Metals by EPA 200.8/6020  
 (ICP-MS):  
 W.E.T (STLC)  
 TCLP  
 Hexavalent Chromium  
 pH (24h hold time for H<sub>2</sub>O)  
 Spec. Cond.  Alkalinity  
 TSS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>

Sample ID	Date	Time	Mil lit	Preserv	TPH EPA - 8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS): <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers	
SB-5-8	8/31/10	8:40	S		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
SB-5-13		8:46	S			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
SB-5-15		8:57	S			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
SB-5-20		8:58	S			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
SB-5-25		9:03	S		<input checked="" type="checkbox"/>															
NW-7-5		10:00	S		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
NW-7-10		10:10	S		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
NW-7-15		10:15	S			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
NW-7-20		10:20	S		<input checked="" type="checkbox"/>															
NW-7-W		10:30	W			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													

# RUSH

<b>Project Info</b> Project Name: <u>B112-Oakland</u> Project#: <u>10HCT02.2000</u> PO#: _____ Credit Card#: _____		<b>Sample Receipt</b> # of Containers: _____ Head Space: _____ Temp: <u>1.50</u> Conforms to record: _____ Other: _____		1) Relinquished by: <u>[Signature]</u> <u>1:30</u> Signature Time <u>Xinggang Tong</u> <u>8/31/10</u> Printed Name Date <u>OTG</u> Company		2) Relinquished by: <u>[Signature]</u> <u>1510</u> Signature Time <u>Bryan Thomas</u> <u>8/31/10</u> Printed Name Date <u>TestAmerica</u> Company		3) Relinquished by: _____ Signature Time _____ Printed Name Date _____ Company	
TAT: 5 Day, 3 Day, 2 Day, <u>1 Day</u>		Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input checked="" type="checkbox"/> State Tank Fund EDF Special Instructions / Comments: <u>require EDF</u>		1) Received by: <u>[Signature]</u> <u>1330</u> Signature Time <u>Bryan Thomas</u> <u>8/31/10</u> Printed Name Date <u>TestAmerica</u> Company		2) Received by: <u>[Signature]</u> <u>1510</u> Signature Time <u>M. H.</u> <u>8/31/10</u> Printed Name Date <u>TASF</u> Company		3) Received by: _____ Signature Time _____ Printed Name Date _____ Company	

Harry Sidhu Quote on 8/4/10 for OTG Oakland site  
 See Terms and Conditions on reverse  
 \*TestAmerica SF reports 8015M from C<sub>9</sub>-C<sub>24</sub> (industry norm). Default for 8015B is C<sub>10</sub>-C<sub>28</sub>

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**720-30200**

**Report To** **Analysis Request**

Attn: Xinggang TONG  
 Company: OTG EnviroEngineering Solutions, Inc  
 Address: 7700 Edgewater Dr., Suite 260  
 Phone: 510/465-8982 Email: Xtong@otgenv.com  
 Bill To: OTG Sampled By: X Tong  
 Attn: X. Tong Phone: 510-612-0857

TPH EPA -  8260B  Gas w/  BTEX  MTBE  
 TEPH EPA 8015M\*  Silica Gel  Diesel  Motor Oil  Other \_\_\_\_\_  
 EPA 8260B:  Gas  BTEX  5 Oxygenates  DUA, EDBE  Ethanol (HVOCs) EPA 8021 by 8260B  
 Volatile Organics GC/MS (VOCs)  EPA 8260B  624  
 Semivolatiles GC/MS  EPA 8270  625  
 Oil and Grease  Petroleum (EPA 1664)  Total  
 Pesticides  EPA 8081  608  EPA 8082  608  
 PCBs  
 PNAs by  8270  8310  
 CAM17 Metals (EPA 6010/7470/7471)  
 Metals:  Lead  LUFT  RCRA  Other: \_\_\_\_\_  
 Low Level Metals by EPA 200.8/6020 (ICP-MS): \_\_\_\_\_  
 W.E.T (STLC)  TCLP  
 Hexavalent Chromium  pH (24h hold time for H<sub>2</sub>O)  
 Spec. Cond.  Alkalinity  TSS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  Br  NO<sub>2</sub>  PO<sub>4</sub>

Sample ID	Date	Time	Mat	Preserv	TPH EPA - 8260B Gas w/ BTEX MTBE	TEPH EPA 8015M* Silica Gel Diesel Motor Oil Other	EPA 8260B: Gas BTEX 5 Oxygenates DUA, EDBE Ethanol (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) EPA 8260B 624	Semivolatiles GC/MS EPA 8270 625	Oil and Grease Petroleum (EPA 1664) Total	Pesticides EPA 8081 608 EPA 8082 608	PCBs	PNAs by 8270 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: Lead LUFT RCRA Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec. Cond. Alkalinity TSS TDS	Anions: Cl SO <sub>4</sub> NO <sub>3</sub> F Br NO <sub>2</sub> PO <sub>4</sub>	Number of Containers	
NW-5-5	8/31/10	10:45	S			X X																
NW-5-10		10:48	S		X X																	
NW-5-15		10:52	S			X X																
NW-5-20		10:58	S		X X																	
NW-5-25		11:03	S			X X																

**RUSH**

**Project Info**  
 Project Name: B112-Oakland  
 Project#: 10HCT02.2000  
 PO#: \_\_\_\_\_  
 Credit Card#: \_\_\_\_\_

**Sample Receipt**  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: 1.5C  
 Conforms to record: \_\_\_\_\_

1) Relinquished by: [Signature] 1:30  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Xinggang Tong 8/31/10  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
OTG  
 Company: \_\_\_\_\_

2) Relinquished by: [Signature] 1510  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Bryan Thomas 8/31/10  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
TestAmerica  
 Company: \_\_\_\_\_

3) Relinquished by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

T A 5 3 2 1  
 Day Day Day Day Day  
 Report:  Routine  Level 3  Level 4  EDD  State Tank Fund EDF  
 Special Instructions / Comments: require EDF  Global ID SLT19761201 Logcode: OTGO  
Harry Sidhu Quote on 8/4/10 for OTG Oakland site  
 See Terms and Conditions on reverse  
 \*TestAmerica SF reports 8015M from C<sub>2</sub>-C<sub>24</sub> (Industry norm). Default for 8015B is C<sub>10</sub>-C<sub>24</sub>

1) Received by: [Signature] 1330  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
Bryan Thomas 8/31/10  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
TestAmerica  
 Company: \_\_\_\_\_

2) Received by: [Signature] 1510  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
[Signature] 8/31/10  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
[Signature]  
 Company: \_\_\_\_\_

3) Received by: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_





## Login Sample Receipt Check List

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30200-1

**Login Number: 30200**

**Creator: Hoang, Julie**

**List Number: 1**

**List Source: TestAmerica San Francisco**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## ANALYTICAL REPORT

Job Number: 720-30218-1

Job Description: B112-Oakland

For:

OTG EnviroEngineering Solutions, Inc.

7700 Edgewater Drive

Suite 260

Oakland, CA 94621

Attention: Mr. Xinggang Tong



Approved for release.  
Afsaneh Salimpour  
Project Manager I  
9/8/2010 3:13 PM

---

Afsaneh Salimpour  
Project Manager I  
afsaneh.salimpour@testamericainc.com  
09/08/2010

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-30218-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: NW-8-5 (720-30218-3).

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Lab Sample ID	Client Sample ID	Analyte	Result / Qualifier	Reporting Limit	Units	Method
720-30218-1	NW-6-10	Diesel Range Organics [C10-C28]	1.0	0.99	mg/Kg	8015B
720-30218-2	NW-6-15	Diesel Range Organics [C10-C28]	6.5	0.99	mg/Kg	8015B
720-30218-3	NW-8-5	Diesel Range Organics [C10-C28]	340	20	mg/Kg	8015B
		Motor Oil Range Organics [C24-C36]	1700	990	mg/Kg	8015B
720-30218-7	NW-3-5	Diesel Range Organics [C10-C28]	27	1.0	mg/Kg	8015B
		Motor Oil Range Organics [C24-C36]	70	50	mg/Kg	8015B
720-30218-9	NW-3-15	Methyl tert-butyl ether	50	4.8	ug/Kg	8260B/CA_LUFTMS
		Gasoline Range Organics (GRO)-C5-C12	8400	1200	ug/Kg	8260B/CA_LUFTMS
		TBA	14	9.5	ug/Kg	8260B/CA_LUFTMS
720-30218-13	NW-9-15	Diesel Range Organics [C10-C28]	8.8	1.0	mg/Kg	8015B
720-30218-15	NW-9-W	Diesel Range Organics [C10-C28]	700	53	ug/L	8015B
		Motor Oil Range Organics [C24-C36]	880	320	ug/L	8015B

## METHOD SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Description	Lab Location	Method	Preparation Method
<b>Matrix Solid</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
<b>Matrix Water</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

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

## METHOD / ANALYST SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B/CA_LUFTMS	Chen, Amy	AC
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

## SAMPLE SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-30218-1	NW-6-10	Solid	08/31/2010 1415	08/31/2010 1748
720-30218-2	NW-6-15	Solid	08/31/2010 1420	08/31/2010 1748
720-30218-3	NW-8-5	Solid	08/31/2010 1435	08/31/2010 1748
720-30218-4	NW-8-10	Solid	08/31/2010 1440	08/31/2010 1748
720-30218-5	NW-8-15	Solid	08/31/2010 1445	08/31/2010 1748
720-30218-6	NW-8-20	Solid	08/31/2010 1450	08/31/2010 1748
720-30218-7	NW-3-5	Solid	08/31/2010 1515	08/31/2010 1748
720-30218-8	NW-3-10	Solid	08/31/2010 1522	08/31/2010 1748
720-30218-9	NW-3-15	Solid	08/31/2010 1525	08/31/2010 1748
720-30218-10	NW-3-20	Solid	08/31/2010 1530	08/31/2010 1748
720-30218-11	NW-9-5	Solid	08/31/2010 1605	08/31/2010 1748
720-30218-12	NW-9-10	Solid	08/31/2010 1610	08/31/2010 1748
720-30218-13	NW-9-15	Solid	08/31/2010 1615	08/31/2010 1748
720-30218-14	NW-9-20	Solid	08/31/2010 1620	08/31/2010 1748
720-30218-15	NW-9-W	Water	08/31/2010 1640	08/31/2010 1748
720-30218-16TB	TB-2	Water	08/31/2010 0000	08/31/2010 1748

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID: NW-6-10**

Lab Sample ID: 720-30218-1

Date Sampled: 08/31/2010 1415

Client Matrix: Solid

Date Received: 08/31/2010 1748

**8260B/CA\_LUFTMS 8260B / CA LUFT MS**

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77244	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77287	Lab File ID:	08311034.D
Dilution:	1.0		Initial Weight/Volume:	5.20 g
Date Analyzed:	09/01/2010 0058		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.6
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
Toluene-d8 (Surr)	96		58 - 140



Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-6-15

Lab Sample ID: 720-30218-2

Date Sampled: 08/31/2010 1420

Client Matrix: Solid

Date Received: 08/31/2010 1748

8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS Analysis Batch: 720-77244 Instrument ID: HP12  
Preparation: 5030B Prep Batch: 720-77287 Lab File ID: 08311037.D  
Dilution: 1.0 Initial Weight/Volume: 5.19 g  
Date Analyzed: 09/01/2010 0228 Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.6
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	94		58 - 140

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID: NW-8-5**

Lab Sample ID: 720-30218-3

Date Sampled: 08/31/2010 1435

Client Matrix: Solid

Date Received: 08/31/2010 1748

**8260B/CA\_LUFTMS 8260B / CA LUFT MS**

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77244	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77287	Lab File ID:	08311038.D
Dilution:	1.0		Initial Weight/Volume:	5.03 g
Date Analyzed:	09/01/2010 0258		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		52 - 140
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-8-10

Lab Sample ID: 720-30218-4

Date Sampled: 08/31/2010 1440

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311026.D  
Dilution: 1.0      Initial Weight/Volume: 5.08 g  
Date Analyzed: 08/31/2010 2256      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	83		60 - 140
Toluene-d8 (Surr)	92		58 - 140

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID: NW-8-15**

Lab Sample ID: 720-30218-5

Date Sampled: 08/31/2010 1445

Client Matrix: Solid

Date Received: 08/31/2010 1748

**8260B/CA\_LUFTMS 8260B / CA LUFT MS**

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77244	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77287	Lab File ID:	08311039.D
Dilution:	1.0		Initial Weight/Volume:	5.40 g
Date Analyzed:	09/01/2010 0328		Final Weight/Volume:	10 mL
Date Prepared:	08/31/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.6
Benzene		ND		4.6
Ethylene Dibromide		ND		4.6
1,2-Dichloroethane		ND		4.6
Ethylbenzene		ND		4.6
Toluene		ND		4.6
Xylenes, Total		ND		9.3
Gasoline Range Organics (GRO)-C5-C12		ND		230
TBA		ND		9.3
DIPE		ND		4.6
TAME		ND		4.6
Ethyl t-butyl ether		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-8-20

Lab Sample ID: 720-30218-6

Date Sampled: 08/31/2010 1450

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311027.D  
Dilution: 1.0      Initial Weight/Volume: 5.10 g  
Date Analyzed: 08/31/2010 2330      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	81		60 - 140
Toluene-d8 (Surr)	92		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-3-5

Lab Sample ID: 720-30218-7

Date Sampled: 08/31/2010 1515

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311028.D  
Dilution: 1.0      Initial Weight/Volume: 5.16 g  
Date Analyzed: 09/01/2010 0005      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		52 - 140
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
Toluene-d8 (Surr)	91		58 - 140

