



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, California 94583
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29 August 2007

Re: Offsite Soil and Ground-Water Investigation Report
Atlantic Richfield Company Service Station #2107
3310 Park Boulevard
Oakland, California
ACEH Case #RO0002526

RECEIVED

1:09 pm, Sep 05, 2007

Alameda County
Environmental Health



"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple
Environmental Business Manager

**OFFSITE SOIL & GROUND-WATER
INVESTIGATION REPORT**
Atlantic Richfield Company Station No. 2107
3310 Park Boulevard
Oakland, California

Prepared for:

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by:

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29 August 2007

Project No. 06-08-614

29 August 2007

Project No. 06-08-614

Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

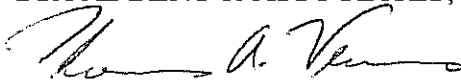
Re: Offsite Soil & Ground-Water Investigation Report, Atlantic Richfield Company Station #2107, 3310 Park Boulevard, Oakland, California; ACEH Case #RO0002526

Dear Mr. Supple:

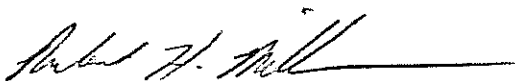
Broadbent & Associates, Inc. (BAI) is pleased to submit this *Offsite Soil & Ground-Water Investigation Report* for Atlantic Richfield Company Station #2107 (herein referred to as Station #2107) located at 3310 Park Boulevard, Oakland, California (Site). This report presents a description of field activities conducted and results obtained from drilling soil and ground-water borings to the north of the Site across Park Boulevard. This work was conducted in accordance with the *Conduit and Well Survey Report and Work Plan Addendum for Offsite Investigation* (URS, 5 April 2005), as approved by Alameda County Environmental Health Services (ACEH) in their letter dated 16 October 2006.

Should you have questions or require additional information, please do not hesitate to contact us at (530) 566-1400.

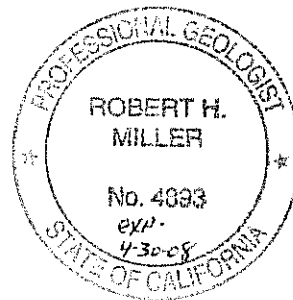
Sincerely,
BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

OFFSITE SOIL & GROUND-WATER INVESTIGATION REPORT

Atlantic Richfield Company Station #2107

3310 Park Boulevard

Oakland, California

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ATTACHMENTS

Figure 1	Site Location Map
Figure 2	Site Sketch with Boring Locations
Table 1	Summary of Depth-Discrete Soil Sampling Data
Table 2	Summary of Depth-Discrete Ground-Water Sampling Data

APPENDICES

Appendix A	Stratus Site Assessment Field Data Package (Includes Drilling Permit, Obstruction Permit, Excavation Permit, Traffic Control Permit, Site Plan, Field Data Sheets, Boring Logs, Borehole Sampling Logs, and Certified Laboratory Analytical Report with Chain-of-Custody Documentation)
Appendix B	GeoTracker Upload Confirmation Pages

OFFSITE SOIL & GROUND-WATER INVESTIGATION REPORT

Atlantic Richfield Company Station #2107

3310 Park Boulevard

Oakland, California

1.0 INTRODUCTION

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, Broadbent & Associates, Inc. (BAI) has prepared this Offsite Soil & Ground-Water Investigation Report for additional soil and ground-water characterization at the Atlantic Richfield Company Station #2107, located at 3310 Park Boulevard, Oakland, California (Site). This offsite soil and ground-water investigation was completed to further assess the extent of hydrocarbon contamination offsite to the north of the Site. Investigation activities were conducted in accordance with the URS *Conduit and Well Survey Report and Work Plan Addendum for Offsite Investigation* dated 5 April 2005, as approved with additional comments by the Alameda County Environmental Health (ACEH) in their letter dated 16 October 2006. This report includes discussions on the Site Background, Field Activities Performed, Results of Investigation, Site Geology, Hydrogeology and Contaminant Distribution, Conclusions and Recommendations.

2.0 SITE BACKGROUND

The background information and previous work conducted on and off Site was furnished to BAI by RM. BAI has relied on the information provided to prepare this document and is neither responsible for, nor has confirmed the accuracy of the information contained in the documents reviewed.

The Site is an active ARCO-brand gasoline retail outlet located on the corner of 33rd Street and Park Boulevard in Oakland, Alameda County, California (Drawing 1). The Site is bounded by East 34th Street to the northeast, Park Boulevard to the north, and commercial buildings to the south and west. The land use in the immediate vicinity of the Site is mixed commercial, residential, and educational. The Site consists of a service station building and three double-walled fiberglass 12,000-gallon gasoline underground storage tanks (USTs) with associated piping and a total of eight dispensers on two pump islands. The majority of the Site is surfaced with asphalt or concrete.

A detailed history of the Site prior to 2002 can be found in the previous report, *Additional Site Investigation Report and Work Plan for Offsite Investigation*, submitted by URS on 30 November 2004. In a letter dated 11 July 1997, ACEH confirmed that no further action was required at the Site. Remediation and monitoring infrastructure (nine monitoring wells and one remediation well) were removed from the Site, with the exception of remediation piping which was left under the main driveway.

In November 2002, URS oversaw a product line upgrade at the Site. Environmental soil samples collected along the product lines during construction activities indicated a potential release therefore an Unauthorized Release Report was issued for the Site on 21 January 2003. Field activities are summarized in the URS *Product Line Removal and Upgrade Soil Sampling Report* dated 31 January 2003.

Following the Unauthorized Release Report (Fuel Leak Case #RO0002526), the ACEH sent a letter to RM dated 25 April 2003 requesting a soil and ground-water investigation at the Site. URS submitted a *Work Plan for Additional Investigation* on 11 June 2003 proposing the installation of four ground-water monitoring wells on the Site. URS received a voicemail directive from ACEH to complete a soil and ground-water investigation prior to the installation of monitoring wells at the Site. In response, URS submitted an *Addendum to Work Plan for Additional Investigation* on 29 October 2003 proposing 10 soil borings. ACEH requested several modifications to the *Addendum to Work Plan for Additional Investigation* in a letter dated 9 January 2004. URS submitted a *Second Addendum to Work Plan for Additional Investigation* on 11 March 2004.

URS began fieldwork at the Site on 30 March 2004. Due to adverse drilling conditions, just three soil borings were advanced and fieldwork was rescheduled. URS returned to the Site on 7 May 2004 and advanced three additional borings. A *Site Investigation Report and Well Installation Work Plan* was submitted on behalf of RM to ACEH on 12 August 2004. On 30 August 2004 URS received a letter from ACEH requesting additional fieldwork at the Site to complete the scope of work proposed in the original work plan and addendum. ACEH additionally requested depth-discrete ground-water sampling.

These requests by ACEH were addressed in fieldwork conducted in October 2004. URS collected twelve depth-discrete ground-water samples from six locations (HP-3 through HP-8) and four grab ground-water samples (SB-1 through SB-3 and SB-5). URS also collected 46 soil samples from eight onsite borings (SB-1 through SB-3 and SB-8 through SB-11) and three offsite borings (SB-4 through SB-6). Results were reported by URS in the *Additional site Investigation Report and Work Plan for Offsite Investigation* dated 30 November 2004.

In response to the above report and work plan, URS received a directive letter from ACEH dated 10 January 2005. URS responded by submitting the *Conduit and Well Survey Report and Work Plan Addendum for Offsite Investigation*, dated 5 April 2005. ACEH approved the 5 April 2005 work plan addendum with comments in their work plan approval letter dated 16 October 2006. After considering drilling at the base of the hillside north of Park Boulevard, Stratus Environmental Inc. (Stratus) received the various permits from the City of Oakland and performed the proposed drilling and sampling activities in June 2007.

3.0 FIELD ACTIVITIES PERFORMED

The offsite soil and ground-water investigation was completed to assess the horizontal extent of petroleum hydrocarbon impacted soil and ground-water to the north of the Site. On the 25th and 26th of June 2007, Stratus advanced a total of eight soil borings on the north side of Park

Boulevard, north of the Site, to evaluate the offsite horizontal extent of petroleum hydrocarbon impacted soil and ground water. Soil borings SB-12 through SB-15 and Hydropunch borings HP-9 through HP-12 were installed along the north side of Park Boulevard. The soil boring locations from this investigation are shown in Drawing 2.

3.1 Preliminary Field Activities

Prior to initiating field activities, Stratus obtained the necessary well drilling permit from the Alameda County Public Works Agency (See Appendix A), prepared a site health and safety plan specific to the work scope; and cleared the Site for subsurface utilities. The utility clearance included notifying Underground Service Alert of the work a minimum of 48 hours prior to initiating the field investigation, and additionally securing the services of a private utility locating company to confirm the absence of underground utilities at each boring location. Boreholes were physically cleared to a minimum of five feet below ground surface (bgs) using an air and water knife rig.

3.2 Soil Boring Advancement

On the 25th and 26th of June 2007, Stratus field personnel observed RSI Drilling (RSI) of Woodland, California advance a total of eight soil borings in four distinct offsite investigation locations (SB-12/HP-9, SB-13/HP-10, SB-14/HP-11, and SB-15/HP-12). Each boring was physically cleared to a minimum depth of five feet bgs using an air and water knife. RSI utilized a direct push Geoprobe 6600 drill rig to collect continuous cores at each soil boring location to a maximum depth of 30 feet. Physical soil samples were collected at specific depths for laboratory analysis based on field observations and recommendations from the ACEH.

Soil boring SB-12 was advanced to a total depth of 28 feet bgs. Soil samples were collected from boring SB-12 at 9, 15, 23 and 27 feet bgs. Sands and clayey sands were observed from approximately 7.2 to 9.2 feet bgs and 11.2 to 23 feet bgs, with an intermediate layer of silty clay from 9.2 to 11.2 feet bgs, and silty clay from 23 feet bgs to the total depth of 28 feet bgs.

Soil boring SB-13 was advanced to a total depth of 30 feet bgs. Soil samples were collected from boring SB-13 at 11, 15, 21, and 29 feet bgs. Clayey sands were observed from approximately 7.2 to 10 feet bgs. Silty clays and sandy clays were encountered from approximately 10 to 14 feet bgs, 18 to 20 feet bgs, and 26.3 to total depth of 30 feet bgs, with intermediate layers of clayey sands and sands with clay and silt from 14 to 18 feet bgs and 20 to 26.3 feet bgs.

Soil boring SB-14 was advanced to a total depth of 30 feet bgs. Soil samples were collected from boring SB-14 at 9, 15, 19, and 29 feet bgs. Clayey sand with silt was observed from approximately 6.5 to 11.5 feet bgs, 12 to 13.3 feet bgs, and 17.2 to 20 feet bgs. Silty clays were encountered from approximately 11.5 to 12 feet bgs, 13.3 to 15 feet bgs, 16 to 17.2 feet bgs, and 26.5 to 30 feet bgs.

Soil Boring SB-15 was advanced to a total depth of 30 feet bgs. Soil samples were collected from boring SB-15 at 9, 17, 23, and 29 feet bgs. Silty clays were observed from approximately 6.5 to 9.3 feet bgs, 13.5 to 16.5 feet bgs, and 27 to 30 feet bgs. Clayey sands and sands with clay and silt were encountered between approximately 9.3 to 13.5 feet bgs and 16.5 to 27 feet bgs.

Following completion of soil boring advancement and sample collection, borings were backfilled with neat cement grout to surface grade.

3.3 Ground-Water Sampling

Ground-water samples were collected from borings HP-9 through HP-12 to delineate the extent of hydrocarbon contamination offsite to the north. RSI used a Hydropunch[®] ground-water sampler to collect the samples. Each ground-water Hydropunch[®] boring was advanced to a maximum depth of 25 feet bgs and located adjacent to soil borings SB-12 through SB-15. Water samples were collected from boring HP-9 (adjacent to boring SB-12) between 10.5-14.5 feet bgs (Sample HP9-13) and 19-23 feet bgs (Sample HP9-21), from boring HP-10 (adjacent to boring SB-13) between 14-18 feet bgs (Sample HP10-16) and 22-26 feet bgs (Sample HP10-24), from boring HP-11 (adjacent to boring SB-14) between 22-26 feet bgs (Sample HP11-24), and from boring HP-12 (adjacent to boring SB-15) between 17-21 feet bgs (Sample HP12-19) and between 23-27 feet bgs (Sample HP12-25).

3.4 Investigation-Derived Residuals Management

Residual solids and liquids generated during the Site investigation activities were stored temporarily onsite in Department of Transportation-approved 55-gallon drums pending analytical results and profiling. Following characterization and profiling, Belshire Environmental Services was scheduled to transport the investigation-derived residuals to an RM-approved facility for treatment or disposal.