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-3-10

Lab Sample ID: 720-30218-8

Date Sampled: 08/31/2010 1522

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8260B/CA\_LUFTMS 8260B / CA LUFT MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311029.D  
Dilution: 1.0      Initial Weight/Volume: 5.38 g  
Date Analyzed: 09/01/2010 0039      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.6
Ethylbenzene		ND		4.6
Toluene		ND		4.6
Xylenes, Total		ND		9.3
Gasoline Range Organics (GRO)-C5-C12		ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	82		52 - 140
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	92		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-3-15

Lab Sample ID: 720-30218-9

Date Sampled: 08/31/2010 1525

Client Matrix: Solid

Date Received: 08/31/2010 1748

8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS Analysis Batch: 720-77244 Instrument ID: HP12  
Preparation: 5030B Prep Batch: 720-77287 Lab File ID: 08311040.D  
Dilution: 1.0 Initial Weight/Volume: 5.24 g  
Date Analyzed: 09/01/2010 0358 Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		50		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.5
TBA		14		9.5
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		52 - 140
1,2-Dichloroethane-d4 (Surr)	108		60 - 140
Toluene-d8 (Surr)	103		58 - 140



Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-3-15

Lab Sample ID: 720-30218-9

Date Sampled: 08/31/2010 1525

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77314	Instrument ID:	HP5
Preparation:	5030B	Prep Batch: 720-77357	Lab File ID:	090110027.D
Dilution:	1.0		Initial Weight/Volume:	1 g
Date Analyzed:	09/01/2010 2257		Final Weight/Volume:	10 mL
Date Prepared:	09/01/2010 1600			

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Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		8400		1200

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Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	111		52 - 140
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	103		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-3-20

Lab Sample ID: 720-30218-10

Date Sampled: 08/31/2010 1530

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311030.D  
Dilution: 1.0      Initial Weight/Volume: 5.20 g  
Date Analyzed: 09/01/2010 0113      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		52 - 140
1,2-Dichloroethane-d4 (Surr)	84		60 - 140
Toluene-d8 (Surr)	90		58 - 140

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID: NW-9-5**

Lab Sample ID: 720-30218-11

Date Sampled: 08/31/2010 1605

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8260B/CA\_LUFTMS 8260B / CA LUFT MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311031.D  
Dilution: 1.0      Initial Weight/Volume: 5.02 g  
Date Analyzed: 09/01/2010 0147      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	91		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-9-10

Lab Sample ID: 720-30218-12

Date Sampled: 08/31/2010 1610

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77244      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77287      Lab File ID: 08311041.D  
Dilution: 1.0      Initial Weight/Volume: 5.24 g  
Date Analyzed: 09/01/2010 0427      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.5
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.5
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	114		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-9-15

Lab Sample ID: 720-30218-13

Date Sampled: 08/31/2010 1615

Client Matrix: Solid

Date Received: 08/31/2010 1748

8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS Analysis Batch: 720-77244 Instrument ID: HP12  
Preparation: 5030B Prep Batch: 720-77287 Lab File ID: 08311042.D  
Dilution: 1.0 Initial Weight/Volume: 5.41 g  
Date Analyzed: 09/01/2010 0458 Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.6
Benzene		ND		4.6
Ethylene Dibromide		ND		4.6
1,2-Dichloroethane		ND		4.6
Ethylbenzene		ND		4.6
Toluene		ND		4.6
Xylenes, Total		ND		9.2
Gasoline Range Organics (GRO)-C5-C12		ND		230
TBA		ND		9.2
DIPE		ND		4.6
TAME		ND		4.6
Ethyl t-butyl ether		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-9-20

Lab Sample ID: 720-30218-14

Date Sampled: 08/31/2010 1620

Client Matrix: Solid

Date Received: 08/31/2010 1748

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8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77235      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77281      Lab File ID: 08311032.D  
Dilution: 1.0      Initial Weight/Volume: 5.09 g  
Date Analyzed: 09/01/2010 0221      Final Weight/Volume: 10 mL  
Date Prepared: 08/31/2010 2000

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	82		52 - 140
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	89		58 - 140

Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: NW-9-W

Lab Sample ID: 720-30218-15

Date Sampled: 08/31/2010 1640

Client Matrix: Water

Date Received: 08/31/2010 1748

8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77328      Instrument ID: HP4  
Preparation: 5030B      Lab File ID: 090110036.D  
Dilution: 1.0      Initial Weight/Volume: 10 mL  
Date Analyzed: 09/02/2010 0248      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 0248

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	106		67 - 130
Toluene-d8 (Surr)	98		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

Client Sample ID: TB-2

Lab Sample ID: 720-30218-16TB

Date Sampled: 08/31/2010 0000

Client Matrix: Water

Date Received: 08/31/2010 1748

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77328	Instrument ID:	HP4
Preparation:	5030B		Lab File ID:	090110029.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	09/01/2010 2304		Final Weight/Volume:	10 mL
Date Prepared:	09/01/2010 2304			

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		67 - 130
Toluene-d8 (Surr)	90		70 - 130



**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-6-10

Lab Sample ID: 720-30218-1

Date Sampled: 08/31/2010 1415

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.28 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1745		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.0		0.99
Motor Oil Range Organics [C24-C36]		ND		50

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	94		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-6-15

Lab Sample ID: 720-30218-2

Date Sampled: 08/31/2010 1420

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.19 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1807		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		6.5		0.99
Motor Oil Range Organics [C24-C36]		ND		50

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	90		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-8-5

Lab Sample ID: 720-30218-3

Date Sampled: 08/31/2010 1435

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.35 g
Dilution:	20		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1829		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		340		20
Motor Oil Range Organics [C24-C36]		1700		990

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	136	D	31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-8-15

Lab Sample ID: 720-30218-5

Date Sampled: 08/31/2010 1445

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.09 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1913		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-8-20

Lab Sample ID: 720-30218-6

Date Sampled: 08/31/2010 1450

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.29 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1935		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	93		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-3-5

Lab Sample ID: 720-30218-7

Date Sampled: 08/31/2010 1515

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.05 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2102		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		27		1.0
Motor Oil Range Organics [C24-C36]		70		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	76		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-3-15

Lab Sample ID: 720-30218-9

Date Sampled: 08/31/2010 1525

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.44 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2146		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-9-10

Lab Sample ID: 720-30218-12

Date Sampled: 08/31/2010 1610

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.09 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2208		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	104		31 - 114



**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-9-15

Lab Sample ID: 720-30218-13

Client Matrix: Solid

Date Sampled: 08/31/2010 1615

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.08 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2230		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		8.8		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	99		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-9-20

Lab Sample ID: 720-30218-14

Date Sampled: 08/31/2010 1620

Client Matrix: Solid

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77419	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77284	Initial Weight/Volume:	30.14 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2252		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1104		Result Type:	PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	91		31 - 114

**Analytical Data**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Client Sample ID:** NW-9-W

Lab Sample ID: 720-30218-15

Date Sampled: 08/31/2010 1640

Client Matrix: Water

Date Received: 08/31/2010 1748

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**8015B Diesel Range Organics (DRO) (GC)**

Method:	8015B	Analysis Batch: 720-77418	Instrument ID:	CHDRO6
Preparation:	3510C	Prep Batch: 720-77302	Initial Weight/Volume:	930 mL
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0230		Injection Volume:	1 uL
Date Prepared:	09/01/2010 1401		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	700		53
Motor Oil Range Organics [C24-C36]	880		320

---

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	96		23 - 156

## DATA REPORTING QUALIFIERS

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC Semi VOA	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77235</b>					
LCS 720-77281/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77281
LCS 720-77281/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77281
LCSD 720-77281/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77281
LCSD 720-77281/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77281
MB 720-77281/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77281
720-30218-4	NW-8-10	T	Solid	8260B/CA_LUFT	720-77281
720-30218-6	NW-8-20	T	Solid	8260B/CA_LUFT	720-77281
720-30218-7	NW-3-5	T	Solid	8260B/CA_LUFT	720-77281
720-30218-8	NW-3-10	T	Solid	8260B/CA_LUFT	720-77281
720-30218-10	NW-3-20	T	Solid	8260B/CA_LUFT	720-77281
720-30218-11	NW-9-5	T	Solid	8260B/CA_LUFT	720-77281
720-30218-14	NW-9-20	T	Solid	8260B/CA_LUFT	720-77281
720-30218-14MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77281
720-30218-14MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77281
<b>Analysis Batch:720-77244</b>					
LCS 720-77287/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77287
LCS 720-77287/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77287
LCSD 720-77287/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77287
LCSD 720-77287/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77287
MB 720-77287/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77287
720-30218-1	NW-6-10	T	Solid	8260B/CA_LUFT	720-77287
720-30218-1MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77287
720-30218-1MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77287
720-30218-2	NW-6-15	T	Solid	8260B/CA_LUFT	720-77287
720-30218-3	NW-8-5	T	Solid	8260B/CA_LUFT	720-77287
720-30218-5	NW-8-15	T	Solid	8260B/CA_LUFT	720-77287
720-30218-9	NW-3-15	T	Solid	8260B/CA_LUFT	720-77287
720-30218-12	NW-9-10	T	Solid	8260B/CA_LUFT	720-77287
720-30218-13	NW-9-15	T	Solid	8260B/CA_LUFT	720-77287

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77281</b>					
LCS 720-77281/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77281/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77281/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77281/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77281/1-A	Method Blank	T	Solid	5030B	
720-30218-4	NW-8-10	T	Solid	5030B	
720-30218-6	NW-8-20	T	Solid	5030B	
720-30218-7	NW-3-5	T	Solid	5030B	
720-30218-8	NW-3-10	T	Solid	5030B	
720-30218-10	NW-3-20	T	Solid	5030B	
720-30218-11	NW-9-5	T	Solid	5030B	
720-30218-14	NW-9-20	T	Solid	5030B	
720-30218-14MS	Matrix Spike	T	Solid	5030B	
720-30218-14MSD	Matrix Spike Duplicate	T	Solid	5030B	
<b>Prep Batch: 720-77287</b>					
LCS 720-77287/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77287/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77287/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77287/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77287/1-A	Method Blank	T	Solid	5030B	
720-30218-1	NW-6-10	T	Solid	5030B	
720-30218-1MS	Matrix Spike	T	Solid	5030B	
720-30218-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-30218-2	NW-6-15	T	Solid	5030B	
720-30218-3	NW-8-5	T	Solid	5030B	
720-30218-5	NW-8-15	T	Solid	5030B	
720-30218-9	NW-3-15	T	Solid	5030B	
720-30218-12	NW-9-10	T	Solid	5030B	
720-30218-13	NW-9-15	T	Solid	5030B	
<b>Analysis Batch:720-77314</b>					
LCS 720-77357/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77357
LCSD 720-77357/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77357
MB 720-77357/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77357
720-30218-9	NW-3-15	T	Solid	8260B/CA_LUFT	720-77357
<b>Analysis Batch:720-77328</b>					
LCS 720-77328/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77328/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77328/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77328/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77328/9	Method Blank	T	Water	8260B/CA_LUFT	
720-30218-15	NW-9-W	T	Water	8260B/CA_LUFT	
720-30218-16TB	TB-2	T	Water	8260B/CA_LUFT	

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## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

### QC Association Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Report Basis</u>	<u>Client Matrix</u>	<u>Method</u>	<u>Prep Batch</u>
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77357</b>					
LCS 720-77357/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77357/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77357/1-A	Method Blank	T	Solid	5030B	
720-30218-9	NW-3-15	T	Solid	5030B	

#### Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77260</b>					
LCS 720-77284/2-A	Lab Control Sample	T	Solid	8015B	720-77284
LCSD 720-77284/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77284
MB 720-77284/1-A	Method Blank	T	Solid	8015B	720-77284
<b>Prep Batch: 720-77284</b>					
LCS 720-77284/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77284/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77284/1-A	Method Blank	T	Solid	3550B	
720-30218-1	NW-6-10	T	Solid	3550B	
720-30218-2	NW-6-15	T	Solid	3550B	
720-30218-3	NW-8-5	T	Solid	3550B	
720-30218-5	NW-8-15	T	Solid	3550B	
720-30218-6	NW-8-20	T	Solid	3550B	
720-30218-7	NW-3-5	T	Solid	3550B	
720-30218-9	NW-3-15	T	Solid	3550B	
720-30218-12	NW-9-10	T	Solid	3550B	
720-30218-13	NW-9-15	T	Solid	3550B	
720-30218-14	NW-9-20	T	Solid	3550B	
<b>Prep Batch: 720-77302</b>					
LCS 720-77302/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-77302/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-77302/1-A	Method Blank	T	Water	3510C	
720-30218-15	NW-9-W	T	Water	3510C	
<b>Analysis Batch:720-77340</b>					
LCS 720-77302/2-A	Lab Control Sample	T	Water	8015B	720-77302
LCSD 720-77302/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-77302
MB 720-77302/1-A	Method Blank	T	Water	8015B	720-77302
<b>Analysis Batch:720-77418</b>					
720-30218-15	NW-9-W	T	Water	8015B	720-77302
<b>Analysis Batch:720-77419</b>					
720-30218-1	NW-6-10	T	Solid	8015B	720-77284
720-30218-2	NW-6-15	T	Solid	8015B	720-77284
720-30218-3	NW-8-5	T	Solid	8015B	720-77284
720-30218-5	NW-8-15	T	Solid	8015B	720-77284
720-30218-6	NW-8-20	T	Solid	8015B	720-77284
720-30218-7	NW-3-5	T	Solid	8015B	720-77284
720-30218-9	NW-3-15	T	Solid	8015B	720-77284
720-30218-12	NW-9-10	T	Solid	8015B	720-77284
720-30218-13	NW-9-15	T	Solid	8015B	720-77284
720-30218-14	NW-9-20	T	Solid	8015B	720-77284