4.0 RESULTS OF INVESTIGATION

4.1 Soil Analytical Results

Soil samples were shipped to TestAmerica Analytical Testing Corporation (Morgan Hill), a California State-certified laboratory, under chain-of-custody protocol. Samples were analyzed for gasoline range organics (GRO, hydrocarbon chain lengths between C4-C12) by LUFT GCMS methodology; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), Di-isopropyl ether (DIPE), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), tert-Butyl alcohol (TBA), and ethanol using EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the soil samples. Copies of the laboratory analytical reports, including chain-of-custody documentation, are provided in Appendix A. The laboratory analytical results are tabulated in Table 1 and summarized below:

- MTBE was detected above laboratory reporting limit of 0.005 milligrams per kilogram (mg/kg, or parts per million) in two of the sixteen soil samples collected at concentrations of 0.0087 mg/kg in boring sample SB12-15 and 0.0065 mg/kg in boring sample SB15-23.

The remaining analytes were not detected above their respective reporting limits in the sixteen soil samples collected. Laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

4.2 Ground-Water Analytical Results

Ground-water samples were shipped to TestAmerica Analytical Testing Corporation (Morgan Hill), a California State-certified laboratory, under chain-of-custody protocol. Samples were analyzed for gasoline range organics (GRO, hydrocarbon chain lengths between C4-C12) by LUFT GCMS methodology; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), Di-isopropyl ether (DIPE), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), tert-Butyl alcohol (TBA), and ethanol using EPA Method 8260B. The laboratory noted that the GRO concentrations reported in Hydropunch[®] boring samples HP9-13 and HP12-25 were partly due to individual peak(s) in the quantitation range. No other significant irregularities were encountered during laboratory analysis of the ground-water samples. Copies of the laboratory analytical reports, including chain-of-custody documentation, are provided in Appendix A. The laboratory analytical results are tabulated in Table 2 and summarized below:

- GRO was detected above the laboratory reporting limit of 50 micrograms per liter ($\mu\text{g/L}$, or parts per billion) in three of the seven ground-water samples collected at concentrations of 51 $\mu\text{g/L}$ in sample HP9-13, 59 $\mu\text{g/L}$ in sample HP11-24, and 84 $\mu\text{g/L}$ in sample HP12-25.
- Benzene was detected above the laboratory reporting limit of 0.50 $\mu\text{g/L}$ in two of the seven ground-water samples collected at concentrations of 0.63 $\mu\text{g/L}$ in sample HP11-24 and 0.80 $\mu\text{g/L}$ in sample HP10-24.
- MTBE was detected above the laboratory reporting limit of 0.50 $\mu\text{g/L}$ in each of the seven ground-water samples collected at concentrations ranging from 0.78 $\mu\text{g/L}$ in sample HP10-16 up to 110 $\mu\text{g/L}$ in sample HP12-25.

The remaining analytes were not detected above their respective reporting limits in the seven ground-water samples collected. Laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

5.0 SITE HYDROGEOLOGY

Regionally, the site lies within the hydrogeologic feature known as the East Bay Plain Groundwater Basin (CRWQCB, 1999). Deep groundwater occurs in mostly confined aquifers

consisting of unconsolidated Tertiary to Quaternary age deposits. Some unconfined shallow water bearing deposits of Quaternary age exist within this basin, including under the subject property. The consolidated basement rocks underlying the Quaternary and Tertiary age deposits are considered to be non-water bearing due to their poor yields.

The Site lies within the Oakland sub-area of the San Francisco Basin. The San Francisco Basin is one of two basins that occupy the East Bay Plain Groundwater Basin. The water bearing deposits are composed of coalescing alluvial fans sloping westward from the Diablo Range to the east (CRWQCB, 1999). The alluvial deposits range from 300 to 700 feet in thickness, and the sequence lacks any well-defined aquitards. The primary shallow, water-bearing formation is the Merritt Sand. The Merritt Sand is a discontinuous formation with an approximate thickness of 65 feet. Below the Merritt Sand are a series of thin alternating aquifers and aquitards (Muir, 1993).

The Site is underlain by gravel, gravelly clay, and silt till from 0 to 5 feet bgs. From 5 to 30 feet bgs, the Site consists primarily of silty clay and clayey silt with lenses of silty sand, sand, and gravelly sand. From approximately 15 to 25 feet bgs in the northwest part of the Site is a large lense of fine sands and silty sands. Based on historic monitoring well data, ground-water has been encountered at depths of 5.31 to 9.32 feet bgs. Historically, the ground-water flow direction beneath the Site has been to the northwest at a gradient of approximately 0.09 feet per foot.

The Site has been leveled by cutting into the hillside. There is a cement retaining wall along the south side of the property with weep holes for run-off from the hillside. It is possible that the backfilled UST cavity, which is down gradient from the retaining wall, may be collecting run-off water. In the *Conduit and Well Survey Report and Workplan Addendum*, URS reported that this water collecting in the UST cavity may be running out of the cavity and down gradient, and might be the cause of shallow first encountered water at boring locations along the north side of the property.

6.0 CONCLUSIONS

On behalf of the Atlantic Richfield Company, RM – a BP affiliated company, BAI prepared this Offsite Soil & Ground-Water Investigation Report for Station No.2107, located at 3310 Park Boulevard, Oakland, California. Investigation activities were conducted in accordance with the URS *Conduit and Well Survey Report and Work Plan Addendum for Offsite Investigation* dated 5 April 2005, as approved by the Alameda County Environmental Health (ACEH) in their letter dated 16 October 2006. Based on the findings of this investigation, BAI concludes the following:

- Negligible soil contamination was discovered above the ground-water table in the four offsite borings north of the Site.
- Relatively low concentrations of GRO, Benzene, and MTBE were discovered in the four offsite borings north of the Site.

7.0 CLOSURE

This document has been prepared for the exclusive use of Atlantic Richfield Company. The findings presented in this report are based upon the observations of Stratus field personnel, points of investigation and results of laboratory tests performed by Test America Analytical Testing Corporation (Morgan Hill, California). Services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended. It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in site conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage or other factors.

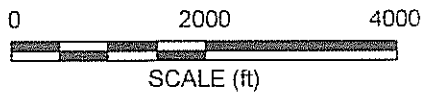
8.0 REFERENCES

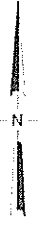
- ACEH, 15 April 2003. *Fuel Leak Case No.RO0002526, Arco #2107, 3310 Park Blvd., Oakland, CA 94610.* Letter to Atlantic Richfield Company.
- ACEH 30 August 2004. *Fuel Leak Case No.RO0002526, Arco #2107, Active Automobile Service Station at 3310 Park Blvd., Oakland, California.* Letter to Atlantic Richfield Company.
- ACEH, 10 January 2005. *Fuel Leak Case No.RO0002526, ARCO #2107, Active Service Station at 3310 Park Blvd., Oakland, California – Response to Report and Workplan.* Letter to Atlantic Richfield Company.
- ACEH, 16 October 2006. *Fuel Leak Case No.RO0002526, ARCO #2107, Active Service Station at 3310 Park Blvd., Oakland, California – Work Plan Approval.* Letter to Atlantic Richfield Company.
- California Regional Water Quality Control Board, San Francisco Bay Region, June 1999. *East Bay Plain Groundwater Basin, Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA.*
- Muir, Kenneth S., 1993. *Classification of Groundwater Recharge Potential in the East Bay Plain, Alameda County, California.* Alameda County Flood Control and Water Conservation District.
- URS, 29 October 2003. *Addendum to Work Plan for Additional Investigation.* Letter to ACEH on behalf of Atlantic Richfield Company.
- URS, 11 March 2004. *Second Addendum to Work Plan for Additional Investigation.* Letter to ACEH on behalf of Atlantic Richfield Company.

URS, 12 August 2004. *Site Investigation Report and Well Installation Workplan, Atlantic Richfield Company Service Station #2107, 3310 Park Boulevard, Oakland, California, Fuel Leak Case No. RO0002526, URS Project No. 38486908.0013601.* Letter to ACEH on behalf of Atlantic Richfield Company.

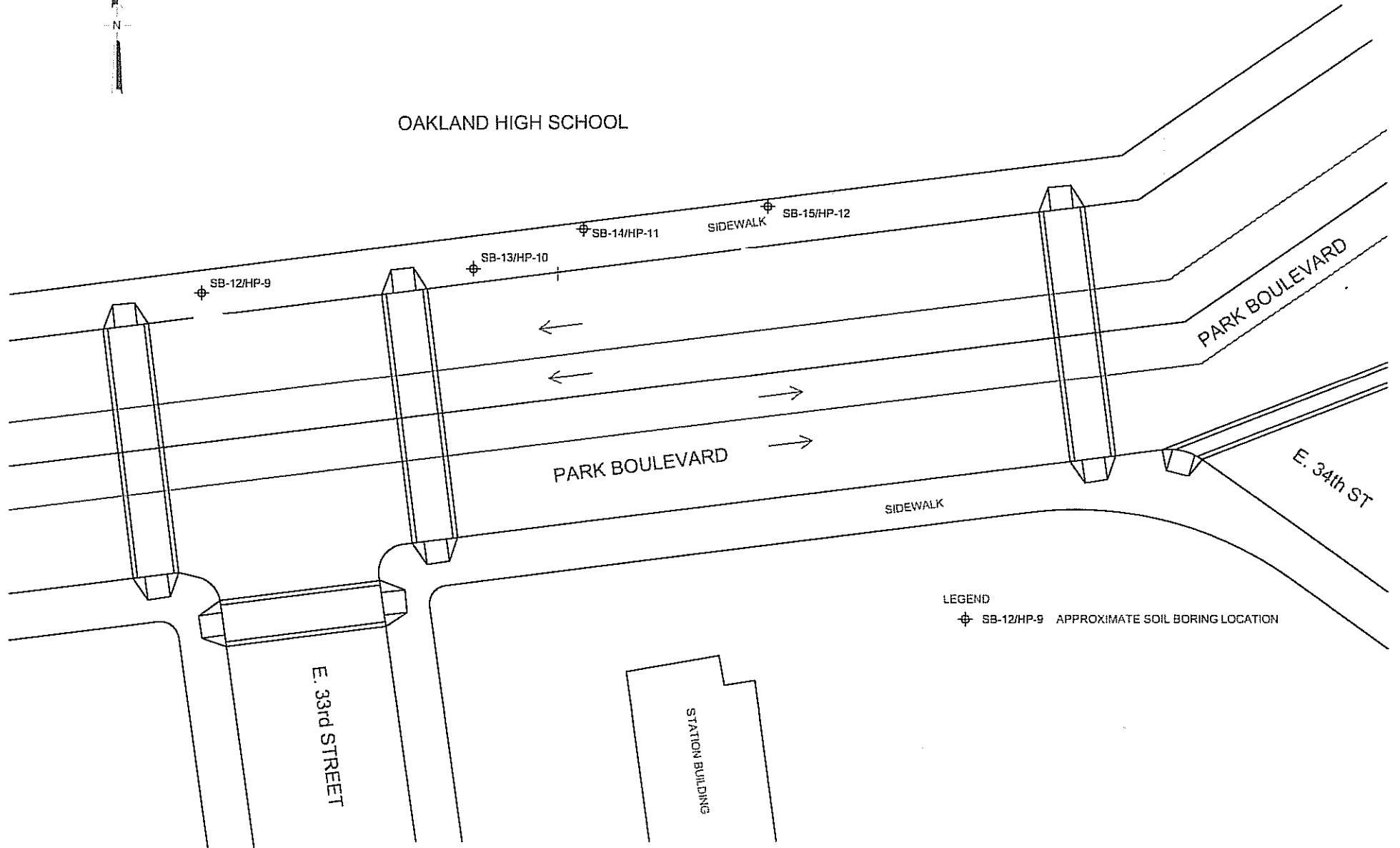
URS, 30 November 2004. *Additional Site Investigation Report and Workplan for Offsite Investigation, Atlantic Richfield Company Service Station #2107, 3310 Park Boulevard, Oakland, California, Alameda County Case No. RO-0002526.* Letter to ACEH on behalf of Atlantic Richfield Company.

URS, 5 April 2005. *Conduit and Well Survey Report and Work Plan Addendum for Offsite Investigation, Atlantic Richfield Company Service Station #2107, 3310 Park Boulevard, Oakland, California, Alameda County Case No. RO-0002526.* Letter to ACEH on behalf of Atlantic Richfield Company.