**Quality Control Results**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**QC Association Summary**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Report Basis</b>	<b>Client Matrix</b>	<b>Method</b>	<b>Prep Batch</b>
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**Report Basis**

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

### Method Blank - Batch: 720-77281

Lab Sample ID: MB 720-77281/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2158  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77235  
Prep Batch: 720-77281  
Units: ug/Kg

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: HP7  
Lab File ID: 08311025.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	52 - 140
1,2-Dichloroethane-d4 (Surr)	82	60 - 140
Toluene-d8 (Surr)	93	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77281**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77281/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 1942  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77235  
Prep Batch: 720-77281  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 08311021.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77281/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2016  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77235  
Prep Batch: 720-77281  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 08311022.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	102	103	82 - 124	1	20		
Ethylbenzene	108	108	80 - 137	1	20		
Toluene	108	108	83 - 128	1	20		
m-Xylene & p-Xylene	109	108	79 - 146	1	20		
o-Xylene	104	103	84 - 140	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	95		96		52 - 140		
1,2-Dichloroethane-d4 (Surr)	73		76		60 - 140		
Toluene-d8 (Surr)	98		97		58 - 140		

**Quality Control Results**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77281**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77281/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2050  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77235  
Prep Batch: 720-77281  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 08311023.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77281/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2124  
Date Prepared: 08/31/2010 1700

Analysis Batch: 720-77235  
Prep Batch: 720-77281  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 08311024.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	83	78	61 - 128	6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	95		96			52 - 140	
1,2-Dichloroethane-d4 (Surr)	80		78			60 - 140	
Toluene-d8 (Surr)	99		98			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77281**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30218-14  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 0255  
Date Prepared: 08/31/2010 2000

Analysis Batch: 720-77235  
Prep Batch: 720-77281

Instrument ID: HP7  
Lab File ID: 08311033.D  
Initial Weight/Volume: 5.39 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30218-14  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 0329  
Date Prepared: 08/31/2010 2000

Analysis Batch: 720-77235  
Prep Batch: 720-77281

Instrument ID: HP7  
Lab File ID: 08311034.D  
Initial Weight/Volume: 5.42 g  
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	98	99	70 - 130	0	20		
Ethylbenzene	107	108	65 - 130	0	20		
Toluene	105	106	70 - 130	1	20		
m-Xylene & p-Xylene	111	111	70 - 130	0	20		
o-Xylene	107	110	68 - 130	2	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	99		101		52 - 140		
1,2-Dichloroethane-d4 (Surr)	87		90		60 - 140		
Toluene-d8 (Surr)	98		97		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Method Blank - Batch: 720-77287**

Lab Sample ID: MB 720-77287/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 0028  
 Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
 Prep Batch: 720-77287  
 Units: ug/Kg

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: HP12  
 Lab File ID: 08311033.D  
 Initial Weight/Volume: 5.00 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	52 - 140
1,2-Dichloroethane-d4 (Surr)	113	60 - 140
Toluene-d8 (Surr)	99	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77287**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77287/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2228  
Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
Prep Batch: 720-77287  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08311029.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77287/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2258  
Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
Prep Batch: 720-77287  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08311030.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	114	114	71 - 144	1	20		
Benzene	96	97	82 - 124	2	20		
Ethylene Dibromide	119	117	79 - 140	2	20		
1,2-Dichloroethane	113	114	78 - 140	1	20		
Ethylbenzene	101	103	80 - 137	2	20		
Toluene	96	98	83 - 128	2	20		
m-Xylene & p-Xylene	98	100	79 - 146	2	20		
o-Xylene	102	104	84 - 140	2	20		
TBA	97	96	76 - 119	2	20		
DIPE	104	104	83 - 131	0	20		
TAME	120	122	74 - 140	1	20		
Ethyl t-butyl ether	110	111	76 - 129	1	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	103		102	52 - 140			
1,2-Dichloroethane-d4 (Surr)	113		112	60 - 140			
Toluene-d8 (Surr)	99		100	58 - 140			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77287**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77287/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2328  
Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
Prep Batch: 720-77287  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08311031.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77287/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 08/31/2010 2358  
Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
Prep Batch: 720-77287  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 08311032.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	89	89	61 - 128	1	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	103		104	52 - 140			
1,2-Dichloroethane-d4 (Surr)	116		113	60 - 140			
Toluene-d8 (Surr)	99		99	58 - 140			



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Matrix Spike/**

**Matrix Spike Duplicate Recovery Report - Batch: 720-77287**

**Method: 8260B/CA\_LUFTMS**

**Preparation: 5030B**

MS Lab Sample ID: 720-30218-1  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 0128  
 Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
 Prep Batch: 720-77287

Instrument ID: HP12  
 Lab File ID: 08311035.D  
 Initial Weight/Volume: 5.10 g  
 Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30218-1  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 0158  
 Date Prepared: 08/31/2010 1900

Analysis Batch: 720-77244  
 Prep Batch: 720-77287

Instrument ID: HP12  
 Lab File ID: 08311036.D  
 Initial Weight/Volume: 5.64 g  
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	112	115	69 - 130	7	20		
Benzene	94	97	70 - 130	6	20		
Ethylene Dibromide	109	113	66 - 135	6	20		
1,2-Dichloroethane	109	113	70 - 130	7	20		
Ethylbenzene	100	103	65 - 130	7	20		
Toluene	97	99	70 - 130	8	20		
m-Xylene & p-Xylene	98	101	70 - 130	7	20		
o-Xylene	103	105	68 - 130	8	20		
TBA	95	97	70 - 130	8	20		
DIPE	101	102	70 - 130	9	20		
TAME	116	122	70 - 130	6	20		
Ethyl t-butyl ether	107	111	70 - 130	7	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	98		100	52 - 140			
1,2-Dichloroethane-d4 (Surr)	110		111	60 - 140			
Toluene-d8 (Surr)	100		99	58 - 140			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Method Blank - Batch: 720-77328**

Lab Sample ID: MB 720-77328/9  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 2232  
 Date Prepared: 09/01/2010 2232

Analysis Batch: 720-77328  
 Prep Batch: N/A  
 Units: ug/L

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: HP4  
 Lab File ID: 090110028.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	67 - 130
1,2-Dichloroethane-d4 (Surr)	104	67 - 130
Toluene-d8 (Surr)	97	70 - 130

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77328**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77328/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/01/2010 2024  
Date Prepared: 09/01/2010 2024

Analysis Batch: 720-77328  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 090110024.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77328/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/01/2010 2056  
Date Prepared: 09/01/2010 2056

Analysis Batch: 720-77328  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 090110025.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	106	115	62 - 130	8	20		
Benzene	97	106	82 - 127	9	20		
Ethylene Dibromide	102	111	70 - 130	8	20		
1,2-Dichloroethane	98	107	70 - 126	8	20		
Ethylbenzene	101	109	86 - 135	7	20		
Toluene	100	107	83 - 129	7	20		
m-Xylene & p-Xylene	98	105	70 - 142	6	20		
o-Xylene	101	109	89 - 136	7	20		
TBA	97	106	82 - 116	9	20		
DIPE	103	113	74 - 155	9	20		
TAME	114	123	79 - 129	8	20		
Ethyl t-butyl ether	104	114	70 - 130	9	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	96		104		67 - 130		
1,2-Dichloroethane-d4 (Surr)	96		103		67 - 130		
Toluene-d8 (Surr)	97		105		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77328**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77328/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/01/2010 2128  
Date Prepared: 09/01/2010 2128

Analysis Batch: 720-77328  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 090110026.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77328/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/01/2010 2200  
Date Prepared: 09/01/2010 2200

Analysis Batch: 720-77328  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP4  
Lab File ID: 090110027.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	90	91	59 - 111	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	103		105			67 - 130	
1,2-Dichloroethane-d4 (Surr)	103		105			67 - 130	
Toluene-d8 (Surr)	103		105			70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Method Blank - Batch: 720-77357**

Lab Sample ID: MB 720-77357/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/01/2010 2013  
 Date Prepared: 09/01/2010 1600

Analysis Batch: 720-77314  
 Prep Batch: 720-77357  
 Units: ug/Kg

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: HP5  
 Lab File ID: 090110022.D  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	52 - 140
1,2-Dichloroethane-d4 (Surr)	101	60 - 140
Toluene-d8 (Surr)	97	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77357**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77357/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 1908  
Date Prepared: 09/01/2010 1600

Analysis Batch: 720-77314  
Prep Batch: 720-77357  
Units: ug/Kg

Instrument ID: HP5  
Lab File ID: 090110020.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77357/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/01/2010 1940  
Date Prepared: 09/01/2010 1600

Analysis Batch: 720-77314  
Prep Batch: 720-77357  
Units: ug/Kg

Instrument ID: HP5  
Lab File ID: 090110021.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	119	118	61 - 128	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	106		106			52 - 140	
1,2-Dichloroethane-d4 (Surr)	101		105			60 - 140	
Toluene-d8 (Surr)	100		101			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Method Blank - Batch: 720-77284**

**Method: 8015B  
Preparation: 3550B**

Lab Sample ID: MB 720-77284/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 0420  
Date Prepared: 09/01/2010 1104

Analysis Batch: 720-77260  
Prep Batch: 720-77284  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000054.D  
Initial Weight/Volume: 30.10 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50
<hr/>			
Surrogate	% Rec	Acceptance Limits	
p-Terphenyl	97	31 - 114	

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77284**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77284/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 0337  
Date Prepared: 09/01/2010 1104

Analysis Batch: 720-77260  
Prep Batch: 720-77284  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000052.D  
Initial Weight/Volume: 30.01 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77284/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 0358  
Date Prepared: 09/01/2010 1104

Analysis Batch: 720-77260  
Prep Batch: 720-77284  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000053.D  
Initial Weight/Volume: 30.24 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	102	97	59 - 134	6	35		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	110		103		31 - 114		

**Quality Control Results**

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Method Blank - Batch: 720-77302**

Lab Sample ID: MB 720-77302/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/02/2010 1129  
 Date Prepared: 09/01/2010 1401

Analysis Batch: 720-77340  
 Prep Batch: 720-77302  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C**

Instrument ID: CHDRO5  
 Lab File ID: 0902105b\_010.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300
Surrogate	% Rec	Acceptance Limits	
p-Terphenyl	106	23 - 156	

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-77302**

LCS Lab Sample ID: LCS 720-77302/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/02/2010 1042  
 Date Prepared: 09/01/2010 1401

Analysis Batch: 720-77340  
 Prep Batch: 720-77302  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C**

Instrument ID: CHDRO5  
 Lab File ID: 0902105b\_008.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77302/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/02/2010 1105  
 Date Prepared: 09/01/2010 1401

Analysis Batch: 720-77340  
 Prep Batch: 720-77302  
 Units: ug/L

Instrument ID: CHDRO5  
 Lab File ID: 0902105b\_009.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	80	86	40 - 150	7	35		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	111	113			23 - 156		



Report To					Analysis Request																	
Attn: <u>Xinggang TONG</u>																						
Company: <u>OTG EnviroEngineering Solutions, Inc</u>																						
Address: <u>7700 Edgewater Dr., Suite 260</u>																						
Phone: <u>510/465-8982</u> Email: <u>xtong@otgenv.com</u>																						
Bill To: <u>OTG</u>		Sampled By: <u>X Tong</u>																				
Attn: <u>X. Tong</u>		Phone: <u>510-612-0857</u>																				
Sample ID	Date	Time	Mat rix	Preserv	TPH EPA - 8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTX <input checked="" type="checkbox"/> 5 Oxygenates <input checked="" type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBS	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107/4707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Antions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers
1	NW-6-10	8/31/10	2:15	S		X	X															
2	NW-6-15		2:20	S		X	X															
3	NW-8-5		2:35	S		X	X															
4	NW-8-10		2:40	S	X																	
5	NW-8-15		2:45	S		X	X															
6	NW-8-20		2:50	S	X	X																
7	NW-3-5		3:15	S	X	X																
8	NW-3-10		3:22	S	X																	
9	NW-3-15		3:25	S		X	X															
10	NW-3-20		3:30	S	X																	

**RUSH** Jan 8-31-10

Project Info		Sample Receipt	
Project Name: <u>B112-Oakland</u>	# of Containers:		
Project#: <u>10HCT02.2000</u>	Head Space:		
PO#:	Temp: <u>60</u>		
Credit Card#:	Conforms to record:		

1) Relinquished by:  
Xinggang Tong 5:05 pm  
 Signature Time  
Xinggang Tong 8/31/10  
 Printed Name Date  
OTG  
 Company

2) Relinquished by:  
[Signature] 5:48 P  
 Signature Time  
Carlos 8/31/10  
 Printed Name Date  
 Company

3) Relinquished by:  
 Signature Time  
 Printed Name Date  
 Company

T A T	(5) Day	3 Day	2 Day	1 Day	Other:
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input checked="" type="checkbox"/> State Tank Fund EDF					
Special Instructions / Comments: <u>require EDF</u> <input checked="" type="checkbox"/> Global ID <u>SLT19761201</u> <u>LogCode: OTGO</u>					
<u>Harry Sidhu Quote on 6/4/10 for OTG Oakland site</u>					
*TestAmerica SF reports 8015M from C <sub>8</sub> -C <sub>24</sub> (Industry norm). Default for 8015B is C <sub>10</sub> -C <sub>25</sub>					

1) Received by:  
[Signature] 5:05 P  
 Signature Time  
[Signature] 8/31/10  
 Printed Name Date  
 Company

2) Received by:  
[Signature] 1748  
 Signature Time  
Mullen 8-31-10  
 Printed Name Date  
Test America  
 Company

3) Received by:  
 Signature Time  
 Printed Name Date  
 Company

**720-30218**

09/08/2010

Report To					Analysis Request																
Attn: <u>Xinggang TONG</u>					<input checked="" type="checkbox"/> TPH EPA - 8260B <input checked="" type="checkbox"/> Gas w/ BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TEPH EPA 8015M* <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other <input checked="" type="checkbox"/> EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 5 Oxygenates <input checked="" type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol <input type="checkbox"/> (HVOCs) EPA 8021 by 8260B <input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624 <input type="checkbox"/> Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625 <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum <input type="checkbox"/> (EPA 1664) Total <input type="checkbox"/> Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 <input type="checkbox"/> PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 <input type="checkbox"/> CAM17 Metals <input type="checkbox"/> (EPA 6010/7470/7471) <input type="checkbox"/> Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other <input type="checkbox"/> Low Level Metals by EPA 200.8/6020 <input type="checkbox"/> (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O) <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Company: <u>OTG EnviroEngineering Solutions, Inc</u>					Address: <u>7700 Edgewater Dr., Suite 260</u>					Phone: <u>510/465-8982</u> Email: <u>xtong@otgenv.com</u>					Number of Containers
Bill To: <u>OTG</u>		Sampled By: <u>X Tong</u>				Attn: <u>X. Tong</u>					Phone: <u>510-612-0857</u>										
Sample ID	Date	Time	Mat	Preserv																	
<u>NW-9-5</u>	<u>8/31/10</u>	<u>4:05</u>	<u>S</u>																		
<u>NW-9-10</u>		<u>4:10</u>	<u>S</u>																		
<u>NW-9-15</u>		<u>4:15</u>	<u>S</u>																		
<u>NW-9-20</u>		<u>4:20</u>	<u>S</u>																		
<u>NW-9-W</u>		<u>4:40</u>	<u>W</u>																		
<u>TB-2</u>			<u>W</u>																		

~~RUSH~~

DM  
P3110

Project Info	Sample Receipt	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Project Name: <u>B112-Oakland</u>	# of Containers: _____	<u>Xinggang Tong</u> <u>5:05</u>	<u>[Signature]</u> <u>5:48 P</u>	_____
Project#: <u>10HCT02.2000</u>	Head Space: _____	Signature: <u>Xinggang Tong</u>	Signature: <u>Carol</u>	Signature: _____
PO#: _____	Temp: _____	Printed Name: _____	Printed Name: _____	Printed Name: _____
Credit Card#: _____	Conforms to record: _____	Date: <u>8/31/10</u>	Date: <u>8/31/10</u>	Date: _____
Other: _____		Company: <u>OTG</u>	Company: _____	Company: _____
TAT: <u>5</u> Day, 3 Day, 2 Day, 1 Day		1) Received by: <u>[Signature]</u> <u>5:05 P</u>	2) Received by: <u>Joan Muller</u> <u>1748</u>	3) Received by: _____
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input checked="" type="checkbox"/> State Tank Fund EDF		Signature: <u>Carol</u>	Signature: <u>Muller</u>	Signature: _____
Special Instructions / Comments: <u>require EDF</u>		Printed Name: _____	Printed Name: _____	Printed Name: _____
Global ID: <u>SLT19761201</u> Log Code: <u>OTGO</u>		Date: <u>8/31/10</u>	Date: <u>8-31-10</u>	Date: _____
Harry Sidhu Quote on 6/4/10 for OTG Oakland site		Company: _____	Company: <u>Test America</u>	Company: _____

See Terms and Conditions on reverse  
 \*TestAmerica SF reports 8015M from C<sub>9</sub>-C<sub>24</sub> (industry norm). Default for 8015B is C<sub>10</sub>-C<sub>28</sub>

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## Login Sample Receipt Check List

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30218-1

**Login Number: 30218**

**List Source: TestAmerica San Francisco**

**Creator: Mullen, Joan**

**List Number: 1**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## ANALYTICAL REPORT

Job Number: 720-30248-1

Job Description: B112-Oakland

For:

OTG EnviroEngineering Solutions, Inc.

7700 Edgewater Drive

Suite 260

Oakland, CA 94621

Attention: Mr. Xinggang Tong



Approved for release.  
Afsaneh Salimpour  
Project Manager I  
9/9/2010 5:31 PM

---

Afsaneh Salimpour  
Project Manager I  
afsaneh.salimpour@testamericainc.com  
09/09/2010

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-30248-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 77469 exceeded control limits for the following analytes: 1,2-dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30248-2</b>	<b>ASB-3-10</b>				
Diesel Range Organics [C10-C28]		15	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		83	49	mg/Kg	8015B
<b>720-30248-11</b>	<b>ASB-5-15</b>				
Diesel Range Organics [C10-C28]		1.4	0.99	mg/Kg	8015B
<b>720-30248-14</b>	<b>ASB-7-15</b>				
Gasoline Range Organics (GRO)-C5-C12		390	250	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		1.4	0.99	mg/Kg	8015B
<b>720-30248-16</b>	<b>ASB-4-W</b>				
Gasoline Range Organics (GRO)-C5-C12		2800	500	ug/L	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		6500	250	ug/L	8015B
<b>720-30248-17</b>	<b>ASB-4-WD</b>				
Gasoline Range Organics (GRO)-C5-C12		2900	500	ug/L	8260B/CA_LUFTMS
<b>720-30248-18</b>	<b>ASB-6-5</b>				
Diesel Range Organics [C10-C28]		140	9.8	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		890	490	mg/Kg	8015B
<b>720-30248-19</b>	<b>ASB-6-10</b>				
Diesel Range Organics [C10-C28]		4.2	0.99	mg/Kg	8015B
<b>720-30248-20</b>	<b>ASB-6-15</b>				
Gasoline Range Organics (GRO)-C5-C12		110000	24000	ug/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		26	0.99	mg/Kg	8015B
<b>720-30248-24</b>	<b>ASB-4-5</b>				
Diesel Range Organics [C10-C28]		8.1	0.99	mg/Kg	8015B

## EXECUTIVE SUMMARY - Detections

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-30248-25</b> Diesel Range Organics [C10-C28]	<b>ASB-4-10</b>	1.9	0.99	mg/Kg	8015B
<b>720-30248-26</b> Gasoline Range Organics (GRO)-C5-C12 Diesel Range Organics [C10-C28]	<b>ASB-4-15</b>	16000 30	1200 0.99	ug/Kg mg/Kg	8260B/CA_LUFTMS 8015B

## METHOD SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
<b>Matrix: Water</b>			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

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



## METHOD / ANALYST SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B/CA_LUFTMS	Chen, Amy	AC
SW846 8260B/CA_LUFTMS	Le, Lien	LL
SW846 8260B/CA_LUFTMS	Nguyen, Thuy M	TMN
SW846 8015B	Hayashi, Derek	DH

## SAMPLE SUMMARY

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-30248-1	ASB-3-5	Solid	09/01/2010 0830	09/01/2010 1538
720-30248-2	ASB-3-10	Solid	09/01/2010 0838	09/01/2010 1538
720-30248-3	ASB-3-15	Solid	09/01/2010 0845	09/01/2010 1538
720-30248-4	ASB-3-20	Solid	09/01/2010 0850	09/01/2010 1538
720-30248-5	MW-10-5	Solid	09/01/2010 0900	09/01/2010 1538
720-30248-6	MW-10-10	Solid	09/01/2010 0905	09/01/2010 1538
720-30248-7	MW-10-15	Solid	09/01/2010 0910	09/01/2010 1538
720-30248-8	MW-10-20	Solid	09/01/2010 0930	09/01/2010 1538
720-30248-9	ASB-5-5	Solid	09/01/2010 1000	09/01/2010 1538
720-30248-10	ASB-5-10	Solid	09/01/2010 1010	09/01/2010 1538
720-30248-11	ASB-5-15	Solid	09/01/2010 1015	09/01/2010 1538
720-30248-12	ASB-5-20	Solid	09/01/2010 1020	09/01/2010 1538
720-30248-13	ASB-7-10	Solid	09/01/2010 1050	09/01/2010 1538
720-30248-14	ASB-7-15	Solid	09/01/2010 1100	09/01/2010 1538
720-30248-15	ASB-7-20	Solid	09/01/2010 1110	09/01/2010 1538
720-30248-16	ASB-4-W	Water	09/01/2010 1240	09/01/2010 1538
720-30248-17	ASB-4-Wd	Water	09/01/2010 1240	09/01/2010 1538
720-30248-18	ASB-6-5	Solid	09/01/2010 1125	09/01/2010 1538
720-30248-19	ASB-6-10	Solid	09/01/2010 1130	09/01/2010 1538
720-30248-20	ASB-6-15	Solid	09/01/2010 1135	09/01/2010 1538
720-30248-21	ASB-6-20	Solid	09/01/2010 1140	09/01/2010 1538
720-30248-22	ASB-6-27	Solid	09/01/2010 1150	09/01/2010 1538
720-30248-23TB	TB-3	Water	09/01/2010 0000	09/01/2010 1538
720-30248-24	ASB-4-5	Solid	09/01/2010 1205	09/01/2010 1538
720-30248-25	ASB-4-10	Solid	09/01/2010 1210	09/01/2010 1538
720-30248-26	ASB-4-15	Solid	09/01/2010 1215	09/01/2010 1538
720-30248-27	ASB-4-20	Solid	09/01/2010 1225	09/01/2010 1538

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-5**

Lab Sample ID: 720-30248-1

Date Sampled: 09/01/2010 0830

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77407      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77431      Lab File ID: 09021038.D  
Dilution: 1.0      Initial Weight/Volume: 5.16 g  
Date Analyzed: 09/03/2010 0257      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	97		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-10**

Lab Sample ID: 720-30248-2

Date Sampled: 09/01/2010 0838

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77407      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77431      Lab File ID: 09021039.D  
Dilution: 1.0      Initial Weight/Volume: 5.05 g  
Date Analyzed: 09/03/2010 0327      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	130		60 - 140
Toluene-d8 (Surr)	95		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-15**

Lab Sample ID: 720-30248-3

Date Sampled: 09/01/2010 0845

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77407	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77431	Lab File ID:	09021040.D
Dilution:	1.0		Initial Weight/Volume:	5.11 g
Date Analyzed:	09/03/2010 0357		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.8
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		52 - 140
1,2-Dichloroethane-d4 (Surr)	120		60 - 140
Toluene-d8 (Surr)	96		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-20**

Lab Sample ID: 720-30248-4

Date Sampled: 09/01/2010 0850

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77407	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77431	Lab File ID:	09021041.D
Dilution:	1.0		Initial Weight/Volume:	5.07 g
Date Analyzed:	09/03/2010 0427		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	123		60 - 140
Toluene-d8 (Surr)	95		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-5**

Lab Sample ID: 720-30248-5

Date Sampled: 09/01/2010 0900

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77407	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77431	Lab File ID:	09021042.D
Dilution:	1.0		Initial Weight/Volume:	4.98 g
Date Analyzed:	09/03/2010 0457		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	84		52 - 140
1,2-Dichloroethane-d4 (Surr)	127		60 - 140
Toluene-d8 (Surr)	93		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-10**

Lab Sample ID: 720-30248-6

Date Sampled: 09/01/2010 0905

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77468      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77525      Lab File ID: 09031030.D  
Dilution: 1.0      Initial Weight/Volume: 5.17 g  
Date Analyzed: 09/04/2010 0019      Final Weight/Volume: 10 mL  
Date Prepared: 09/03/2010 1412

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	75		52 - 140
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	90		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-15**

Lab Sample ID: 720-30248-7

Date Sampled: 09/01/2010 0910

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77407      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77431      Lab File ID: 09021043.D  
Dilution: 1.0      Initial Weight/Volume: 5.04 g  
Date Analyzed: 09/03/2010 0526      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	96		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-20**

Lab Sample ID: 720-30248-8

Date Sampled: 09/01/2010 0930

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021029.D
Dilution:	1.0		Initial Weight/Volume:	5.05 g
Date Analyzed:	09/03/2010 0009		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		52 - 140
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	90		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-5**

Lab Sample ID: 720-30248-9

Date Sampled: 09/01/2010 1000

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77407	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77431	Lab File ID:	09021044.D
Dilution:	1.0		Initial Weight/Volume:	5.32 g
Date Analyzed:	09/03/2010 0556		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1700			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.7
Ethylbenzene		ND		4.7
Toluene		ND		4.7
Xylenes, Total		ND		9.4
Gasoline Range Organics (GRO)-C5-C12		ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	127		60 - 140
Toluene-d8 (Surr)	94		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-10**

Lab Sample ID: 720-30248-10

Date Sampled: 09/01/2010 1010

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77407      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77431      Lab File ID: 09021045.D  
Dilution: 1.0      Initial Weight/Volume: 5.06 g  
Date Analyzed: 09/03/2010 0626      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.9
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		9.9
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	77		52 - 140
1,2-Dichloroethane-d4 (Surr)	125		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-15**

Lab Sample ID: 720-30248-11

Date Sampled: 09/01/2010 1015

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77407      Instrument ID: HP12  
Preparation: 5030B      Prep Batch: 720-77431      Lab File ID: 09021046.D  
Dilution: 1.0      Initial Weight/Volume: 4.95 g  
Date Analyzed: 09/03/2010 0656      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1700

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.1
Benzene		ND		5.1
Ethylene Dibromide		ND		5.1
1,2-Dichloroethane		ND		5.1
Ethylbenzene		ND		5.1
Toluene		ND		5.1
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		10
DIPE		ND		5.1
TAME		ND		5.1
Ethyl t-butyl ether		ND		5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	96		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-20**