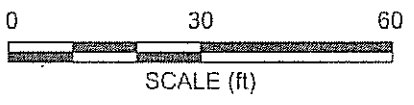




OAKLAND HIGH SCHOOL



LEGEND
 ⊕ SB-12/HP-9 APPROXIMATE SOIL BORING LOCATION



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California
 Project No.: 06-08-614 Date: 8/24/07

Station #2107
 3310 Park Boulevard
 Oakland, California

Site Plan

Drawing
 2

**Table 1. Summary of Depth-Discrete Soil Sampling Data
BP Service Station No. 2107
3310 Park Boulevard, Oakland, California (ACEH Case No. RO0002526)**

Boring I.D.	Date	Laboratory Analytical Results (mg/kg)												
		GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TBA	TAME	Ethanol	EDB	1,2 DCA
SB12-9	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB12-15	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0087	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB12-23	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB12-27	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB13-11	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB13-15	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB13-21	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB13-29	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB14-9	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB14-15	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB14-19	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB14-29	6/26/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB15-9	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB15-17	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB15-23	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
SB15-29	6/25/2007	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.10	<0.0050	<0.0050
Soil Quality Objectives*		5.0	1.0	42	29	17	5.0	0.8	13	12	13	---	0.05	0.5

EDB = 1,2-Dibromoethane

1,2 DCA = 1,2 Dichloroethane

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

GRO = Gasoline Range Organics, C4-C12

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

* = Water Quality Objectives compiled from the CRWQCB's *A Compilation of Water Quality Goals - August 2003* and from other CRWQCB sources.

**Table 2. Summary of Depth-Discrete Ground-Water Sampling Data
BP Service Station No. 2107
3310 Park Boulevard, Oakland, California (ACEH Case No. RO0002526)**

Boring I.D.	Date	Laboratory Analytical Results (µg/l)												
		GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DIPE	ETBE	TBA	TAME	Ethanol	EDB	1,2 DCA
HP9-13	6/26/2007	51 ¹	<0.50	<0.50	<0.50	<0.50	67	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP9-21	6/26/2007	<50	<0.50	<0.50	<0.50	<0.50	7.4	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP10-16	6/26/2007	<50	<0.50	<0.50	<0.50	<0.50	0.78	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP10-24	6/26/2007	<50	0.80	<0.50	<0.50	<0.50	50	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP11-24	6/26/2007	59	0.63	<0.50	<0.50	<0.50	66	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP12-19	6/25/2007	<50	<0.50	<0.50	<0.50	<0.50	30	<0.50	<0.50	<20	<0.50	<300	<0.50	<0.50
HP12-25	6/25/2007	84 ¹	<1.0	<1.0	<1.0	<1.0	110	<1.0	<1.0	<40	<1.0	<600	<1.0	<1.0
Water Quality Objectives*		5.0	1.0	42	29	17	5.0	0.8	13	12	13	—	0.05	0.5

EDB = 1,2-Dibromoethane

1,2 DCA = 1,2 Dichloroethane

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

GRO = Gasoline Range Organics, C4-C12

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

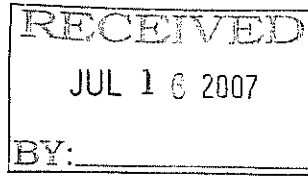
¹ = Hydrocarbon result partly due to individual peak(s) in quantitation range

* = Water Quality Objectives compiled from the CRWQCB's *A Compilation of Water Quality Goals - August 2003* and from other CRWQCB sources.

APPENDIX A

STRATUS SUBSURFACE ASSESSMENT DATA PACKAGE

(Includes Drilling Permit, Obstruction Permit, Excavation Permit, Traffic Control Permit, Site Plan, Field Data Sheets, Boring Logs, Borehole Sampling Logs, and Certified Laboratory Analytical Report with Chain-of-Custody Documentation)



3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

July 15, 2007

Mr. Tom Venus
Broadbent & Associates, Inc.
1324 Mangrove Avenue
Chico, California 95926

Re: Subsurface Assessment Data Package, ARCO Service Station No. 2107, located at 3310 Park Boulevard, Oakland, California (utility locating and assessment activities performed between May 30 and June 26, 2007)

General Information

Data Submittal Prepared / Reviewed by: Scott Bittinger / Jay Johnson
Phone Number: (530) 676-2062

Date: May 30, 2007 *Arrival:* 10:00 *Departure:* 11:15
On-Site Supplier Representative: Scott Bittinger
Scope of Work Performed: Health and safety meeting. Meet with utility locating contractor at site to clear boring locations. Borings were subsequently marked for USA clearance.
Variations from Work Scope: None noted
Weather Conditions: Cloudy, warm
Unusual Field Conditions: None noted

Date: June 12, 2007 *Arrival:* 11:20 *Departure:* 11:40
On-Site Supplier Representative: Allan Dudding
Scope of Work Performed: Check work area for USA marks
Variations from Work Scope: None noted
Weather Conditions: Not noted
Unusual Field Conditions: None noted

Date: June 25, 2007 *Arrival:* 07:10 *Departure:* 19:00
On-Site Supplier Representative: Scott Bittinger and Collin Fischer
Scope of Work Performed: Health and safety meeting. Set up and remove traffic control equipment. Cored concrete at 8 drilling locations. Air knifed 4 boring locations (SB-13, SB-14, SB-15, and HP-12). Completed 3 direct push borings (SB-13, SB-15, HP-12).
Variations from Work Scope: None noted
Weather Conditions: Sunny, warm
Unusual Field Conditions: None noted

Date: June 26, 2007

Arrival: 06:45

Departure: 18:50

On-Site Supplier Representative: Scott Bittinger and Collin Fischer

Scope of Work Performed: Health and safety meeting. Set up and remove traffic control equipment. Air knifed 4 boring locations (SB-12, HP-9, HP-10, and HP-11). Completed 5 direct push borings (SB-12, SB-14, HP-19, HP-10, HP-11).

Variations from Work Scope: Boring SB-12 terminated at 28 feet bgs instead of 30 feet bgs.

Weather Conditions: Sunny, warm

Unusual Field Conditions: None noted

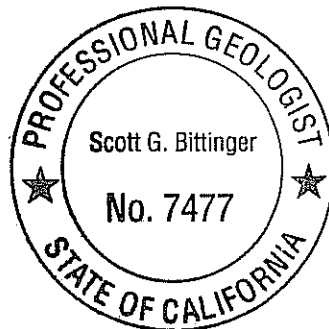
This submittal presents the tabulation of data collected in association with the installation of one vapor extraction well. The attachments include field data sheets, boring logs, hydropunch boring sampling logs, drilling permit, traffic control permit, obstruction permit, excavation permit, site plan, chain of custody documentation and certified analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.
Project Geologist



Attachments:

- Field Data Sheets
- Boring Logs
- Borehole Sampling Logs
- Drilling Permit
- Obstruction Permit
- Excavation Permit
- Traffic Control Permit
- Site Plan
- Chain-of-Custody Documentation
- Certified Analytical Results

Cc: Paul Supple, BP/Arco

Arco 2107

5-30-07

On site 10:00 to locate off site utilities in sidewalk of west bound Park Blvd.

Cloudy, 60°

No parking is allowed adjacent to sidewalk area has a red-painted curb.

A street light conduit is located about 13" below grade within a 2" conduit pipe. Approx 18" north of curb.

Cruz Bros. verified location of gas line as being about 1.5-2' south of curb area, within asphalt driving lanes.

Storm drain is generally 5'-6' below grade
↓ that is present near sidewalk/work area.

Storm drain is about 12" in diameter.

~~SB-14 & SB-15~~ Storm drain is well away from boring SB-14 & SB-15 locations.

Spoke with janitor of High School. School lets out for summer on June 13.

Boring SB-13/HP-10 is proposed north of storm drain
SB-12/HP-9 is proposed south of storm drain

off site 11:15

Arco 2107

6-25-07

Depart 4:40, Arrive at site at 7:10

Meet Flash Safety at 7:20 and obtain traffic control equipment. Begin set-up

8:00 drill / air knife crew & Golin from Strab's arrive

H&S meeting, then set-up work area, Begin concrete coring at 9:00 & air knitting at 9:30

Paul from BP onsite 10:20 & Rob Miller from Ground Vent onsite 10:35

Air Knife SB-15 to 6.5'. Move air knife to SB-14 (11:00)

Begin geoprobing SB-15.

City Oakland onsite (11:00 for inspection, leave 11:05)

Paul & Rob off site 11:50

Cleared boring SB-13 to 7' 3". (12:55) finish

SB-15 & grout 13:00, short lunch break.

13:35: Begin air knitting HP-12 & geoprobing SB-13

15:30 finish grouting SB-13 & air knitting HP-12 to 6' 6.95

18:00 finish HP-12 & grout up.

also air knifed SB-14 to 6' 4".

Pack up traffic equipment & depart.

offsite 19:00

Scott Brothers

Arco 2107

6-26-07

Onsite 6:45, Collin from Stratus onsite 7:00. Begin setting up traffic control, RSI arrives 7:30

H&S, meeting. Setup equipment. Begin airknifing

SB-12 at 8:20 & Geoprobing SB → 7'4"

Finish airknifing SB-12 at 9:20 & move to HP-9

Finish geoprobing & grouting SB-14 at 10:05.

Finish airknifing HP-9 to 7'2" (10:45)

Begin geoprobing SB-12 at 11:30. Begin airknifing

HP-10 at 11:30 finish SB-12 at noon.

12:15 Begin HP-9 → expose screen & wait for water (lunch for drill crew)

13:20 finish cleaning HP-10 to 6'10".

14:30 finish vac cleaning HP-11.

5 drums of soil, 2 drums of rinse water

Finish HP-10 & HP-11 (5:00 pm)

Grout & patch holes. take down traffic control equipment

Depart site 18:50 &

travel to Flash Safety & return traffic control equipment @ 19:45

Scott Anthony

SOIL BORING LOG

Boring No. SB-12

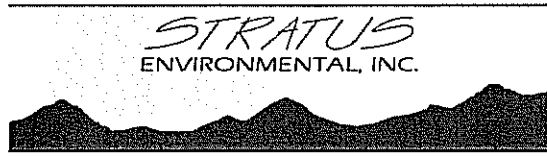
Sheet 1 of 2

Client ARCO Station No. 2107 Date 6/26/2007
 Address 3310 Park Boulevard Drilling Company RSI rig type: Geoprobe 6600
Oakland, CA Drilling Foreman Art
 Project No. E-2107 Method Direct Push hole diam.: 2"
 Logged By: Scott Bittinger

grout: 0 ft. to 28 ft.

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	Concrete		
						2			
						3	air knife to 7.2' bgs. Not logged.		
						4			
						5			
						6			
						7			
						8	SC CLAYEY SAND with SILT, 7.2'-8.5', light olive brown, 60% fine grained sand, 40% silty clay, moist		
						9	SP-SC SAND with CLAY 8.5'-9.2', light olive brown, 90% fine grained sand, 10% silty clay, damp		
S	SB12-9		11:36			10	CL SILTY CLAY 9.2'-11.2', light olive brown, 0-10% fine grained sand, dry, stiff	0	
						11			
S	SB12-11		11:38			12	SP-SC SAND with CLAY and SILT, 11.2'-14', dark yellowish brown, 85-90% fine grained sand, 10-15% silty clay, damp to wet	0	
						13			
						14			
						15	SC CLAYEY SAND 14'-15.8', grayish brown, 50-60% fine grained sand, 40-50% silty clay, moist		
S	SB12-15		11:42			16		0	
						17			
S	SB12-17		11:45			18	SW-SC SAND with CLAY and SILT 15.8'-22', fine to coarse grained, 5% fine gravel, 10-15% silty clay, damp to wet	0	
						19			
S	SB12-19		11:47			20		0	

Comments: Soil continuously recovered in acrylic liners. Total depth of boring is 28 feet bgs. Boring backfilled to surface grade with neat cement.



SOIL BORING LOG

Boring No. SB-13

Sheet 1 of 2

Client ARCO Station No. 2107 Date 6/25/2007
 Address 3310 Park Boulevard Drilling Company RSI rig type: Geoprobe 6600
Oakland, CA Drilling Foreman Art
 Project No. E-2107 Method Direct Push hole diam.: 2"
 Logged By: Scott Bittinger

grout: 0 ft. to 30 ft.

Sample Type	Sample No.	Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	Concrete		
						2			
						3	air knife to 7.2' bgs. Not logged.		
						4			
						5			
						6			
						7			
						8	SC CLAYEY SAND 7.2'-10', very dark gray, 55% fine grained sand, 45% clayey fines, damp		
						9			
S	SB13-9		13:53			10	CL SILTY CLAY 10'-12', olive brown, moist, stiff	1	
						11			
S	SB13-11		13:59			12	SANDY CLAY with SILT 12'-12.8', olive gray, 65% silty clay, 35% fine grained sand, moist, stiff	3.5	
						13	CL SILTY CLAY 12.8'-13.6', olive gray, moist, stiff		
S	SB13-13		14:02			14	SANDY CLAY with SILT 13.6'-14', dark yellowish brown, 70% silty clay, 30% fine grained sand, moist		
						15	SC CLAYEY SAND 14'-16.5', dark yellowish brown, 70-90% fine grained sand, 10-30% silty clay, damp		
S	SB13-15		14:07			16		0	
						17	SW-SC SAND with CLAY and SILT, 16.5'-18', dark yellowish brown, fine to coarse grained, 5% fine gravel, 10-15% silty clay, damp to wet		
S	SB13-17		14:09			18		0	
						19	CL SILTY CLAY 18'-20', light olive gray with iron oxide staining, moist, stiff		
S	SB13-19		14:12			20		0	

Comments: Soil continuously recovered in acrylic liners. Total depth of boring is 30 feet bgs. Boring backfilled to surface grade with neat cement.



SOIL BORING LOG

Boring No. SB-14

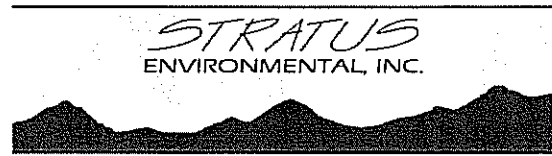
Sheet 1 of 2

Client ARCO Station No. 2107 Date 6/26/2007
 Address 3310 Park Boulevard Drilling Company RSI rig type: Geoprobe 6600
Oakland, CA Drilling Foreman Art
 Project No. E-2107 Method Direct Push hole diam.: 2"
 Logged By: Scott Bittinger

grout: 0 ft. to 30 ft.

Sample Type	Sample No.	Blow Count	Sample		Well Construc.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
			Time	Reprov.					
						1	Concrete		
						2			
						3	air knife to 6.5' bgs. Not logged.		
						4			
						5			
						6			
						7			
						8	SC CLAYEY SAND with SILT, 6.5'-11.5', light olive brown 6.5'-10', dark yellowish brown 10'-11.5', 50-65% fine grained sand, 35-50% silty clay, moist		
						9			
S	SB14-9		8:44			10			
						11			
S	SB14-11		8:46			12	CL SILTY CLAY with SAND 11.5'-12', dark yellowish brown, 85% silty clay, 15% fine grained sand, moist		
						13	SC CLAYEY SAND with SILT, 12'-13.3', grayish brown, 60% fine grained sand, 40% silty clay, moist		
S	SB14-13		8:48			14	CL SILTY CLAY 13.3'-15', grayish brown, 8% fine grained sand, dry to moist, stiff		
						15			
S	SB14-15		8:50			16	SP-SC SAND with CLAY and SILT 15'-16', fine grained, 7-10% silty clay, damp		
						17	CL SANDY CLAY with SILT 16'-17.2', grayish brown, 80% silty clay, 20% fine grained sand, moist		
S	SB14-17		8:52			18	SC CLAYEY SAND with SILT, 17.2'-20', grayish brown to light olive brown, 55-65% fine grained sand, 35-45% silty clay, moist		
						19			
S	SB14-19		8:54			20		0	

Comments: Soil continuously recovered in acrylic liners. Total depth of boring is 30 feet bgs. Boring backfilled to surface grade with neat cement.



SOIL BORING LOG

Boring No. SB-15

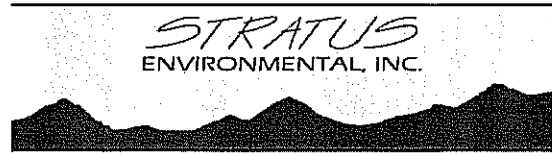
Sheet 1 of 2

Client ARCO Station No. 2107 Date 6/25/2007
 Address 3310 Park Boulevard Drilling Company RSI rig type: Geoprobe 6600
Oakland, CA Drilling Foreman Art
 Project No. E-2107 Method Direct Push hole diam.: 2"
 Logged By: Scott Bittinger

grout: 0 ft. to 30 ft.

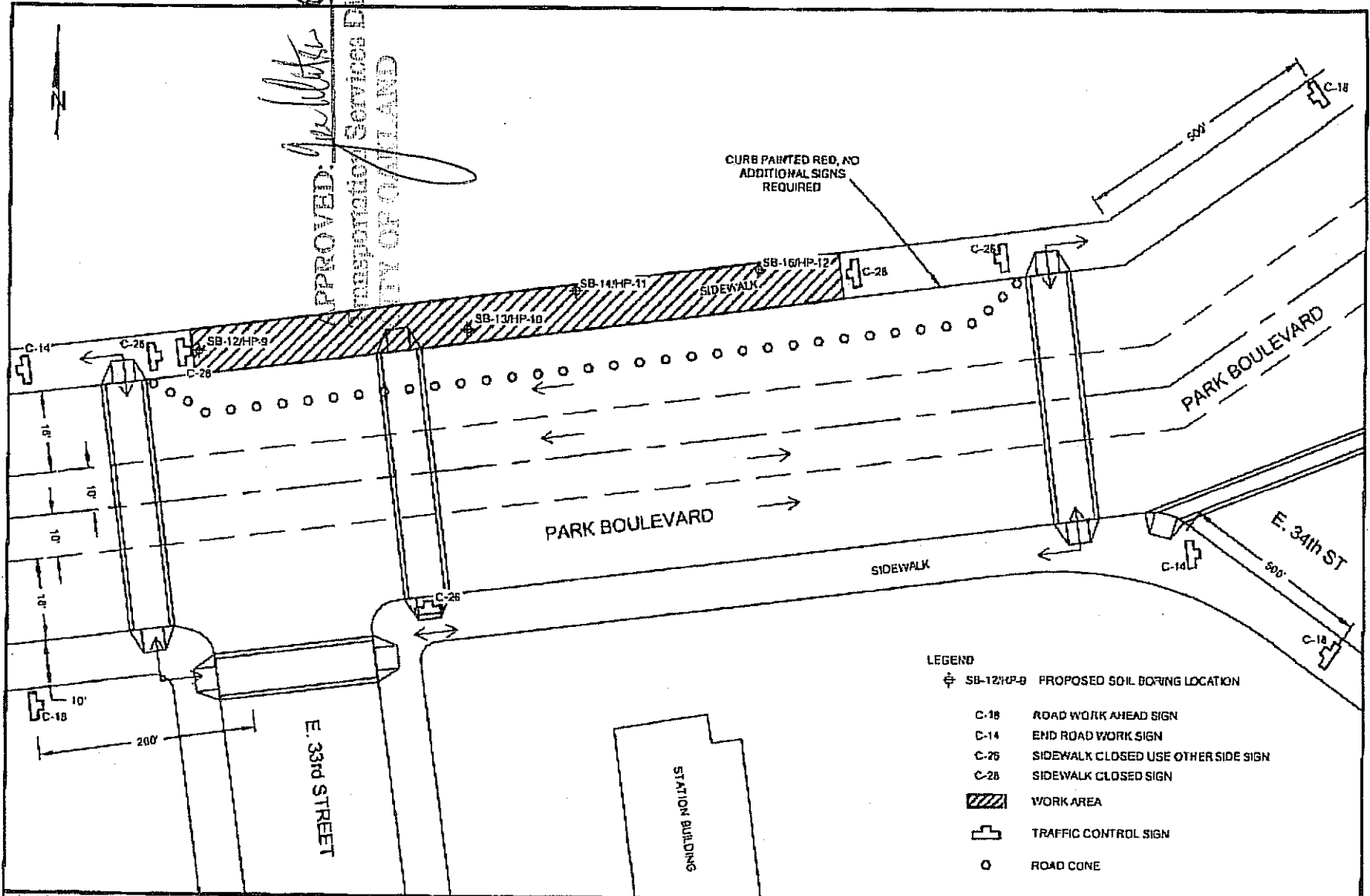
Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
						1	Concrete		
						2			
						3	air knife to 6.5' bgs. Not logged.		
						4			
						5			
						6			
						7			
S	SB15-7		11:28			8	CL SILTY CLAY 6.5'-9.3', dark grayish brown, moist, stiff	0	
						9			
S	SB15-9		11:30			10	SC CLAYEY SAND with SILT 9.3'-12', dark yellowish brown, 80% fine to coarse grained sand, 20% silty clay, damp	0	
						11			
S	SB15-11		11:33			12	SC CLAYEY SAND 12'-13.5', grayish brown, 85% fine grained sand, 15% silty clay, moist	0	
						13			
						14			
						15	CL SILTY CLAY 13.5'-16.5', light olive brown, moist, stiff		
						16			
						17			
S	SB15-17		12:20			18	SP-SC SAND with CLAY and SILT 16.5'-18', dark yellowish brown, 85% fine grained sand, 5% medium grained sand, 10% silty clay, wet	0	
						19			
S	SB15-19		12:22			20	SW SAND with CLAY and SILT 18'-27', fine to coarse grained, 5% fine gravel, 10% silty clay, wet	0	

Comments: Soil continuously recovered in acrylic liners. Total depth of boring is 30 feet bgs. Boring backfilled to surface grade with neat cement.



06/04/2007 12:48 5306/66005 STRATUS NO CALIF PAUL 02701

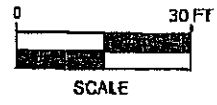
APPROVED: *[Signature]* 6/8/07
REGISTRATION SERVICES DIVISION
CITY OF OAKLAND



CURB PAINTED RED, NO ADDITIONAL SIGNS REQUIRED

- LEGEND
- SB-12/HP-9 PROPOSED SOIL BORING LOCATION
 - C-18 ROAD WORK AHEAD SIGN
 - C-14 END ROAD WORK SIGN
 - C-25 SIDEWALK CLOSED USE OTHER SIDE SIGN
 - C-26 SIDEWALK CLOSED SIGN
 - WORK AREA
 - TRAFFIC CONTROL SIGN
 - ROAD CONE

STRATUS ENVIRONMENTAL, INC.



ARCO SERVICE STATION NO. 2107
3310 PARK BOULEVARD
OAKLAND, CALIFORNIA
TRAFFIC CONTROL PLAN

FIGURE
1
PROJECT NO.
E2107

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
 Project Number: TSD-07-0103
 Reviewed By: JWatson *[Signature]*
 Date: 6/04/2007
 Permit good from 6/25/2007
 to 7/5/2007

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2000 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Caltrans Traffic Manual, Chapter 5 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and reopened to travel. Emergency access shall be provided at all times.

Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
Park Blvd between E.34 th Street and E.33 rd Street	Mon. – Fri. 9am – 4pm	Sidewalk Closure	N/A	N/A	N/A

The Contractor Shall Also include all check item:

1. Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. Provide advance notice to Oakland Police at (510) 615-5874 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. Flagger control is required. Certified Flagger is required.
7. Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. Pedestrian traffic shall be maintained and guided through the project at all times.
9. Provide advance notice to Business and Residence within 72-hours.
10. Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.



EXCAVATION PERMIT

CIVIL
ENGINEERING

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

PAGE 2 of 2

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X 0 7 0 0 5 7 4		SITE ADDRESS/LOCATION * Park Blvd. between 33rd and 34th
APPROX. START DATE 6/25/07	APPROX. END DATE 7/5/07	24-HOUR EMERGENCY PHONE NUMBER (*Permit not valid without 24-Hour number) (916) 837-1688

CONTRACTOR'S LICENSE # AND CLASS C-57 802334	CITY BUSINESS TAX # 2649225
--------------------------------------------------------	---------------------------------------

- ATTENTION:
- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # 207426
 - 48 hours prior to starting work, you **MUST CALL** (510) 238-3651 to schedule an inspection.
 - 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

1, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

1, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

1, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # 0015537-2006 Company Name State Fund

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

Signature of Permittee [Signature] Agent for Contractor Owner Date 6/8/07

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input type="checkbox"/> YES <input type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input type="checkbox"/> NO
ISSUED BY <u>[Signature]</u>		DATE ISSUED <u>2</u>	

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 3310 PARK BL Parcel# 023 -0394-002-01 Appl# X0700574

Descr Block s/w per approved TCP. And soil borings on Park Blvd Permit Issued 06/12/07
Application must be routed to the Fire Department Hazardous
Materials Management Program for review and approval.

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:
Applicant Phone# Lic# --License Classes--

Owner ATLANTIC RICHFIELD COMPANY

Contractor RESONANTSONIC X

(530) 668-2424 802334 C57 A

Arch/Engr

Agent STRATUS/ A DUDDING

(916) 837-1688

Applic Addr 220 N EAST ST., WOODLAND CA, 95776

\$414.25 TOTAL FEES PAID AT ISSUANCE
\$61.00 Applic \$300.00 Permit
\$.00 Process \$34.30 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other \$18.95 Tech Enh

JOB SITE

CITY OF OAKLAND

ADDRESS:
DIST:

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 3310 PARK BL

Parcel# 023 -0394-002-01

Appl# OB070408

Block s/w per approved TCP. And soil borings on Park Blvd Permit Issued 06/12/07
Application must be routed to the Fire Department Hazardous
Materials Management Program for review and approval.