Lab Sample ID: 720-30248-12

Date Sampled: 09/01/2010 1020

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021032.D
Dilution:	1.0		Initial Weight/Volume:	5.16 g
Date Analyzed:	09/03/2010 0151		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-10**

Lab Sample ID: 720-30248-13

Date Sampled: 09/01/2010 1050

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021033.D
Dilution:	1.0		Initial Weight/Volume:	5.12 g
Date Analyzed:	09/03/2010 0225		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.8
Gasoline Range Organics (GRO)-C5-C12		ND		240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	64		52 - 140
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	85		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-15**

Lab Sample ID: 720-30248-14

Date Sampled: 09/01/2010 1100

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77408      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77433      Lab File ID: 09021034.D  
Dilution: 1.0      Initial Weight/Volume: 4.96 g  
Date Analyzed: 09/03/2010 0259      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		390		250
TBA		ND		10
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		52 - 140
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	99		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-20**

Lab Sample ID: 720-30248-15

Date Sampled: 09/01/2010 1110

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021035.D
Dilution:	1.0		Initial Weight/Volume:	5.13 g
Date Analyzed:	09/03/2010 0333		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		52 - 140
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	91		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-W**

Lab Sample ID: 720-30248-16

Date Sampled: 09/01/2010 1240

Client Matrix: Water

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77469      Instrument ID: HP12  
Preparation: 5030B      Lab File ID: 09031041.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 09/04/2010 0429      Final Weight/Volume: 10 mL  
Date Prepared: 09/04/2010 0429

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND	*	5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	2800		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	127		67 - 130
Toluene-d8 (Surr)	99		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-Wd**

Lab Sample ID: 720-30248-17

Date Sampled: 09/01/2010 1240

Client Matrix: Water

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77469      Instrument ID: HP12  
Preparation: 5030B      Lab File ID: 09031042.D  
Dilution: 10      Initial Weight/Volume: 10 mL  
Date Analyzed: 09/04/2010 0459      Final Weight/Volume: 10 mL  
Date Prepared: 09/04/2010 0459

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND	*	5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	2900		500
TBA	ND		40
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	129		67 - 130
Toluene-d8 (Surr)	101		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-5**

Lab Sample ID: 720-30248-18

Date Sampled: 09/01/2010 1125

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021036.D
Dilution:	1.0		Initial Weight/Volume:	4.96 g
Date Analyzed:	09/03/2010 0407		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	73		52 - 140
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	87		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-10**

Lab Sample ID: 720-30248-19

Date Sampled: 09/01/2010 1130

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77408      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77433      Lab File ID: 09021037.D  
Dilution: 1.0      Initial Weight/Volume: 5.14 g  
Date Analyzed: 09/03/2010 0441      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Benzene		ND		4.9
Ethylene Dibromide		ND		4.9
1,2-Dichloroethane		ND		4.9
Ethylbenzene		ND		4.9
Toluene		ND		4.9
Xylenes, Total		ND		9.7
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.7
DIPE		ND		4.9
TAME		ND		4.9
Ethyl t-butyl ether		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	76		52 - 140
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	84		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-15**

Lab Sample ID: 720-30248-20

Date Sampled: 09/01/2010 1135

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021038.D
Dilution:	1.0		Initial Weight/Volume:	5.04 g
Date Analyzed:	09/03/2010 0515		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		9.9
TBA		ND		9.9
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	118		52 - 140
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	112		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-15**

Lab Sample ID: 720-30248-20

Date Sampled: 09/01/2010 1135

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77483	Instrument ID:	HP12
Preparation:	5030B	Prep Batch: 720-77623	Lab File ID:	09071007.D
Dilution:	100		Initial Weight/Volume:	10.49 g
Date Analyzed:	09/07/2010 1156		Final Weight/Volume:	10 mL
Date Prepared:	09/07/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		110000		24000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	120		66 - 148
1,2-Dichloroethane-d4 (Surr)	123		62 - 137
Toluene-d8 (Surr)	107		65 - 141

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-20**

Lab Sample ID: 720-30248-21

Date Sampled: 09/01/2010 1140

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77408      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77433      Lab File ID: 09021039.D  
Dilution: 1.0      Initial Weight/Volume: 4.95 g  
Date Analyzed: 09/03/2010 0549      Final Weight/Volume: 10 mL  
Date Prepared: 09/02/2010 1900

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.1
Benzene		ND		5.1
Ethylene Dibromide		ND		5.1
1,2-Dichloroethane		ND		5.1
Ethylbenzene		ND		5.1
Toluene		ND		5.1
Xylenes, Total		ND		10
TBA		ND		10
DIPE		ND		5.1
TAME		ND		5.1
Ethyl t-butyl ether		ND		5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	76		60 - 140
Toluene-d8 (Surr)	97		58 - 140



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-20**

Lab Sample ID: 720-30248-21

Date Sampled: 09/01/2010 1140

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77424	Instrument ID:	HP4
Preparation:	5030B	Prep Batch: 720-77505	Lab File ID:	090310011.D
Dilution:	1.0		Initial Weight/Volume:	5.34 g
Date Analyzed:	09/03/2010 1405		Final Weight/Volume:	10 mL
Date Prepared:	09/03/2010 0800			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		52 - 140
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	92		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-27**

Lab Sample ID: 720-30248-22

Date Sampled: 09/01/2010 1150

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021040.D
Dilution:	1.0		Initial Weight/Volume:	5.01 g
Date Analyzed:	09/03/2010 0623		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		52 - 140
1,2-Dichloroethane-d4 (Surr)	81		60 - 140
Toluene-d8 (Surr)	90		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: TB-3**

Lab Sample ID: 720-30248-23TB

Date Sampled: 09/01/2010 0000

Client Matrix: Water

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77469      Instrument ID: HP12  
Preparation: 5030B      Lab File ID: 09031029.D  
Dilution: 1.0      Initial Weight/Volume: 10 mL  
Date Analyzed: 09/03/2010 2231      Final Weight/Volume: 10 mL  
Date Prepared: 09/03/2010 2231

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND	*	0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	130		67 - 130
Toluene-d8 (Surr)	97		70 - 130

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-5**

Lab Sample ID: 720-30248-24

Date Sampled: 09/01/2010 1205

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-77408	Instrument ID:	HP7
Preparation:	5030B	Prep Batch: 720-77433	Lab File ID:	09021041.D
Dilution:	1.0		Initial Weight/Volume:	5.00 g
Date Analyzed:	09/03/2010 0657		Final Weight/Volume:	10 mL
Date Prepared:	09/02/2010 1900			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	70		52 - 140
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
Toluene-d8 (Surr)	87		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-10**

Lab Sample ID: 720-30248-25

Date Sampled: 09/01/2010 1210

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77468      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77525      Lab File ID: 09031031.D  
Dilution: 1.0      Initial Weight/Volume: 5.01 g  
Date Analyzed: 09/04/2010 0053      Final Weight/Volume: 10 mL  
Date Prepared: 09/03/2010 1412

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Benzene		ND		5.0
Ethylene Dibromide		ND		5.0
1,2-Dichloroethane		ND		5.0
Ethylbenzene		ND		5.0
Toluene		ND		5.0
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		250
TBA		ND		10
DIPE		ND		5.0
TAME		ND		5.0
Ethyl t-butyl ether		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	78		52 - 140
1,2-Dichloroethane-d4 (Surr)	112		60 - 140
Toluene-d8 (Surr)	86		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-15**

Lab Sample ID: 720-30248-26

Date Sampled: 09/01/2010 1215

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77468      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77525      Lab File ID: 09031032.D  
Dilution: 1.0      Initial Weight/Volume: 1 g  
Date Analyzed: 09/04/2010 0127      Final Weight/Volume: 10 mL  
Date Prepared: 09/03/2010 1412

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		25
Benzene		ND		25
Ethylene Dibromide		ND		25
1,2-Dichloroethane		ND		25
Ethylbenzene		ND		25
Toluene		ND		25
Xylenes, Total		ND		50
Gasoline Range Organics (GRO)-C5-C12		16000		1200
TBA		ND		50
DIPE		ND		25
TAME		ND		25
Ethyl t-butyl ether		ND		25

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	108		52 - 140
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	108		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-20**

Lab Sample ID: 720-30248-27

Date Sampled: 09/01/2010 1225

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8260B/CA\_LUFTMS 8260B / CA LUFT MS

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-77468      Instrument ID: HP7  
Preparation: 5030B      Prep Batch: 720-77525      Lab File ID: 09031035.D  
Dilution: 1.0      Initial Weight/Volume: 5.20 g  
Date Analyzed: 09/04/2010 0309      Final Weight/Volume: 10 mL  
Date Prepared: 09/03/2010 1412

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Benzene		ND		4.8
Ethylene Dibromide		ND		4.8
1,2-Dichloroethane		ND		4.8
Ethylbenzene		ND		4.8
Toluene		ND		4.8
Xylenes, Total		ND		9.6
Gasoline Range Organics (GRO)-C5-C12		ND		240
TBA		ND		9.6
DIPE		ND		4.8
TAME		ND		4.8
Ethyl t-butyl ether		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	80		60 - 140
Toluene-d8 (Surr)	94		58 - 140

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-5**

Lab Sample ID: 720-30248-1

Date Sampled: 09/01/2010 0830

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77507	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77354	Initial Weight/Volume:	30.31 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/07/2010 1226		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0921		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	94		31 - 114



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-10**

Lab Sample ID: 720-30248-2

Date Sampled: 09/01/2010 0838

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77488	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.43 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/07/2010 0957		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		15		0.99
Motor Oil Range Organics [C24-C36]		83		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	58		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-15**

Lab Sample ID: 720-30248-3

Date Sampled: 09/01/2010 0845

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.15 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2023		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	79		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-3-20**

Lab Sample ID: 720-30248-4

Date Sampled: 09/01/2010 0850

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.11 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2133		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	94		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-5**

Lab Sample ID: 720-30248-5

Date Sampled: 09/01/2010 0900

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.10 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2156		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	93		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-10**

Lab Sample ID: 720-30248-6

Date Sampled: 09/01/2010 0905

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77507	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77401	Initial Weight/Volume:	30.30 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/07/2010 1841		Injection Volume:	1 uL
Date Prepared:	09/02/2010 1715		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	104		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-15**

Lab Sample ID: 720-30248-7

Date Sampled: 09/01/2010 0910

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.23 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2220		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	82		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: MW-10-20**

Lab Sample ID: 720-30248-8

Date Sampled: 09/01/2010 0930

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.05 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 2243		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	84		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-5**

Lab Sample ID: 720-30248-9

Date Sampled: 09/01/2010 1000

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.00 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0016		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	84		31 - 114



# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-10**

Lab Sample ID: 720-30248-10

Date Sampled: 09/01/2010 1010

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.32 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0040		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	85		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-15**

Lab Sample ID: 720-30248-11

Date Sampled: 09/01/2010 1015

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.34 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0103		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.4		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	87		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-5-20**

Lab Sample ID: 720-30248-12

Date Sampled: 09/01/2010 1020

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.27 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0127		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-10**

Lab Sample ID: 720-30248-13

Date Sampled: 09/01/2010 1050

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.29 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0150		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	92		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-15**

Lab Sample ID: 720-30248-14

Date Sampled: 09/01/2010 1100

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.45 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0213		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.4		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-7-20**

Lab Sample ID: 720-30248-15

Date Sampled: 09/01/2010 1110

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.17 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0237		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-W**

Lab Sample ID: 720-30248-16

Date Sampled: 09/01/2010 1240

Client Matrix: Water

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3510C	Prep Batch: 720-77382	Initial Weight/Volume:	980 mL
Dilution:	5.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/03/2010 1212		Injection Volume:	1 uL
Date Prepared:	09/02/2010 1418		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	6500		250
Motor Oil Range Organics [C24-C36]	ND		1500

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	90		23 - 156

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-5**

Lab Sample ID: 720-30248-18

Date Sampled: 09/01/2010 1125

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77488	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.47 g
Dilution:	10		Final Weight/Volume:	2 mL
Date Analyzed:	09/07/2010 1146		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		140		9.8
Motor Oil Range Organics [C24-C36]		890		490

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	38		31 - 114



## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-10**

Lab Sample ID: 720-30248-19

Date Sampled: 09/01/2010 1130

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.41 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0300		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		4.2		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-15**

Lab Sample ID: 720-30248-20

Date Sampled: 09/01/2010 1135

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.26 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0323		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		26		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	98		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-20**

Lab Sample ID: 720-30248-21

Date Sampled: 09/01/2010 1140

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.34 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0347		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	95		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-6-27**

Lab Sample ID: 720-30248-22

Date Sampled: 09/01/2010 1150

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.37 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0410		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	89		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-5**

Lab Sample ID: 720-30248-24

Date Sampled: 09/01/2010 1205

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.22 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0433		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		8.1		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	77		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-10**

Lab Sample ID: 720-30248-25

Date Sampled: 09/01/2010 1210

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77421	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77356	Initial Weight/Volume:	30.33 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/04/2010 0457		Injection Volume:	1 uL
Date Prepared:	09/02/2010 0927		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.9		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	87		31 - 114

## Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-15**

Lab Sample ID: 720-30248-26

Date Sampled: 09/01/2010 1215

Client Matrix: Solid

Date Received: 09/01/2010 1538

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### 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77507	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-77401	Initial Weight/Volume:	30.39 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/07/2010 1927		Injection Volume:	1 uL
Date Prepared:	09/02/2010 1715		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		30		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	100		31 - 114

# Analytical Data

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Client Sample ID: ASB-4-20**