Nbr of days: 3

Effective: 06/25/07

Linear feet: 200

Expiration: 06/27/07

SHORT TERM NON-METERED

Applicant Phone# Lic# License Classes--

Owner ATLANTIC RICHFIELD COMPANY

Contractor RESONANTSONIC

X (530) 668-2424 802334 C57 A

Arch/Engr

Agent STRATUS/ A DUBDING

(916) 837-1688

Applic Addr 220 N EAST ST. WOODLAND CA, 95776


\$483.10 TOTAL FEES PAID AT ISSUANCE	
\$61.00 Applic	\$360.00 Permit
\$.00 Process	\$40.00 Rec Mgmt
\$.00 Gen Plan	\$.00 Invstg
\$.00 Other	\$22.10 Tech Enh

JOB SITE

CITY OF OAKLAND

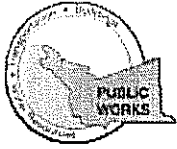
DIST: ADDRESS:

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

Applicant: _____
Issued by: _____  _____

Date: 06/12/07 Amt Paid: \$483.10
By: SKJ Register R03 Receipt# 118912

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: 06/15/2007 By jamesy

Permit Numbers: W2007-0706
Permits Valid from 06/25/2007 to 06/29/2007

Application Id: 1181847294045
Site Location: 3310 Park Blvd, Oakland, CA (north side)
Project Start Date: 06/25/2007

City of Project Site:Oakland

Completion Date:06/29/2007

Applicant: Stratus Environmental - Scott Bittinger
3330 Cameron Park Dr #550, Cameron Park, CA 95682
Property Owner: City of Oakland
250 F Ogawa Plaza, Oakland, CA 94612
Client: ** same as Property Owner **

Phone: 530-676-2067

Phone: 510-258-3466

Receipt Number: WR2007-0271 Total Due: \$200.00
Payer Name : Stratus Total Amount Paid: \$200.00
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 8 Boreholes
Driller: RSI Drilling - Lic #: 802334 - Method: other

Work Total: \$200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0706	06/15/2007	09/23/2007	8	3.00 in.	35.00 ft

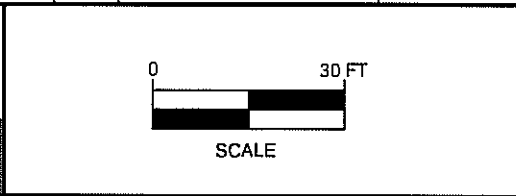
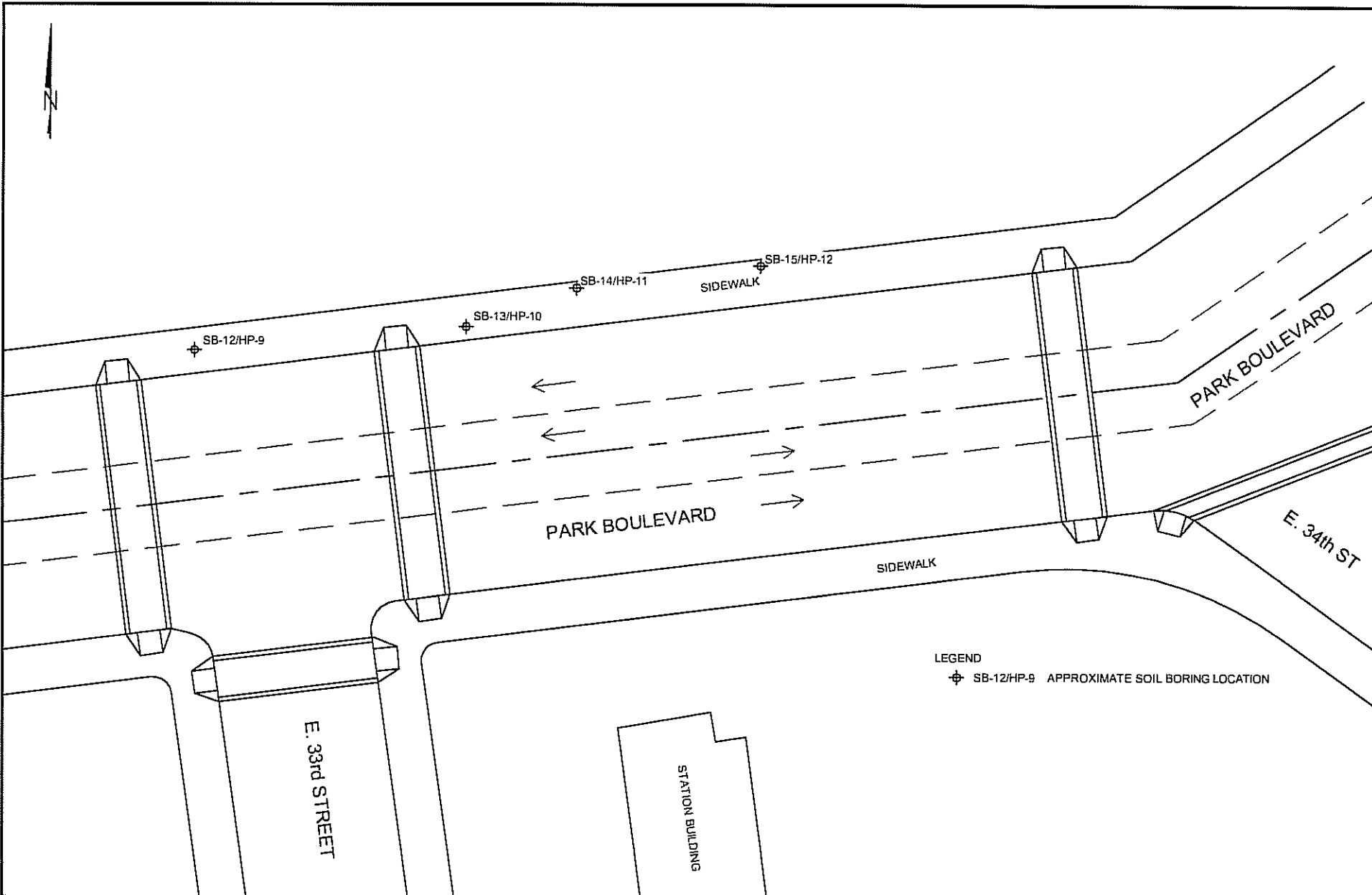
Specific Work Permit Conditions

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 permits and requirements have been approved or obtained.
5. Applicant shall contact James Yoo for an inspection time at 510-670-6633 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.

Alameda County Public Works Agency - Water Resources Well Permit

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.



ARCO SERVICE STATION NO. 2107
3310 PARK BOULEVARD
OAKLAND, CALIFORNIA

SITE PLAN

FIGURE
1
PROJECT NO.
E2107

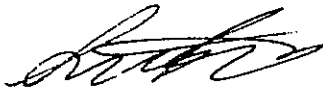
10 July, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #2107, Oakland, CA
Work Order: MQF0804

Enclosed are the results of analyses for samples received by the laboratory on 06/26/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB15-9	MQF0804-01	Soil	06/25/07 11:30	06/26/07 11:30
SB15-17	MQF0804-02	Soil	06/25/07 12:20	06/26/07 11:30
SB15-23	MQF0804-03	Soil	06/25/07 12:27	06/26/07 11:30
SB15-29	MQF0804-04	Soil	06/25/07 12:45	06/26/07 11:30
SB13-11	MQF0804-05	Soil	06/25/07 13:59	06/26/07 11:30
SB13-15	MQF0804-06	Soil	06/25/07 14:07	06/26/07 11:30
SB13-21	MQF0804-07	Soil	06/25/07 14:14	06/26/07 11:30
SB13-29	MQF0804-08	Soil	06/25/07 14:26	06/26/07 11:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB15-9 (MQF0804-01) Soil Sampled: 06/25/07 11:30 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/28/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	75-120		"	"	"	"	
SB15-17 (MQF0804-02) Soil Sampled: 06/25/07 12:20 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/28/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	75-120		"	"	"	"	
SB15-23 (MQF0804-03) Soil Sampled: 06/25/07 12:27 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
SB15-29 (MQF0804-04) Soil Sampled: 06/25/07 12:45 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	75-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB13-11 (MQF0804-05) Soil Sampled: 06/25/07 13:59 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
SB13-15 (MQF0804-06) Soil Sampled: 06/25/07 14:07 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
SB13-21 (MQF0804-07) Soil Sampled: 06/25/07 14:14 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		106 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		97 %	75-120		"	"	"	"	
SB13-29 (MQF0804-08) Soil Sampled: 06/25/07 14:26 Received: 06/26/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F28013	06/26/07	06/29/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		95 %	75-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB15-9 (MQF0804-01) Soil Sampled: 06/25/07 11:30 Received: 06/26/07 11:30									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/28/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	1B
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	60-120		"	"	"	"	
SB15-17 (MQF0804-02) Soil Sampled: 06/25/07 12:20 Received: 06/26/07 11:30									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/28/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	1B
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95 %	60-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB15-23 (MQF0804-03) Soil Sampled: 06/25/07 12:27 Received: 06/26/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0065	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

97 % 70-120

Surrogate: 1,2-Dichloroethane-d4

97 % 65-135

Surrogate: Toluene-d8

98 % 75-120

Surrogate: 4-Bromofluorobenzene

91 % 60-120

SB15-29 (MQF0804-04) Soil Sampled: 06/25/07 12:45 Received: 06/26/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

100 % 70-120

Surrogate: 1,2-Dichloroethane-d4

102 % 65-135

Surrogate: Toluene-d8

99 % 75-120

Surrogate: 4-Bromofluorobenzene

92 % 60-120

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB13-11 (MQF0804-05) Soil Sampled: 06/25/07 13:59 Received: 06/26/07 11:30									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %	60-120		"	"	"	"	
SB13-15 (MQF0804-06) Soil Sampled: 06/25/07 14:07 Received: 06/26/07 11:30									
tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %	60-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB13-21 (MQF0804-07) Soil Sampled: 06/25/07 14:14 Received: 06/26/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

104 % 70-120

"

"

"

"

"

Surrogate: 1,2-Dichloroethane-d4

106 % 65-135

"

"

"

"

"

Surrogate: Toluene-d8

97 % 75-120

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"

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"

Surrogate: 4-Bromofluorobenzene

92 % 60-120

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"

"

"

SB13-29 (MQF0804-08) Soil Sampled: 06/25/07 14:26 Received: 06/26/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F28013	06/26/07	06/29/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	IB
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

97 % 70-120

"

"

"

"

"

Surrogate: 1,2-Dichloroethane-d4

103 % 65-135

"

"

"

"

"

Surrogate: Toluene-d8

95 % 75-120

"

"

"

"

"

Surrogate: 4-Bromofluorobenzene

92 % 60-120

"

"

"

"

"

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F28013 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Blank (7F28013-BLK1)

Prepared & Analyzed: 06/28/07

Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00470		"	0.00500		94	65-135			
Surrogate: 4-Bromofluorobenzene	0.00484		"	0.00500		97	60-120			
Surrogate: Dibromofluoromethane	0.00488		"	0.00500		98	70-120			
Surrogate: Toluene-d8	0.00504		"	0.00500		101	75-120			

Laboratory Control Sample (7F28013-BS2)

Prepared & Analyzed: 06/28/07

Gasoline Range Organics (C4-C12)	0.853	0.10	mg/kg	1.00		85	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00520		"	0.00500		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.00518		"	0.00500		104	60-120			
Surrogate: Dibromofluoromethane	0.00494		"	0.00500		99	70-120			
Surrogate: Toluene-d8	0.00528		"	0.00500		106	75-120			

Laboratory Control Sample Dup (7F28013-BSD2)

Prepared & Analyzed: 06/28/07

Gasoline Range Organics (C4-C12)	0.742	0.10	mg/kg	1.00		74	45-135	14	40	
Surrogate: 1,2-Dichloroethane-d4	0.00498		"	0.00500		100	65-135			
Surrogate: 4-Bromofluorobenzene	0.00514		"	0.00500		103	60-120			
Surrogate: Dibromofluoromethane	0.00490		"	0.00500		98	70-120			
Surrogate: Toluene-d8	0.00516		"	0.00500		103	75-120			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F28013 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Blank (7F28013-BLK1)

Prepared & Analyzed: 06/28/07

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							IB
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00488</i>		"	<i>0.00500</i>		<i>98</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00470</i>		"	<i>0.00500</i>		<i>94</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00504</i>		"	<i>0.00500</i>		<i>101</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00484</i>		"	<i>0.00500</i>		<i>97</i>	<i>60-120</i>			

Laboratory Control Sample (7F28013-BS1)

Prepared & Analyzed: 06/28/07

tert-Amyl methyl ether	0.0189	0.0050	mg/kg	0.0200		95	65-140			
Benzene	0.0219	0.0050	"	0.0200		109	70-140			
tert-Butyl alcohol	0.421	0.020	"	0.400		105	75-130			
Di-isopropyl ether	0.0190	0.0050	"	0.0200		95	60-135			
1,2-Dibromoethane (EDB)	0.0208	0.0050	"	0.0200		104	70-145			
1,2-Dichloroethane	0.0218	0.0050	"	0.0200		109	75-130			
Ethanol	0.610	0.10	"	0.400		152	50-150			LR, IB
Ethyl tert-butyl ether	0.0204	0.0050	"	0.0200		102	70-125			
Ethylbenzene	0.0235	0.0050	"	0.0200		118	75-140			
Methyl tert-butyl ether	0.0205	0.0050	"	0.0200		102	75-130			
Toluene	0.0232	0.0050	"	0.0200		116	75-135			
Xylenes (total)	0.0696	0.0050	"	0.0600		116	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00480</i>		"	<i>0.00500</i>		<i>96</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00512</i>		"	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F28013 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Matrix Spike (7F28013-MS1)		Source: MQF0804-01			Prepared & Analyzed: 06/28/07					
tert-Amyl methyl ether	0.0208	0.0050	mg/kg	0.0200	ND	104	65-140			
Benzene	0.0241	0.0050	"	0.0200	ND	121	70-140			
tert-Butyl alcohol	0.455	0.020	"	0.400	ND	114	75-130			
Di-isopropyl ether	0.0213	0.0050	"	0.0200	ND	106	60-135			
1,2-Dibromoethane (EDB)	0.0237	0.0050	"	0.0200	ND	118	70-145			
1,2-Dichloroethane	0.0246	0.0050	"	0.0200	ND	123	75-130			
Ethanol	0.526	0.10	"	0.400	ND	132	50-150			IB
Ethyl tert-butyl ether	0.0228	0.0050	"	0.0200	ND	114	70-125			
Ethylbenzene	0.0257	0.0050	"	0.0200	ND	128	75-140			
Methyl tert-butyl ether	0.0278	0.0050	"	0.0200	0.00290	125	75-130			
Toluene	0.0255	0.0050	"	0.0200	ND	127	75-135			
Xylenes (total)	0.0759	0.0050	"	0.0600	ND	126	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00504</i>		"	<i>0.00500</i>		<i>101</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00520</i>		"	<i>0.00500</i>		<i>104</i>	<i>60-120</i>			

Matrix Spike Dup (7F28013-MSD1)		Source: MQF0804-01			Prepared & Analyzed: 06/28/07					
tert-Amyl methyl ether	0.0187	0.0050	mg/kg	0.0200	ND	94	65-140	11	25	
Benzene	0.0223	0.0050	"	0.0200	ND	112	70-140	8	25	
tert-Butyl alcohol	0.423	0.020	"	0.400	ND	106	75-130	7	25	
Di-isopropyl ether	0.0198	0.0050	"	0.0200	ND	99	60-135	7	40	
1,2-Dibromoethane (EDB)	0.0209	0.0050	"	0.0200	ND	104	70-145	13	30	
1,2-Dichloroethane	0.0221	0.0050	"	0.0200	ND	111	75-130	11	25	
Ethanol	0.584	0.10	"	0.400	ND	146	50-150	10	30	IB
Ethyl tert-butyl ether	0.0203	0.0050	"	0.0200	ND	101	70-125	12	30	
Ethylbenzene	0.0237	0.0050	"	0.0200	ND	118	75-140	8	30	
Methyl tert-butyl ether	0.0245	0.0050	"	0.0200	0.00290	108	75-130	13	25	
Toluene	0.0233	0.0050	"	0.0200	ND	117	75-135	9	25	
Xylenes (total)	0.0698	0.0050	"	0.0600	ND	116	75-145	8	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00516</i>		"	<i>0.00500</i>		<i>103</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00478</i>		"	<i>0.00500</i>		<i>96</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00510</i>		"	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00510</i>		"	<i>0.00500</i>		<i>102</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0804
Reported:
07/10/07 18:55

Notes and Definitions

LR LCS recovery below method control limits.
IB CCV recovery above limit; analyte not detected
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Atlantic Richfield Company



A BP affiliated company

Chain of Custody Record

Project Name: Arco Station # 2107
 BP BU/AR Region/Enfos Segment: BP America W.C. > Retail > Alameda > 2107
 State or Lead Regulatory Agency: Alameda County Health Care Services Agency
 Requested Due Date (mm/dd/yy): July 10

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>3310 Park Blvd, Oakland</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>Arco Station # 2107</u>	Address: <u>3330 Cameron Park Dr, #950 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>E-2107</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>TO6619734306</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Enfos Project No.: <u>GOC27-0006</u>	Tele/Fax: <u>530-676-6000</u>
Address: <u>2010 Crow Canyon Place #150 San Ramon, CA</u>	Provision of OOC (circle one)	Report Type & QC Level: <u>Level 1 w/ EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>01 - assessment</u>	E-mail EDD To: <u>ejewitt@stratusinc.net</u>
	Sub Phase/Task: <u>03 - analytical</u>	Invoice to: Consultant or BP of Atlantic Richfield Co. (circle one)
	Cost Element: <u>01 - contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GR	BK	S&S	17-DCA	EDB	E104			
1	SB15-9	11:30	6-25	✓			-01	1	✓						✓	✓	✓	✓	✓			
2	SB15-17	12:22	6-25	✓			-02	1	✓						✓	✓	✓	✓	✓			
3	SB15-23	12:27	6-25	✓			-03	1	✓						✓	✓	✓	✓	✓			
4	SB15-29	12:45	6-25	✓			-04	1	✓						✓	✓	✓	✓	✓			
5	SB13-11	13:59	6-25	✓			-05	1	✓						✓	✓	✓	✓	✓			
6	SB13-15	14:05	6-25	✓			-06	1	✓						✓	✓	✓	✓	✓			
7	SB13-21	14:14	6-25	✓			-07	1	✓						✓	✓	✓	✓	✓			
8	SB13-29	14:26	6-25	✓			-08	1	✓						✓	✓	✓	✓	✓			
9																						
10																						

Sampler's Name: <u>Pittinger / Fischer</u>	Relinquished By / Affiliation: <u>Steve [Signature]</u>	Date: <u>6/25/07</u>	Time: <u>1521</u>	Accepted By / Affiliation: <u>JUNE</u>	Date: <u>6/26</u>	Time: <u>1130</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>6-25-07</u>						
Shipment Method: <u>Fed Ex</u>						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.8 °F(C) | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 2107
 REC. BY (PRINT): JULIENG.
 WORKORDER: MOF0604

DATE REC'D AT LAB: 6/26/07
 TIME REC'D AT LAB: 1130
 DATE LOGGED IN: 6/28/07

For Regulatory Purpose
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Intact / Broken*								
2. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*								
3. Traffic Reports or Packing List.	Present / <input checked="" type="radio"/> Absent								
4. Airbill:	Airbill / Sticker <input checked="" type="radio"/> Present / Absent								
5. Airbill #:	<u>SEE ATTACHED</u>								
6. Sample Labels:	<input checked="" type="radio"/> Present / Absent								
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								* PLASTIC CORE
8. Sample Condition:	In <input checked="" type="radio"/> / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time?	<input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received?	<input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used?	<input checked="" type="radio"/> Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / <input checked="" type="radio"/> No*								
14. Read Temp: Corrected Temp: Is corrected temp $\pm 1-2^{\circ}\text{C}$?	<u>5.6°C</u> ↓ <input checked="" type="radio"/> Yes / No**								

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / DEF ON ICE or Problem COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

10 July, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #2107, Oakland, CA
Work Order: MQF0863

Enclosed are the results of analyses for samples received by the laboratory on 06/27/07 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB14-9	MQF0863-01	Soil	06/26/07 08:44	06/27/07 11:30
SB14-15	MQF0863-02	Soil	06/26/07 08:50	06/27/07 11:30
SB14-19	MQF0863-03	Soil	06/26/07 08:54	06/27/07 11:30
SB14-29	MQF0863-04	Soil	06/26/07 09:08	06/27/07 11:30
SB12-9	MQF0863-05	Soil	06/26/07 11:36	06/27/07 11:30
SB12-15	MQF0863-06	Soil	06/26/07 11:42	06/27/07 11:30
SB12-23	MQF0863-07	Soil	06/26/07 11:57	06/27/07 11:30
SB12-27	MQF0863-08	Soil	06/26/07 12:01	06/27/07 11:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB14-9 (MQF0863-01) Soil Sampled: 06/26/07 08:44 Received: 06/27/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		99 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
SB14-15 (MQF0863-02) Soil Sampled: 06/26/07 08:50 Received: 06/27/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		98 %	75-120		"	"	"	"	
SB14-19 (MQF0863-03) Soil Sampled: 06/26/07 08:54 Received: 06/27/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	
SB14-29 (MQF0863-04) Soil Sampled: 06/26/07 09:08 Received: 06/27/07 11:30									
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	75-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB12-9 (MQF0863-05) Soil Sampled: 06/26/07 11:36 Received: 06/27/07 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		101 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		97 %	75-120		"	"	"	"	

SB12-15 (MQF0863-06) Soil Sampled: 06/26/07 11:42 Received: 06/27/07 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	

SB12-23 (MQF0863-07) Soil Sampled: 06/26/07 11:57 Received: 06/27/07 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		105 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		96 %	75-120		"	"	"	"	

SB12-27 (MQF0863-08) Soil Sampled: 06/26/07 12:01 Received: 06/27/07 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg	1	7F30006	06/27/07	07/01/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	70-120		"	"	"	"	
Surrogate: Toluene-d8		94 %	75-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB14-9 (MQF0863-01) Soil **Sampled: 06/26/07 08:44** **Received: 06/27/07 11:30**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	60-120		"	"	"	"	

SB14-15 (MQF0863-02) Soil **Sampled: 06/26/07 08:50** **Received: 06/27/07 11:30**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	70-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	65-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	75-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	60-120		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB14-19 (MQF0863-03) Soil Sampled: 06/26/07 08:54 Received: 06/27/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

102 % 70-120

" " " "

Surrogate: 1,2-Dichloroethane-d4

100 % 65-135

" " " "

Surrogate: Toluene-d8

96 % 75-120

" " " "

Surrogate: 4-Bromofluorobenzene

90 % 60-120

" " " "

SB14-29 (MQF0863-04) Soil Sampled: 06/26/07 09:08 Received: 06/27/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane

97 % 70-120

" " " "

Surrogate: 1,2-Dichloroethane-d4

105 % 65-135

" " " "

Surrogate: Toluene-d8

99 % 75-120

" " " "

Surrogate: 4-Bromofluorobenzene

88 % 60-120

" " " "

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB12-9 (MQF0863-05) Soil **Sampled: 06/26/07 11:36** **Received: 06/27/07 11:30**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %	60-120	"	"	"	"	"	

SB12-15 (MQF0863-06) Soil **Sampled: 06/26/07 11:42** **Received: 06/27/07 11:30**

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0087	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94 %	60-120	"	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB12-23 (MQF0863-07) Soil Sampled: 06/26/07 11:57 Received: 06/27/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	60-120	"	"	"	"	"	

SB12-27 (MQF0863-08) Soil Sampled: 06/26/07 12:01 Received: 06/27/07 11:30

tert-Amyl methyl ether	ND	0.0050	mg/kg	1	7F30006	06/27/07	07/01/07	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
tert-Butyl alcohol	ND	0.020	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
Ethanol	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90 %	70-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	65-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %	75-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	60-120	"	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F30006 - EPA 5030 (pres 48h)/5035 / LUFT GCMS

Blank (7F30006-BLK1)

Prepared: 06/27/07 Analyzed: 06/30/07

Gasoline Range Organics (C4-C12)	ND	0.10	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00504		"	0.00500		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.00474		"	0.00500		95	60-120			
Surrogate: Dibromofluoromethane	0.00508		"	0.00500		102	70-120			
Surrogate: Toluene-d8	0.00502		"	0.00500		100	75-120			

Laboratory Control Sample (7F30006-BS2)

Prepared & Analyzed: 06/30/07

Gasoline Range Organics (C4-C12)	0.780	0.10	mg/kg	1.00		78	45-135			
Surrogate: 1,2-Dichloroethane-d4	0.00500		"	0.00500		100	65-135			
Surrogate: 4-Bromofluorobenzene	0.00540		"	0.00500		108	60-120			
Surrogate: Dibromofluoromethane	0.00496		"	0.00500		99	70-120			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	75-120			

Laboratory Control Sample Dup (7F30006-BSD2)

Prepared & Analyzed: 06/30/07

Gasoline Range Organics (C4-C12)	0.760	0.10	mg/kg	1.00		76	45-135	3	40	
Surrogate: 1,2-Dichloroethane-d4	0.00530		"	0.00500		106	65-135			
Surrogate: 4-Bromofluorobenzene	0.00530		"	0.00500		106	60-120			
Surrogate: Dibromofluoromethane	0.00498		"	0.00500		100	70-120			
Surrogate: Toluene-d8	0.00514		"	0.00500		103	75-120			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F30006 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Blank (7F30006-BLK1)

Prepared: 06/27/07 Analyzed: 06/30/07

tert-Amyl methyl ether	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
tert-Butyl alcohol	ND	0.020	"							
Di-isopropyl ether	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
Ethanol	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00508</i>		"	<i>0.00500</i>		<i>102</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00504</i>		"	<i>0.00500</i>		<i>101</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00502</i>		"	<i>0.00500</i>		<i>100</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00474</i>		"	<i>0.00500</i>		<i>95</i>	<i>60-120</i>			