Lab Sample ID: 720-30248-27

Date Sampled: 09/01/2010 1225

Client Matrix: Solid

Date Received: 09/01/2010 1538

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## 8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-77649	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-77606	Initial Weight/Volume:	30.31 g
Dilution:	1.0		Final Weight/Volume:	2 mL
Date Analyzed:	09/09/2010 0942		Injection Volume:	1 uL
Date Prepared:	09/08/2010 1340		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	103		31 - 114



## DATA REPORTING QUALIFIERS

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA	*	LCS or LCSD exceeds the control limits

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77407</b>					
LCS 720-77431/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77431
LCS 720-77431/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77431
LCSD 720-77431/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77431
LCSD 720-77431/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77431
MB 720-77431/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77431
720-30248-1	ASB-3-5	T	Solid	8260B/CA_LUFT	720-77431
720-30248-2	ASB-3-10	T	Solid	8260B/CA_LUFT	720-77431
720-30248-3	ASB-3-15	T	Solid	8260B/CA_LUFT	720-77431
720-30248-4	ASB-3-20	T	Solid	8260B/CA_LUFT	720-77431
720-30248-5	MW-10-5	T	Solid	8260B/CA_LUFT	720-77431
720-30248-7	MW-10-15	T	Solid	8260B/CA_LUFT	720-77431
720-30248-9	ASB-5-5	T	Solid	8260B/CA_LUFT	720-77431
720-30248-10	ASB-5-10	T	Solid	8260B/CA_LUFT	720-77431
720-30248-11	ASB-5-15	T	Solid	8260B/CA_LUFT	720-77431
<b>Analysis Batch:720-77408</b>					
LCS 720-77433/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77433
LCS 720-77433/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77433
LCSD 720-77433/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77433
LCSD 720-77433/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77433
MB 720-77433/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77433
720-30248-8	MW-10-20	T	Solid	8260B/CA_LUFT	720-77433
720-30248-8MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77433
720-30248-8MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77433
720-30248-12	ASB-5-20	T	Solid	8260B/CA_LUFT	720-77433
720-30248-13	ASB-7-10	T	Solid	8260B/CA_LUFT	720-77433
720-30248-14	ASB-7-15	T	Solid	8260B/CA_LUFT	720-77433
720-30248-15	ASB-7-20	T	Solid	8260B/CA_LUFT	720-77433
720-30248-18	ASB-6-5	T	Solid	8260B/CA_LUFT	720-77433
720-30248-19	ASB-6-10	T	Solid	8260B/CA_LUFT	720-77433
720-30248-20	ASB-6-15	T	Solid	8260B/CA_LUFT	720-77433
720-30248-21	ASB-6-20	T	Solid	8260B/CA_LUFT	720-77433
720-30248-22	ASB-6-27	T	Solid	8260B/CA_LUFT	720-77433
720-30248-24	ASB-4-5	T	Solid	8260B/CA_LUFT	720-77433
<b>Analysis Batch:720-77424</b>					
LCS 720-77505/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77505
LCS 720-77505/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77505
LCSD 720-77505/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77505
LCSD 720-77505/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77505
MB 720-77505/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77505
720-30248-21	ASB-6-20	T	Solid	8260B/CA_LUFT	720-77505

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77431</b>					
LCS 720-77431/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77431/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77431/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77431/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77431/1-A	Method Blank	T	Solid	5030B	
720-30248-1	ASB-3-5	T	Solid	5030B	
720-30248-2	ASB-3-10	T	Solid	5030B	
720-30248-3	ASB-3-15	T	Solid	5030B	
720-30248-4	ASB-3-20	T	Solid	5030B	
720-30248-5	MW-10-5	T	Solid	5030B	
720-30248-7	MW-10-15	T	Solid	5030B	
720-30248-9	ASB-5-5	T	Solid	5030B	
720-30248-10	ASB-5-10	T	Solid	5030B	
720-30248-11	ASB-5-15	T	Solid	5030B	
<b>Prep Batch: 720-77433</b>					
LCS 720-77433/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77433/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77433/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77433/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77433/1-A	Method Blank	T	Solid	5030B	
720-30248-8	MW-10-20	T	Solid	5030B	
720-30248-8MS	Matrix Spike	T	Solid	5030B	
720-30248-8MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-30248-12	ASB-5-20	T	Solid	5030B	
720-30248-13	ASB-7-10	T	Solid	5030B	
720-30248-14	ASB-7-15	T	Solid	5030B	
720-30248-15	ASB-7-20	T	Solid	5030B	
720-30248-18	ASB-6-5	T	Solid	5030B	
720-30248-19	ASB-6-10	T	Solid	5030B	
720-30248-20	ASB-6-15	T	Solid	5030B	
720-30248-21	ASB-6-20	T	Solid	5030B	
720-30248-22	ASB-6-27	T	Solid	5030B	
720-30248-24	ASB-4-5	T	Solid	5030B	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-77468</b>					
LCS 720-77525/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77525
LCS 720-77525/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77525
LCSD 720-77525/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77525
LCSD 720-77525/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77525
MB 720-77525/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77525
720-30248-6	MW-10-10	T	Solid	8260B/CA_LUFT	720-77525
720-30248-25	ASB-4-10	T	Solid	8260B/CA_LUFT	720-77525
720-30248-26	ASB-4-15	T	Solid	8260B/CA_LUFT	720-77525
720-30248-27	ASB-4-20	T	Solid	8260B/CA_LUFT	720-77525
720-30248-27MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-77525
720-30248-27MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-77525
<b>Analysis Batch:720-77469</b>					
LCS 720-77469/5	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCS 720-77469/7	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-77469/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
LCSD 720-77469/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-77469/4	Method Blank	T	Water	8260B/CA_LUFT	
720-30248-16	ASB-4-W	T	Water	8260B/CA_LUFT	
720-30248-17	ASB-4-Wd	T	Water	8260B/CA_LUFT	
720-30248-23TB	TB-3	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-77483</b>					
LCS 720-77623/5-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-77623
LCSD 720-77623/6-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-77623
720-30248-20	ASB-6-15	T	Solid	8260B/CA_LUFT	720-77623
<b>Analysis Batch:720-77485</b>					
MB 720-77623/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-77623
<b>Prep Batch: 720-77505</b>					
LCS 720-77505/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77505/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77505/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77505/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77505/1-A	Method Blank	T	Solid	5030B	
720-30248-21	ASB-6-20	T	Solid	5030B	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 720-77525</b>					
LCS 720-77525/2-A	Lab Control Sample	T	Solid	5030B	
LCS 720-77525/4-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77525/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 720-77525/5-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77525/1-A	Method Blank	T	Solid	5030B	
720-30248-6	MW-10-10	T	Solid	5030B	
720-30248-25	ASB-4-10	T	Solid	5030B	
720-30248-26	ASB-4-15	T	Solid	5030B	
720-30248-27	ASB-4-20	T	Solid	5030B	
720-30248-27MS	Matrix Spike	T	Solid	5030B	
720-30248-27MSD	Matrix Spike Duplicate	T	Solid	5030B	
<b>Prep Batch: 720-77623</b>					
LCS 720-77623/5-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-77623/6-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-77623/1-A	Method Blank	T	Solid	5030B	
720-30248-20	ASB-6-15	T	Solid	5030B	

#### Report Basis

T = Total

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-77354</b>					
LCS 720-77354/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77354/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77354/1-A	Method Blank	T	Solid	3550B	
720-30248-1	ASB-3-5	T	Solid	3550B	
<b>Prep Batch: 720-77356</b>					
LCS 720-77356/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77356/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77356/1-A	Method Blank	T	Solid	3550B	
720-30248-2	ASB-3-10	T	Solid	3550B	
720-30248-3	ASB-3-15	T	Solid	3550B	
720-30248-3MS	Matrix Spike	T	Solid	3550B	
720-30248-3MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-30248-4	ASB-3-20	T	Solid	3550B	
720-30248-5	MW-10-5	T	Solid	3550B	
720-30248-7	MW-10-15	T	Solid	3550B	
720-30248-8	MW-10-20	T	Solid	3550B	
720-30248-9	ASB-5-5	T	Solid	3550B	
720-30248-10	ASB-5-10	T	Solid	3550B	
720-30248-11	ASB-5-15	T	Solid	3550B	
720-30248-12	ASB-5-20	T	Solid	3550B	
720-30248-13	ASB-7-10	T	Solid	3550B	
720-30248-14	ASB-7-15	T	Solid	3550B	
720-30248-15	ASB-7-20	T	Solid	3550B	
720-30248-18	ASB-6-5	T	Solid	3550B	
720-30248-19	ASB-6-10	T	Solid	3550B	
720-30248-20	ASB-6-15	T	Solid	3550B	
720-30248-21	ASB-6-20	T	Solid	3550B	
720-30248-22	ASB-6-27	T	Solid	3550B	
720-30248-24	ASB-4-5	T	Solid	3550B	
720-30248-25	ASB-4-10	T	Solid	3550B	
<b>Prep Batch: 720-77382</b>					
LCS 720-77382/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-77382/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-77382/1-A	Method Blank	T	Water	3510C	
720-30248-16	ASB-4-W	T	Water	3510C	
<b>Prep Batch: 720-77401</b>					
LCS 720-77401/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77401/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77401/1-A	Method Blank	T	Solid	3550B	
720-30248-6	MW-10-10	T	Solid	3550B	
720-30248-26	ASB-4-15	T	Solid	3550B	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-77418</b>					
LCS 720-77354/2-A	Lab Control Sample	T	Solid	8015B	720-77354
LCSD 720-77354/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77354
MB 720-77354/1-A	Method Blank	T	Solid	8015B	720-77354
<b>Analysis Batch:720-77421</b>					
LCS 720-77382/2-A	Lab Control Sample	T	Water	8015B	720-77382
LCSD 720-77382/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-77382
MB 720-77382/1-A	Method Blank	T	Water	8015B	720-77382
LCS 720-77401/2-A	Lab Control Sample	T	Solid	8015B	720-77401
LCSD 720-77401/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77401
MB 720-77401/1-A	Method Blank	T	Solid	8015B	720-77401
720-30248-3	ASB-3-15	T	Solid	8015B	720-77356
720-30248-3MS	Matrix Spike	T	Solid	8015B	720-77356
720-30248-3MSD	Matrix Spike Duplicate	T	Solid	8015B	720-77356
720-30248-4	ASB-3-20	T	Solid	8015B	720-77356
720-30248-5	MW-10-5	T	Solid	8015B	720-77356
720-30248-7	MW-10-15	T	Solid	8015B	720-77356
720-30248-8	MW-10-20	T	Solid	8015B	720-77356
720-30248-9	ASB-5-5	T	Solid	8015B	720-77356
720-30248-10	ASB-5-10	T	Solid	8015B	720-77356
720-30248-11	ASB-5-15	T	Solid	8015B	720-77356
720-30248-12	ASB-5-20	T	Solid	8015B	720-77356
720-30248-13	ASB-7-10	T	Solid	8015B	720-77356
720-30248-14	ASB-7-15	T	Solid	8015B	720-77356
720-30248-15	ASB-7-20	T	Solid	8015B	720-77356
720-30248-16	ASB-4-W	T	Water	8015B	720-77382
720-30248-19	ASB-6-10	T	Solid	8015B	720-77356
720-30248-20	ASB-6-15	T	Solid	8015B	720-77356
720-30248-21	ASB-6-20	T	Solid	8015B	720-77356
720-30248-22	ASB-6-27	T	Solid	8015B	720-77356
720-30248-24	ASB-4-5	T	Solid	8015B	720-77356
720-30248-25	ASB-4-10	T	Solid	8015B	720-77356
<b>Analysis Batch:720-77488</b>					
LCS 720-77356/2-A	Lab Control Sample	T	Solid	8015B	720-77356
LCSD 720-77356/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77356
MB 720-77356/1-A	Method Blank	T	Solid	8015B	720-77356
720-30248-2	ASB-3-10	T	Solid	8015B	720-77356
720-30248-18	ASB-6-5	T	Solid	8015B	720-77356
<b>Analysis Batch:720-77507</b>					
720-30248-1	ASB-3-5	T	Solid	8015B	720-77354
720-30248-6	MW-10-10	T	Solid	8015B	720-77401
720-30248-26	ASB-4-15	T	Solid	8015B	720-77401

TestAmerica San Francisco

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-77606</b>					
LCS 720-77606/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-77606/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-77606/1-A	Method Blank	T	Solid	3550B	
720-30248-27	ASB-4-20	T	Solid	3550B	
<b>Analysis Batch:720-77648</b>					
LCS 720-77606/2-A	Lab Control Sample	T	Solid	8015B	720-77606
LCSD 720-77606/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-77606
MB 720-77606/1-A	Method Blank	T	Solid	8015B	720-77606
<b>Analysis Batch:720-77649</b>					
720-30248-27	ASB-4-20	T	Solid	8015B	720-77606

#### Report Basis

T = Total



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### Method Blank - Batch: 720-77431

Method: 8260B/CA\_LUFTMS  
Preparation: 5030B

Lab Sample ID: MB 720-77431/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2228  
Date Prepared: 09/02/2010 1700

Analysis Batch: 720-77407  
Prep Batch: 720-77431  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09021029.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	52 - 140
1,2-Dichloroethane-d4 (Surr)	122	60 - 140
Toluene-d8 (Surr)	99	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77431**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77431/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2029  
Date Prepared: 09/02/2010 1700

Analysis Batch: 720-77407  
Prep Batch: 720-77431  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09021025.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77431/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2058  
Date Prepared: 09/02/2010 1700