Laboratory Control Sample (7F30006-BS1)

Prepared & Analyzed: 06/30/07

tert-Amyl methyl ether	0.0179	0.0050	mg/kg	0.0200		90	65-140			
Benzene	0.0204	0.0050	"	0.0200		102	70-140			
tert-Butyl alcohol	0.390	0.020	"	0.400		97	75-130			
Di-isopropyl ether	0.0178	0.0050	"	0.0200		89	60-135			
1,2-Dibromoethane (EDB)	0.0209	0.0050	"	0.0200		105	70-145			
1,2-Dichloroethane	0.0221	0.0050	"	0.0200		110	75-130			
Ethanol	0.421	0.10	"	0.400		105	50-150			
Ethyl tert-butyl ether	0.0199	0.0050	"	0.0200		100	70-125			
Ethylbenzene	0.0219	0.0050	"	0.0200		110	75-140			
Methyl tert-butyl ether	0.0208	0.0050	"	0.0200		104	75-130			
Toluene	0.0216	0.0050	"	0.0200		108	75-135			
Xylenes (total)	0.0648	0.0050	"	0.0600		108	75-145			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00536</i>		"	<i>0.00500</i>		<i>107</i>	<i>70-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00520</i>		"	<i>0.00500</i>		<i>104</i>	<i>65-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.00512</i>		"	<i>0.00500</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00526</i>		"	<i>0.00500</i>		<i>105</i>	<i>60-120</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7F30006 - EPA 5030 (pres 48h)/5035 / EPA 8260B

Matrix Spike (7F30006-MS1)	Source: MQF0863-02			Prepared: 06/27/07		Analyzed: 07/01/07	
tert-Amyl methyl ether	0.0190	0.0050	mg/kg	0.0200	ND	95	65-140
Benzene	0.0205	0.0050	"	0.0200	ND	103	70-140
tert-Butyl alcohol	0.385	0.020	"	0.400	ND	96	75-130
Di-isopropyl ether	0.0183	0.0050	"	0.0200	ND	92	60-135
1,2-Dibromoethane (EDB)	0.0216	0.0050	"	0.0200	ND	108	70-145
1,2-Dichloroethane	0.0227	0.0050	"	0.0200	ND	113	75-130
Ethanol	0.424	0.10	"	0.400	ND	106	50-150
Ethyl tert-butyl ether	0.0202	0.0050	"	0.0200	ND	101	70-125
Ethylbenzene	0.0221	0.0050	"	0.0200	ND	110	75-140
Methyl tert-butyl ether	0.0214	0.0050	"	0.0200	ND	107	75-130
Toluene	0.0217	0.0050	"	0.0200	ND	108	75-135
Xylenes (total)	0.0654	0.0050	"	0.0600	ND	109	75-145
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00522</i>		<i>"</i>	<i>0.00500</i>		<i>104</i>	<i>70-120</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00532</i>		<i>"</i>	<i>0.00500</i>		<i>106</i>	<i>65-135</i>
<i>Surrogate: Toluene-d8</i>	<i>0.00514</i>		<i>"</i>	<i>0.00500</i>		<i>103</i>	<i>75-120</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00510</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>60-120</i>

Matrix Spike Dup (7F30006-MSD1)	Source: MQF0863-02			Prepared: 06/27/07		Analyzed: 07/01/07			
tert-Amyl methyl ether	0.0189	0.0050	mg/kg	0.0200	ND	94	65-140	0.8	25
Benzene	0.0203	0.0050	"	0.0200	ND	102	70-140	1	25
tert-Butyl alcohol	0.387	0.020	"	0.400	ND	97	75-130	0.5	25
Di-isopropyl ether	0.0179	0.0050	"	0.0200	ND	90	60-135	2	40
1,2-Dibromoethane (EDB)	0.0210	0.0050	"	0.0200	ND	105	70-145	3	30
1,2-Dichloroethane	0.0211	0.0050	"	0.0200	ND	105	75-130	7	25
Ethanol	0.445	0.10	"	0.400	ND	111	50-150	5	30
Ethyl tert-butyl ether	0.0200	0.0050	"	0.0200	ND	100	70-125	0.9	30
Ethylbenzene	0.0217	0.0050	"	0.0200	ND	109	75-140	1	30
Methyl tert-butyl ether	0.0209	0.0050	"	0.0200	ND	105	75-130	2	25
Toluene	0.0215	0.0050	"	0.0200	ND	108	75-135	0.6	25
Xylenes (total)	0.0646	0.0050	"	0.0600	ND	108	75-145	1	30
<i>Surrogate: Dibromofluoromethane</i>	<i>0.00522</i>		<i>"</i>	<i>0.00500</i>		<i>104</i>	<i>70-120</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.00520</i>		<i>"</i>	<i>0.00500</i>		<i>104</i>	<i>65-135</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.00508</i>		<i>"</i>	<i>0.00500</i>		<i>102</i>	<i>75-120</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.00500</i>		<i>"</i>	<i>0.00500</i>		<i>100</i>	<i>60-120</i>		

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0863
Reported:
07/10/07 19:11

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name: Arco Station # 2107
 BP BU/AR Region/Enfos Segment: BP Americas > W.C. > Retail > Alameda > 2107
 State or Lead Regulatory Agency: Alameda County Health Care Services Agency
 Requested Due Date (mm/dd/yy): July 11

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>3310 Park Blvd, Oakland</u>	Consultant/Contractor: <u>Stratus Environmental, Inc.</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>Arco Station # 2107</u>	Address: <u>3330 Cameron Park Dr, # 550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>E-2107</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>T06019734306</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Enfos Project No.: <u>GOC27-0006</u>	Tele/Fax: <u>530-676-6000</u>
Address: <u>2010 Crow Canyon Place #150 San Ramon, CA</u>	Provision or OOC (circle one)	Report Type & QC Level: <u>Level 1 w/ EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>01 - assessment</u>	E-mail EDD To: <u>ejohn@stratusinc.net</u>
	Sub Phase/Task: <u>03 - analytical</u>	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)
	Cost Element: <u>01 - contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CO ₂	Asx	Seoxys	1,2-DIC	EDS	EtOH		
1	5B14-9	8:44	6-26	✓			MCQF0863	1	✓						✓	✓	✓	✓	✓		
2	5B14-15	8:50	6-26	✓			02	1	✓						✓	✓	✓	✓	✓		
3	5B14-19	8:54	6-26	✓			03	1	✓						✓	✓	✓	✓	✓		
4	5B14-29	9:08	6-26	✓			04	1	✓						✓	✓	✓	✓	✓		
5	5B12-9	11:36	6-26	✓			05	1	✓						✓	✓	✓	✓	✓		
6	5B12-15	11:42	6-26	✓			06	1	✓						✓	✓	✓	✓	✓		
7	5B12-23	11:57	6-26	✓			07	1	✓						✓	✓	✓	✓	✓		
8	5B12-27	12:01	6-26	✓			08	1	✓						✓	✓	✓	✓	✓		
9																					
10																					

Sampler's Name: <u>Pittenger / Fischer</u>	Relinquished By / Affiliation: <u>JAN SUTZ</u>	Date: <u>6-26-07</u>	Time: <u>1:30</u>	Accepted By / Affiliation: <u>Julie</u>	Date: <u>6/27</u>	Time: <u>11:30</u>
Sampler's Company: <u>Stratus Environmental, Inc.</u>						
Shipment Date: <u>6-26-07</u>						
Shipment Method: <u>Fed Ex</u>						
Shipment Tracking No: :						

Special Instructions: _____

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 3.6 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO (2107)
 REC. BY (PRINT) JULIE
 WORKORDER: M&FO863

DATE REC'D AT LAB: 6/27/07
 TIME REC'D AT LAB: 1130
 DATE LOGGED IN: 6/30/07

For Regulatory Purposes?
 DRINKING WATER YES / **NO**
 WASTE WATER YES / **NO**

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*								
2. Chain-of-Custody	Present / Absent*								
3. Traffic Reports or Packing List:	Present / Absent*								
4. Airbill:	Airbill / Sticker Present / Absent								
5. Airbill #:	<u>SEE ATTACHED</u>								
6. Sample Labels:	Present / Absent								* Plastic core
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*								
10. Sample received within hold time?	Yes / No*								
11. Adequate sample volume received?	Yes / No*								
12. Proper preservatives used?	Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*								
14. Read Temp: <u>3.6°C</u> Corrected Temp: <u>✓</u> Is corrected temp 4 +/-2°C? <u>Yes</u> / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									

Julie 6/27/07
see coc

**Exception (if any): METALS / DFF ON ICE or Problem COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

12 July, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #2107, Oakland, CA
Work Order: MQF0811

Enclosed are the results of analyses for samples received by the laboratory on 06/27/07 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

Stratus Environmental Inc. [Arco] 3330 Cameron Park Dr., Suite 550 Cameron Park CA, 95682	Project: ARCO #2107, Oakland, CA Project Number: GOC27-0006 Project Manager: Jay Johnson	MQF0811 Reported: 07/12/07 16:20
-------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	----------------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HP12-19	MQF0811-01	Water	06/25/07 17:15	06/27/07 19:00
HP12-25	MQF0811-02	Water	06/25/07 17:55	06/27/07 19:00
HP9-13	MQF0811-03	Water	06/26/07 13:10	06/27/07 19:00
HP9-21	MQF0811-04	Water	06/26/07 13:40	06/27/07 19:00
HP10-16	MQF0811-05	Water	06/26/07 15:40	06/27/07 19:00
HP10-24	MQF0811-06	Water	06/26/07 16:20	06/27/07 19:00
HP11-24	MQF0811-07	Water	06/26/07 17:00	06/27/07 19:00

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HP12-19 (MQF0811-01) Water Sampled: 06/25/07 17:15 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	l	7G03016	07/03/07	07/04/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		94 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-135		"	"	"	"	
HP12-25 (MQF0811-02) Water Sampled: 06/25/07 17:55 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	84	50	ug/l	l	7G06002	07/06/07	07/06/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		90 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		99 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97 %	60-135		"	"	"	"	
HP9-13 (MQF0811-03) Water Sampled: 06/26/07 13:10 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	51	50	ug/l	l	7G03016	07/03/07	07/04/07	LUFT GCMS	PV
Surrogate: 1,2-Dichloroethane-d4		98 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		97 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86 %	60-135		"	"	"	"	
HP9-21 (MQF0811-04) Water Sampled: 06/26/07 13:40 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	l	7G03016	07/03/07	07/04/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		94 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HP10-16 (MQF0811-05) Water Sampled: 06/26/07 15:40 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G03016	07/03/07	07/04/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		93 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		89 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-135		"	"	"	"	
HP10-24 (MQF0811-06) Water Sampled: 06/26/07 16:20 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7G05001	07/05/07	07/05/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-135		"	"	"	"	
HP11-24 (MQF0811-07) Water Sampled: 06/26/07 17:00 Received: 06/27/07 19:00									
Gasoline Range Organics (C4-C12)	59	50	ug/l	1	7G05001	07/05/07	07/05/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	60-125		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-120		"	"	"	"	
Surrogate: Toluene-d8		95 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-135		"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HP12-19 (MQF0811-01) Water Sampled: 06/25/07 17:15 Received: 06/27/07 19:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G03016	07/03/07	07/04/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	30	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	60-135	"	"	"	"	"	
HP12-25 (MQF0811-02) Water Sampled: 06/25/07 17:55 Received: 06/27/07 19:00									
tert-Amyl methyl ether	ND	1.0	ug/l	2	7G03016	07/03/07	07/04/07	EPA 8260B	
Benzene	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	600	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	110	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90 %	60-135	"	"	"	"	"	

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HP9-13 (MQF0811-03) Water Sampled: 06/26/07 13:10 Received: 06/27/07 19:00

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G03016	07/03/07	07/04/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	67	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86 %	60-135	"	"	"	"	"	

HP9-21 (MQF0811-04) Water Sampled: 06/26/07 13:40 Received: 06/27/07 19:00

tert-Amyl methyl ether	ND	0.50	ug/l	1	7G03016	07/03/07	07/04/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.4	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	75-120	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	60-125	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	60-135	"	"	"	"	"	

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Reported:
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HP10-16 (MQF0811-05) Water Sampled: 06/26/07 15:40 Received: 06/27/07 19:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G03016	07/03/07	07/04/07	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	0.78	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		97 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		60-135	"	"	"	"	
HP10-24 (MQF0811-06) Water Sampled: 06/26/07 16:20 Received: 06/27/07 19:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G05001	07/05/07	07/05/07	EPA 8260B	
Benzene	0.80	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	50	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %		75-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %		60-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		60-135	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HP11-24 (MQF0811-07) Water Sampled: 06/26/07 17:00 Received: 06/27/07 19:00									
tert-Amyl methyl ether	ND	0.50	ug/l	1	7G05001	07/05/07	07/05/07	EPA 8260B	
Benzene	0.63	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	66	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	75-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	60-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %	60-135		"	"	"	"	