Analysis Batch: 720-77407  
Prep Batch: 720-77431  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09021026.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	113	111	71 - 144	2	20		
Benzene	91	92	82 - 124	0	20		
Ethylene Dibromide	117	113	79 - 140	4	20		
1,2-Dichloroethane	115	114	74 - 125	1	20		
Ethylbenzene	100	98	80 - 137	2	20		
Toluene	92	91	83 - 128	1	20		
m-Xylene & p-Xylene	98	96	79 - 146	2	20		
o-Xylene	100	98	84 - 140	2	20		
TBA	93	93	76 - 119	1	20		
DIPE	101	98	83 - 131	3	20		
TAME	120	117	74 - 140	2	20		
Ethyl t-butyl ether	110	107	76 - 129	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		101		52 - 140		
1,2-Dichloroethane-d4 (Surr)	118		116		60 - 140		
Toluene-d8 (Surr)	101		101		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77431**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77431/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2128  
Date Prepared: 09/02/2010 1700

Analysis Batch: 720-77407  
Prep Batch: 720-77431  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09021027.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77431/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2159  
Date Prepared: 09/02/2010 1700

Analysis Batch: 720-77407  
Prep Batch: 720-77431  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09021028.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	99	102	61 - 128	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	105		107			52 - 140	
1,2-Dichloroethane-d4 (Surr)	122		119			60 - 140	
Toluene-d8 (Surr)	102		101			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77433**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77433/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/02/2010 2335  
 Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
 Prep Batch: 720-77433  
 Units: ug/Kg

Instrument ID: HP7  
 Lab File ID: 09021028.D  
 Initial Weight/Volume: 5.00 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	91	52 - 140
1,2-Dichloroethane-d4 (Surr)	85	60 - 140
Toluene-d8 (Surr)	93	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77433**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77433/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2119  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09021024.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77433/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2153  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09021025.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	100	99	71 - 144	1	20		
Benzene	97	99	82 - 124	2	20		
Ethylene Dibromide	98	95	79 - 140	3	20		
1,2-Dichloroethane	76	76	74 - 125	1	20		
Ethylbenzene	103	106	80 - 137	3	20		
Toluene	101	105	83 - 128	3	20		
m-Xylene & p-Xylene	105	107	79 - 146	2	20		
o-Xylene	101	104	84 - 140	2	20		
TBA	76	79	76 - 119	3	20		
DIPE	86	89	83 - 131	3	20		
TAME	106	107	74 - 140	1	20		
Ethyl t-butyl ether	91	94	76 - 129	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	96		98		52 - 140		
1,2-Dichloroethane-d4 (Surr)	79		78		60 - 140		
Toluene-d8 (Surr)	98		97		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77433**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77433/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2227  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09021026.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77433/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/02/2010 2301  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09021027.D  
Initial Weight/Volume: 5.00 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	92	88	61 - 128	5	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	97		97			52 - 140	
1,2-Dichloroethane-d4 (Surr)	87		84			60 - 140	
Toluene-d8 (Surr)	101		99			58 - 140	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77433**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30248-8  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 0043  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433

Instrument ID: HP7  
Lab File ID: 09021030.D  
Initial Weight/Volume: 5.23 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30248-8  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 0117  
Date Prepared: 09/02/2010 1900

Analysis Batch: 720-77408  
Prep Batch: 720-77433

Instrument ID: HP7  
Lab File ID: 09021031.D  
Initial Weight/Volume: 5.28 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	97	101	69 - 130	3	20		
Benzene	98	99	70 - 130	0	20		
Ethylene Dibromide	94	94	66 - 135	1	20		
1,2-Dichloroethane	78	79	70 - 130	0	20		
Ethylbenzene	104	103	65 - 130	2	20		
Toluene	103	105	70 - 130	1	20		
m-Xylene & p-Xylene	106	105	70 - 130	2	20		
o-Xylene	104	103	68 - 130	2	20		
TBA	88	87	70 - 130	2	20		
DIPE	91	92	70 - 130	1	20		
TAME	100	104	70 - 130	2	20		
Ethyl t-butyl ether	94	95	70 - 130	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	94	52 - 140
1,2-Dichloroethane-d4 (Surr)	81	83	60 - 140
Toluene-d8 (Surr)	98	95	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77469**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77469/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/03/2010 2201  
 Date Prepared: 09/03/2010 2201

Analysis Batch: 720-77469  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: HP12  
 Lab File ID: 09031028.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Benzene	ND		0.50
Ethylene Dibromide	ND		0.50
1,2-Dichloroethane	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl t-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
4-Bromofluorobenzene	96	67 - 130	
1,2-Dichloroethane-d4 (Surr)	124	67 - 130	
Toluene-d8 (Surr)	97	70 - 130	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77469**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77469/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1947  
Date Prepared: 09/03/2010 1947

Analysis Batch: 720-77469  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP12  
Lab File ID: 09031024.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77469/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2030  
Date Prepared: 09/03/2010 2030

Analysis Batch: 720-77469  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP12  
Lab File ID: 09031025.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	107	119	62 - 130	10	20		
Benzene	96	102	82 - 127	6	20		
Ethylene Dibromide	110	121	70 - 130	9	20		
1,2-Dichloroethane	118	127	70 - 126	7	20		*
Ethylbenzene	105	110	86 - 135	5	20		
Toluene	96	101	83 - 129	5	20		
m-Xylene & p-Xylene	104	109	70 - 142	5	20		
o-Xylene	105	111	89 - 136	5	20		
TBA	104	104	82 - 116	0	20		
DIPE	99	107	74 - 155	7	20		
TAME	111	124	79 - 129	11	20		
Ethyl t-butyl ether	105	117	70 - 130	11	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	99		102		67 - 130		
1,2-Dichloroethane-d4 (Surr)	115		118		67 - 130		
Toluene-d8 (Surr)	101		100		70 - 130		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77469**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77469/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2100  
Date Prepared: 09/03/2010 2100

Analysis Batch: 720-77469  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP12  
Lab File ID: 09031026.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77469/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2131  
Date Prepared: 09/03/2010 2131

Analysis Batch: 720-77469  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HP12  
Lab File ID: 09031027.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	95	93	59 - 111	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	102		102			67 - 130	
1,2-Dichloroethane-d4 (Surr)	122		122			67 - 130	
Toluene-d8 (Surr)	99		99			70 - 130	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

### Method Blank - Batch: 720-77505

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Lab Sample ID: MB 720-77505/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1002  
Date Prepared: 09/03/2010 0800

Analysis Batch: 720-77424  
Prep Batch: 720-77505  
Units: ug/Kg

Instrument ID: HP4  
Lab File ID: 090310004.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	87	52 - 140
1,2-Dichloroethane-d4 (Surr)	97	60 - 140
Toluene-d8 (Surr)	88	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77505**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77505/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1138  
Date Prepared: 09/03/2010 0800

Analysis Batch: 720-77424  
Prep Batch: 720-77505  
Units: ug/Kg

Instrument ID: HP4  
Lab File ID: 090310007.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77505/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1210  
Date Prepared: 09/03/2010 0800

Analysis Batch: 720-77424  
Prep Batch: 720-77505  
Units: ug/Kg

Instrument ID: HP4  
Lab File ID: 090310008.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	87	88	61 - 128	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	96		98	52 - 140			
1,2-Dichloroethane-d4 (Surr)	99		99	60 - 140			
Toluene-d8 (Surr)	93		97	58 - 140			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77505**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77505/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1242  
Date Prepared: 09/03/2010 0800

Analysis Batch: 720-77424  
Prep Batch: 720-77505  
Units: ug/Kg

Instrument ID: HP4  
Lab File ID: 090310009.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77505/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1314  
Date Prepared: 09/03/2010 0800

Analysis Batch: 720-77424  
Prep Batch: 720-77505  
Units: ug/Kg

Instrument ID: HP4  
Lab File ID: 090310010.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	109	106	71 - 144	3	20		
Benzene	100	101	82 - 124	1	20		
Ethylene Dibromide	106	103	79 - 140	3	20		
1,2-Dichloroethane	103	100	74 - 125	3	20		
Ethylbenzene	107	108	80 - 137	1	20		
Toluene	105	106	83 - 128	1	20		
m-Xylene & p-Xylene	104	104	79 - 146	1	20		
o-Xylene	105	106	84 - 140	0	20		
TBA	94	100	76 - 119	6	20		
DIPE	108	108	83 - 131	0	20		
TAME	116	114	74 - 140	2	20		
Ethyl t-butyl ether	106	105	76 - 129	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	101		98		52 - 140		
1,2-Dichloroethane-d4 (Surr)	97		91		60 - 140		
Toluene-d8 (Surr)	98		96		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77525**

Lab Sample ID: MB 720-77525/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/03/2010 2311  
 Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
 Prep Batch: 720-77525  
 Units: ug/Kg

**Method: 8260B/CA\_LUFTMS  
 Preparation: 5030B**

Instrument ID: HP7  
 Lab File ID: 09031028.D  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Benzene	ND		5.0
Ethylene Dibromide	ND		5.0
1,2-Dichloroethane	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250
TBA	ND		10
DIPE	ND		5.0
TAME	ND		5.0
Ethyl t-butyl ether	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	89	52 - 140
1,2-Dichloroethane-d4 (Surr)	87	60 - 140
Toluene-d8 (Surr)	91	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77525**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77525/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2055  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09031024.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77525/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2129  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09031025.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methyl tert-butyl ether	118	121	71 - 144	3	20		
Benzene	105	107	82 - 124	1	20		
Ethylene Dibromide	113	115	79 - 140	2	20		
1,2-Dichloroethane	94	96	74 - 125	2	20		
Ethylbenzene	113	114	80 - 137	1	20		
Toluene	107	110	83 - 128	2	20		
m-Xylene & p-Xylene	115	117	79 - 146	1	20		
o-Xylene	113	115	84 - 140	1	20		
TBA	88	96	76 - 119	9	20		
DIPE	105	110	83 - 131	4	20		
TAME	120	125	74 - 140	4	20		
Ethyl t-butyl ether	110	114	76 - 129	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		103		52 - 140		
1,2-Dichloroethane-d4 (Surr)	91		92		60 - 140		
Toluene-d8 (Surr)	98		100		58 - 140		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77525**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77525/4-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2203  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09031026.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77525/5-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2237  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525  
Units: ug/Kg

Instrument ID: HP7  
Lab File ID: 09031027.D  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	88	91	61 - 128	3	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	96		98			52 - 140	
1,2-Dichloroethane-d4 (Surr)	87		91			60 - 140	
Toluene-d8 (Surr)	101		101			58 - 140	



## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77525**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-30248-27  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/04/2010 0201  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525

Instrument ID: HP7  
Lab File ID: 09031033.D  
Initial Weight/Volume: 5.06 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-30248-27  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/04/2010 0235  
Date Prepared: 09/03/2010 1412

Analysis Batch: 720-77468  
Prep Batch: 720-77525

Instrument ID: HP7  
Lab File ID: 09031034.D  
Initial Weight/Volume: 5.11 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methyl tert-butyl ether	114	105	69 - 130	9	20		
Benzene	113	108	70 - 130	5	20		
Ethylene Dibromide	111	102	66 - 135	10	20		
1,2-Dichloroethane	87	79	70 - 130	11	20		
Ethylbenzene	118	112	65 - 130	6	20		
Toluene	116	111	70 - 130	5	20		
m-Xylene & p-Xylene	120	113	70 - 130	7	20		
o-Xylene	116	110	68 - 130	6	20		
TBA	95	89	70 - 130	8	20		
DIPE	102	95	70 - 130	8	20		
TAME	123	114	70 - 130	9	20		
Ethyl t-butyl ether	107	99	70 - 130	9	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	96	52 - 140
1,2-Dichloroethane-d4 (Surr)	83	76	60 - 140
Toluene-d8 (Surr)	97	96	58 - 140

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77623**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-77623/1-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/07/2010 1605  
Date Prepared: 09/07/2010 1000

Analysis Batch: 720-77485  
Prep Batch: 720-77623  
Units: ug/Kg

Instrument ID: HP5  
Lab File ID: 090710014.D  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		25000
Surrogate	% Rec		Acceptance Limits
4-Bromofluorobenzene	98		66 - 148
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
Toluene-d8 (Surr)	96		65 - 141

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77623**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-77623/5-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/07/2010 1056  
Date Prepared: 09/07/2010 1000

Analysis Batch: 720-77483  
Prep Batch: 720-77623  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09071005.D  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-77623/6-A  
Client Matrix: Solid  
Dilution: 100  
Date Analyzed: 09/07/2010 1126  
Date Prepared: 09/07/2010 1000

Analysis Batch: 720-77483  
Prep Batch: 720-77623  
Units: ug/Kg

Instrument ID: HP12  
Lab File ID: 09071006.D  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	91	94	70 - 130	2	20		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
4-Bromofluorobenzene		101	103			66 - 148	
1,2-Dichloroethane-d4 (Surr)		113	118			62 - 137	
Toluene-d8 (Surr)		99	98			65 - 141	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77354**

**Method: 8015B**  
**Preparation: 3550B**

Lab Sample ID: MB 720-77354/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1134  
Date Prepared: 09/02/2010 0921

Analysis Batch: 720-77418  
Prep Batch: 720-77354  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000013.D  
Initial Weight/Volume: 30.14 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	92	31 - 114

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77354**

**Method: 8015B**  
**Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77354/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1050  
Date Prepared: 09/02/2010 0921

Analysis Batch: 720-77418  
Prep Batch: 720-77354  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000011.D  
Initial Weight/Volume: 30.11 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77354/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1112  
Date Prepared: 09/02/2010 0921

Analysis Batch: 720-77418  
Prep Batch: 720-77354  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000012.D  
Initial Weight/Volume: 30.15 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	100	103	59 - 134	3	35		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	103	107			31 - 114		

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77356**

Lab Sample ID: MB 720-77356/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/07/2010 1124  
 Date Prepared: 09/02/2010 0927

Analysis Batch: 720-77488  
 Prep Batch: 720-77356  
 Units: mg/Kg

**Method: 8015B  
 Preparation: 3550B**

Instrument ID: CHDRO6  
 Lab File ID: FID1000011.D  
 Initial Weight/Volume: 30.23 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50
<hr/>			
Surrogate	% Rec		Acceptance Limits
p-Terphenyl	92		31 - 114

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-77356**

LCS Lab Sample ID: LCS 720-77356/2-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/07/2010 1041  
 Date Prepared: 09/02/2010 0927

Analysis Batch: 720-77488  
 Prep Batch: 720-77356  
 Units: mg/Kg

**Method: 8015B  
 Preparation: 3550B**

Instrument ID: CHDRO6  
 Lab File ID: FID1000009.D  
 Initial Weight/Volume: 30.20 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77356/3-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 09/07/2010 1103  
 Date Prepared: 09/02/2010 0927

Analysis Batch: 720-77488  
 Prep Batch: 720-77356  
 Units: mg/Kg

Instrument ID: CHDRO6  
 Lab File ID: FID1000010.D  
 Initial Weight/Volume: 30.25 g  
 Final Weight/Volume: 2 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	96	96	59 - 134	0	35		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	96	96		31 - 114			

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-77356**

**Method: 8015B  
Preparation: 3550B**

MS Lab Sample ID: 720-30248-3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2046  
Date Prepared: 09/02/2010 0927

Analysis Batch: 720-77421  
Prep Batch: 720-77356

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_032.d  
Initial Weight/Volume: 30.27 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 720-30248-3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/03/2010 2110  
Date Prepared: 09/02/2010 0927

Analysis Batch: 720-77421  
Prep Batch: 720-77356

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_033.d  
Initial Weight/Volume: 30.30 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	95	88	50 - 130	8	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		94	88			31 - 114	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77382**

**Method: 8015B  
Preparation: 3510C**

Lab Sample ID: MB 720-77382/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1322  
Date Prepared: 09/02/2010 1418

Analysis Batch: 720-77421  
Prep Batch: 720-77382  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_014.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300
Surrogate	% Rec		Acceptance Limits
p-Terphenyl	92		23 - 156

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77382**

**Method: 8015B  
Preparation: 3510C**

LCS Lab Sample ID: LCS 720-77382/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1235  
Date Prepared: 09/02/2010 1418

Analysis Batch: 720-77421  
Prep Batch: 720-77382  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_012.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77382/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/03/2010 1259  
Date Prepared: 09/02/2010 1418

Analysis Batch: 720-77421  
Prep Batch: 720-77382  
Units: ug/L

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_013.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	69	80	40 - 150	15	35		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	107		109				23 - 156

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77401**

**Method: 8015B**  
**Preparation: 3550B**

Lab Sample ID: MB 720-77401/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/04/2010 0607  
Date Prepared: 09/02/2010 1715

Analysis Batch: 720-77421  
Prep Batch: 720-77401  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_056.d  
Initial Weight/Volume: 30.38 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49
Surrogate		% Rec	Acceptance Limits
p-Terphenyl	106		31 - 114

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77401**

**Method: 8015B**  
**Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77401/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/04/2010 0520  
Date Prepared: 09/02/2010 1715

Analysis Batch: 720-77421  
Prep Batch: 720-77401  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_054.d  
Initial Weight/Volume: 30.32 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77401/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/04/2010 0543  
Date Prepared: 09/02/2010 1715

Analysis Batch: 720-77421  
Prep Batch: 720-77401  
Units: mg/Kg

Instrument ID: CHDRO5  
Lab File ID: 0903105b\_055.d  
Initial Weight/Volume: 30.30 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	114	111	59 - 134	3	35		
Surrogate		LCS % Rec	LCSD % Rec	Acceptance Limits			
p-Terphenyl	112	111				31 - 114	

## Quality Control Results

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Method Blank - Batch: 720-77606**

**Method: 8015B  
Preparation: 3550B**

Lab Sample ID: MB 720-77606/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/09/2010 1048  
Date Prepared: 09/08/2010 1340

Analysis Batch: 720-77648  
Prep Batch: 720-77606  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000010.D  
Initial Weight/Volume: 30.19 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50
<b>Surrogate</b>		<b>% Rec</b>	<b>Acceptance Limits</b>
p-Terphenyl	96		31 - 114

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-77606**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-77606/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/09/2010 1004  
Date Prepared: 09/08/2010 1340

Analysis Batch: 720-77648  
Prep Batch: 720-77606  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000008.D  
Initial Weight/Volume: 30.03 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-77606/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 09/09/2010 1026  
Date Prepared: 09/08/2010 1340

Analysis Batch: 720-77648  
Prep Batch: 720-77606  
Units: mg/Kg

Instrument ID: CHDRO6  
Lab File ID: FID1000009.D  
Initial Weight/Volume: 30.42 g  
Final Weight/Volume: 2 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	111	110	59 - 134	2	35		
<b>Surrogate</b>		<b>LCS % Rec</b>	<b>LCSD % Rec</b>			<b>Acceptance Limits</b>	
p-Terphenyl	106	102				31 - 114	



Report To					Analysis Request																
Attn: <u>Xingqiang TONG</u>																					
Company: <u>OTG EnviroEngineering Solutions, Inc</u>																					
Address: <u>7700 Edgewater Dr., Suite 260</u>																					
Phone: <u>510/465-8982</u> Email: <u>Xtong@otgenv.com</u>																					
Bill To: <u>OTG</u>		Sampled By: <u>X Tong</u>																			
Attn: <u>X. Tong</u>		Phone: <u>510-612-0857</u>																			
Sample ID	Date	Time	Mat	Preserv	TPH EPA-8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA-8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 5 Oxygenates <input checked="" type="checkbox"/> DCA, EDB <input checked="" type="checkbox"/> Ethanol	(HVOCS) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBS	PNAS by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107/4707/471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS): <input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers
1 ASB-3-5	9/1/10	8:30			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
2 ASB-3-10		8:38				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
3 ASB-3-15		8:45				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
4 ASB-3-20		8:50			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
5 MW-10-5		9:00			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
6 MW-10-10		9:05				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
7 MW-10-15		9:10				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
8 MW-10-20		9:30			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															

Project Info		Sample Receipt	
Project Name: <u>B112-Oakland</u>	# of Containers:	1) Relinquished by: <u>[Signature]</u> <u>2:03 pm</u>	2) Relinquished by: <u>[Signature]</u> <u>1538</u>
Project #: <u>10HCT02.2000</u>	Head Space:	Signature <u>Xingqiang Tong</u>	Signature <u>VASQUEZ</u>
PO#:	Temp: <u>5.1°C</u>	Time <u>9/1/10</u>	Time <u>9/1/10</u>
Credit Card#:	Conforms to record:	Printed Name <u>OTG</u>	Printed Name <u>GOLO Buller</u>
		Date <u>9/1/10</u>	Date <u>9/1/10</u>
		Company <u>OTG</u>	Company <u>GOLO Buller</u>

3) Relinquished by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input checked="" type="checkbox"/> State Tank Fund EDF	Other:
Special Instructions / Comments: <u>Require EDF</u>	<u>Global ID SLT19761201</u> <u>Logcode: OTGO</u>
<u>Harry Sidhu Quote on 6/4/10 for OTG Oakland Site</u>	

1) Received by:	2) Received by:
Signature <u>[Signature]</u> Time <u>19:05</u>	Signature <u>[Signature]</u> Time <u>1538</u>
Printed Name <u>VASQUEZ</u> Date <u>9/1/10</u>	Printed Name <u>Milie H.</u> Date <u>9/1/10</u>
Company <u>GOLO Buller</u>	Company <u>TASF</u>

3) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

See Terms and Conditions on reverse  
 \*TestAmerica SF reports R015M from C-C<sub>1</sub> (Industry norm). Default for 8015B is C<sub>1</sub>-C<sub>2</sub>

# 720-30248

Reference #:

126595

Date

9/1/10

Page 2 of 3

09/09/2010

**Report Info** **Analysis Request**

Attn: Xinggang TONG  
 Company: OTG EnviroEngineering Solutions, Inc  
 Address: 7700 Edgewater Dr., Suite 260  
 Phone: 510/465-8982 Email: xtong@otgenv.com  
 Bill To: OTG Sampled By: X Tong  
 Attn: X. Tong Phone: 510-612-0857

Sample ID	Date	Time	Mat	Preserv	TPH EPA - 8260B <input checked="" type="checkbox"/> Gas W/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 5 Oxygenates (DCA, EDBCl Ethanol)	(HVOCS) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBs	PNAS by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers	
9 ASB-5-5	9/1/10	10:00	S	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
10 ASB-5-10		10:10	S	-		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
11 ASB-5-15		10:15	S	-		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
12 ASB-5-20		10:20	S	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
13 ASB-7-10		10:50	S	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
14 ASB-7-15		11:00	S	-		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
15 ASB-7-20		11:40	S	-		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
16 ASB-4-W		12:40	W	HCl		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
17 ASB-4-Wd		12:40	W	HCl			<input checked="" type="checkbox"/>																

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**Project Info** **Sample Receipt**

Project Name: B112-Oakland  
 Project#: 10HCT02.2000  
 PO#: \_\_\_\_\_  
 Credit Card#: \_\_\_\_\_

# of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: 5.1°C  
 Conforms to record: \_\_\_\_\_

T (5) Day 3 Day 2 Day 1 Day  
 Other: \_\_\_\_\_

Report:  Routine  Level 3  Level 4  EDD  State Tank Fund EDF  
 Special Instructions / Comments: require EDF  
 Global ID: SLT19761201  
 Log Code: OTGO  
 Harry Sidhu Quote on 6/4/10 for OTG Oakland site

1) Relinquished by:  
 Signature: [Signature] Time: 2:03 pm  
 Printed Name: Xinggang Tong Date: 9/1/10  
 Company: OTG

1) Received by:  
 Signature: [Signature] Time: 14:03  
 Printed Name: VASQUEZ Date: 9/1/10  
 Company: GOLD BULLET

2) Relinquished by:  
 Signature: [Signature] Time: 1538  
 Printed Name: VASQUEZ Date: 9/1/10  
 Company: GOLD BULLET

2) Received by:  
 Signature: [Signature] Time: 1530/1538  
 Printed Name: MICHELLE H. Date: 9/1/10  
 Company: TASF

3) Relinquished by:  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

3) Received by:  
 Signature: \_\_\_\_\_ Time: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Report To					Analysis Request																
Attn: <u>Xinggang TONG</u>																					
Company: <u>OTG EnviroEngineering Solutions, Inc</u>																					
Address: <u>7700 Edgewater Dr., Suite 260</u>																					
Phone: <u>510/465-8982</u> Email: <u>xtong@otgenv.com</u>																					
Bill To: <u>OTG</u>		Sampled By: <u>X Tong</u>																			
Attn: <u>X. Tong</u>		Phone: <u>510-612-0857</u>																			
Sample ID	Date	Time	Mat rix	Preserv	TPH EPA - <input checked="" type="checkbox"/> 8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDRC <input type="checkbox"/> Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other.	Low Level Metals by EPA 200.8/6020 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers
18 ASB-6-5	9/1/10	11:25			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
19 ASB-6-10		11:30				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
20 ASB-6-15		11:35				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
21 ASB-6-20		11:40				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
22 ASB-6-27		11:50			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
23 TB-3							<input checked="" type="checkbox"/>														
24 ASB-4-5		12:05			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
25 ASB-4-10		12:10				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
26 ASB-4-15		12:15				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
27 ASB-4-20		12:25				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														

Project Info		Sample Receipt	
Project Name: <u>B112-Oakland</u>	# of Containers:	Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input checked="" type="checkbox"/> State Tank Fund EDF	
Project#: <u>10HCT02.2000</u>	Head Space:	Special Instructions / Comments: <u>Require EDF</u>	<input checked="" type="checkbox"/> Global ID <u>SLT19761201</u>
PO#:	Temp: <u>5.1°C</u>	Log Code: <u>OTGO</u>	
Credit Card#:	Conforms to record:	Harry Sidhu Quote on 6/4/10 for OTG Oakland site	
T A T	<input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Other:	See Terms and Conditions on reverse	
*TestAmerica SF reports 8015M from C <sub>8</sub> -C <sub>24</sub> (industry norm). Default for 8015B is C <sub>10</sub> -C <sub>25</sub>			

1) Relinquished by:

[Signature] 2:03  
Signature Time  
Xinggang Tong 9/1/10  
Printed Name Date  
OTG  
Company

1) Received by:

[Signature] 14:03  
Signature Time  
VASQUEZ 9/1/10  
Printed Name Date  
GOLD BULLET  
Company

2) Relinquished by:

[Signature] 15:38  
Signature Time  
VASQUEZ 9/1/10  
Printed Name Date  
GOLD BULLET  
Company

2) Received by:

[Signature] 14:03  
Signature Time  
[Signature] 15:38  
Signature Time  
MIEH 9/1/10  
Printed Name Date  
TASF  
Company

3) Relinquished by:

Signature Time  
Printed Name Date  
Company

3) Received by:

Signature Time  
Printed Name Date  
Company

## Login Sample Receipt Check List

Client: OTG EnviroEngineering Solutions, Inc.

Job Number: 720-30248-1

**Login Number: 30248**

**Creator: Hoang, Julie**

**List Number: 1**

**List Source: TestAmerica San Francisco**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	