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Reported:
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G03016 - EPA 5030B P/T / LUFT GCMS

Blank (7G03016-BLK1)

Prepared & Analyzed: 07/03/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.42		"	2.50		97	60-125			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.35		"	2.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	2.36		"	2.50		94	60-135			

Laboratory Control Sample (7G03016-BS2)

Prepared & Analyzed: 07/03/07

Gasoline Range Organics (C4-C12)	422	50	ug/l	500		84	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.35		"	2.50		94	60-125			
Surrogate: Dibromofluoromethane	2.44		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.55		"	2.50		102	80-120			
Surrogate: 4-Bromofluorobenzene	2.61		"	2.50		104	60-135			

Laboratory Control Sample Dup (7G03016-BSD2)

Prepared & Analyzed: 07/03/07

Gasoline Range Organics (C4-C12)	421	50	ug/l	500		84	65-120	0.3	20	
Surrogate: 1,2-Dichloroethane-d4	2.22		"	2.50		89	60-125			
Surrogate: Dibromofluoromethane	2.37		"	2.50		95	75-120			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.68		"	2.50		107	60-135			

Batch 7G05001 - EPA 5030B P/T / LUFT GCMS

Blank (7G05001-BLK1)

Prepared & Analyzed: 07/05/07

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.15		"	2.50		86	60-125			
Surrogate: Dibromofluoromethane	2.52		"	2.50		101	75-120			
Surrogate: Toluene-d8	2.44		"	2.50		98	80-120			
Surrogate: 4-Bromofluorobenzene	2.54		"	2.50		102	60-135			

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Reported:
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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G05001 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample (7G05001-BS2)				Prepared & Analyzed: 07/05/07						
Gasoline Range Organics (C4-C12)	411	50	ug/l	500		82	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		90	60-125			
Surrogate: Dibromofluoromethane	2.44		"	2.50		98	75-120			
Surrogate: Toluene-d8	2.39		"	2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.75		"	2.50		110	60-135			

Laboratory Control Sample Dup (7G05001-BSD2)				Prepared & Analyzed: 07/05/07						
Gasoline Range Organics (C4-C12)	436	50	ug/l	500		87	65-120	6	20	
Surrogate: 1,2-Dichloroethane-d4	2.28		"	2.50		91	60-125			
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-120			
Surrogate: Toluene-d8	2.37		"	2.50		95	80-120			
Surrogate: 4-Bromofluorobenzene	2.75		"	2.50		110	60-135			

Batch 7G06002 - EPA 5030B P/T / LUFT GCMS

Blank (7G06002-BLK1)				Prepared & Analyzed: 07/06/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.15		"	2.50		86	60-125			
Surrogate: Dibromofluoromethane	2.43		"	2.50		97	75-120			
Surrogate: Toluene-d8	2.39		"	2.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	2.37		"	2.50		95	60-135			

Laboratory Control Sample (7G06002-BS2)				Prepared & Analyzed: 07/06/07						
Gasoline Range Organics (C4-C12)	434	50	ug/l	500		87	65-120			
Surrogate: 1,2-Dichloroethane-d4	2.39		"	2.50		96	60-125			
Surrogate: Dibromofluoromethane	2.50		"	2.50		100	75-120			
Surrogate: Toluene-d8	2.43		"	2.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	2.53		"	2.50		101	60-135			

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Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G06002 - EPA 5030B P/T / LUFT GCMS

Laboratory Control Sample Dup (7G06002-BSD2)

Prepared & Analyzed: 07/06/07

Gasoline Range Organics (C4-C12)	427	50	ug/l	500		85	65-120	2	20	
Surrogate: 1,2-Dichloroethane-d4	2.50		"	2.50		100	60-125			
Surrogate: Dibromofluoromethane	2.52		"	2.50		101	75-120			
Surrogate: Toluene-d8	2.35		"	2.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	2.79		"	2.50		112	60-135			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G03016 - EPA 5030B P/T / EPA 8260B

Blank (7G03016-BLK1)

Prepared & Analyzed: 07/03/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.46		"	2.50		98	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.42		"	2.50		97	60-125			
<i>Surrogate: Toluene-d8</i>	2.35		"	2.50		94	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.36		"	2.50		94	60-135			

Laboratory Control Sample (7G03016-BS1)

Prepared & Analyzed: 07/03/07

tert-Amyl methyl ether	10.2	0.50	ug/l	10.0		102	65-135			
Benzene	10.0	0.50	"	10.0		100	75-120			
tert-Butyl alcohol	207	20	"	200		104	60-135			
Di-isopropyl ether	10.0	0.50	"	10.0		100	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	80-135			
1,2-Dichloroethane	9.68	0.50	"	10.0		97	70-125			
Ethanol	219	300	"	200		110	15-150			
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	65-130			
Ethylbenzene	10.2	0.50	"	10.0		102	75-120			
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	50-140			
Toluene	9.72	0.50	"	10.0		97	75-120			
Xylenes (total)	31.2	0.50	"	30.0		104	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.35		"	2.50		94	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.31		"	2.50		92	60-125			
<i>Surrogate: Toluene-d8</i>	2.26		"	2.50		90	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.47		"	2.50		99	60-135			

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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Cameron Park CA, 95682

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Project Number: GOC27-0006
Project Manager: Jay Johnson

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Reported:
07/12/07 16:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G03016 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G03016-MS1)	Source: MQF0873-01			Prepared & Analyzed: 07/03/07						
tert-Amyl methyl ether	9.51	0.50	ug/l	10.0	ND	95	65-135			
Benzene	10.2	0.50	"	10.0	ND	102	75-120			
tert-Butyl alcohol	212	20	"	200	ND	106	60-135			
Di-isopropyl ether	10.3	0.50	"	10.0	ND	103	70-130			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	ND	109	80-135			
1,2-Dichloroethane	9.74	0.50	"	10.0	ND	97	70-125			
Ethanol	199	300	"	200	ND	100	15-150			
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	65-130			
Ethylbenzene	11.5	0.50	"	10.0	ND	115	75-120			
Methyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	50-140			
Toluene	10.8	0.50	"	10.0	ND	108	75-120			
Xylenes (total)	33.2	0.50	"	30.0	ND	111	75-130			
<i>Surrogate: Dibromofluoromethane</i>	<i>2.59</i>		<i>"</i>	<i>2.50</i>		<i>104</i>	<i>75-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.40</i>		<i>"</i>	<i>2.50</i>		<i>96</i>	<i>60-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.42</i>		<i>"</i>	<i>2.50</i>		<i>97</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>3.02</i>		<i>"</i>	<i>2.50</i>		<i>121</i>	<i>60-135</i>			

Matrix Spike Dup (7G03016-MSD1)	Source: MQF0873-01			Prepared & Analyzed: 07/03/07						
tert-Amyl methyl ether	9.23	0.50	ug/l	10.0	ND	92	65-135	3	25	
Benzene	9.29	0.50	"	10.0	ND	93	75-120	10	20	
tert-Butyl alcohol	199	20	"	200	ND	99	60-135	6	25	
Di-isopropyl ether	9.53	0.50	"	10.0	ND	95	70-130	8	25	
1,2-Dibromoethane (EDB)	9.65	0.50	"	10.0	ND	96	80-135	12	30	
1,2-Dichloroethane	8.89	0.50	"	10.0	ND	89	70-125	9	25	
Ethanol	168	300	"	200	ND	84	15-150	17	25	
Ethyl tert-butyl ether	10.1	0.50	"	10.0	ND	101	65-130	8	25	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	75-120	8	20	
Methyl tert-butyl ether	9.14	0.50	"	10.0	ND	91	50-140	10	25	
Toluene	9.44	0.50	"	10.0	ND	94	75-120	13	25	
Xylenes (total)	28.9	0.50	"	30.0	ND	96	75-130	14	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>2.55</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>75-120</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.23</i>		<i>"</i>	<i>2.50</i>		<i>89</i>	<i>60-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>2.55</i>		<i>"</i>	<i>2.50</i>		<i>102</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>2.65</i>		<i>"</i>	<i>2.50</i>		<i>106</i>	<i>60-135</i>			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G05001 - EPA 5030B P/T / EPA 8260B

Blank (7G05001-BLK1)

Prepared & Analyzed: 07/05/07

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	2.52		"	2.50		101	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.15		"	2.50		86	60-125			
<i>Surrogate: Toluene-d8</i>	2.44		"	2.50		98	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.54		"	2.50		102	60-135			

Laboratory Control Sample (7G05001-BS1)

Prepared & Analyzed: 07/05/07

tert-Amyl methyl ether	9.85	0.50	ug/l	10.0		98	65-135			
Benzene	9.41	0.50	"	10.0		94	75-120			
tert-Butyl alcohol	196	20	"	200		98	60-135			
Di-isopropyl ether	9.33	0.50	"	10.0		93	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0		104	80-135			
1,2-Dichloroethane	8.38	0.50	"	10.0		84	70-125			
Ethanol	177	300	"	200		89	15-150			
Ethyl tert-butyl ether	9.89	0.50	"	10.0		99	65-130			
Ethylbenzene	10.2	0.50	"	10.0		102	75-120			
Methyl tert-butyl ether	9.74	0.50	"	10.0		97	50-140			
Toluene	9.49	0.50	"	10.0		95	75-120			
Xylenes (total)	31.0	0.50	"	30.0		103	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.35		"	2.50		94	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.17		"	2.50		87	60-125			
<i>Surrogate: Toluene-d8</i>	2.32		"	2.50		93	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.70		"	2.50		108	60-135			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7G05001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7G05001-MS1)		Source: MQF0811-06			Prepared & Analyzed: 07/05/07					
tert-Amyl methyl ether	8.47	0.50	ug/l	10.0	ND	85	65-135			
Benzene	9.55	0.50	"	10.0	0.800	88	75-120			
tert-Butyl alcohol	195	20	"	200	ND	98	60-135			
Di-isopropyl ether	9.14	0.50	"	10.0	ND	91	70-130			
1,2-Dibromoethane (EDB)	9.30	0.50	"	10.0	ND	93	80-135			
1,2-Dichloroethane	8.07	0.50	"	10.0	ND	81	70-125			
Ethanol	234	300	"	200	ND	117	15-150			
Ethyl tert-butyl ether	8.86	0.50	"	10.0	ND	89	65-130			
Ethylbenzene	10.5	0.50	"	10.0	ND	105	75-120			
Methyl tert-butyl ether	47.6	0.50	"	10.0	50.5	0	50-140			BB
Toluene	9.53	0.50	"	10.0	0.200	93	75-120			
Xylenes (total)	29.5	0.50	"	30.0	ND	98	75-130			
<i>Surrogate: Dibromofluoromethane</i>	2.29		"	2.50		92	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	1.99		"	2.50		80	60-125			
<i>Surrogate: Toluene-d8</i>	2.21		"	2.50		88	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.57		"	2.50		103	60-135			
Matrix Spike Dup (7G05001-MSD1)		Source: MQF0811-06			Prepared & Analyzed: 07/05/07					
tert-Amyl methyl ether	12.4	0.50	ug/l	10.0	ND	124	65-135	38	25	BA
Benzene	12.1	0.50	"	10.0	0.800	113	75-120	24	20	BA
tert-Butyl alcohol	207	20	"	200	ND	103	60-135	6	25	
Di-isopropyl ether	11.2	0.50	"	10.0	ND	112	70-130	21	25	
1,2-Dibromoethane (EDB)	13.5	0.50	"	10.0	ND	135	80-135	37	30	BA
1,2-Dichloroethane	11.0	0.50	"	10.0	ND	110	70-125	30	25	BA
Ethanol	199	300	"	200	ND	100	15-150	16	25	
Ethyl tert-butyl ether	12.1	0.50	"	10.0	ND	121	65-130	31	25	BA
Ethylbenzene	10.6	0.50	"	10.0	ND	106	75-120	1	20	
Methyl tert-butyl ether	72.0	0.50	"	10.0	50.5	215	50-140	41	25	BB, BA
Toluene	10.9	0.50	"	10.0	0.200	107	75-120	14	25	
Xylenes (total)	31.7	0.50	"	30.0	ND	106	75-130	7	20	
<i>Surrogate: Dibromofluoromethane</i>	2.65		"	2.50		106	75-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.63		"	2.50		105	60-125			
<i>Surrogate: Toluene-d8</i>	2.51		"	2.50		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.62		"	2.50		105	60-135			

Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park CA, 95682

Project: ARCO #2107, Oakland, CA
Project Number: GOC27-0006
Project Manager: Jay Johnson

MQF0811
Reported:
07/12/07 16:20

Notes and Definitions

PV Hydrocarbon result partly due to individ. peak(s) in quant. range
BB Sample > 4x spike concentration
BA Relative percent difference out of control
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name: Arco Station # 2107
 BP BU/AR Region/Enfos Segment: BP America W.C. Retail Alameda 2107
 State or Lead Regulatory Agency: Alameda County Health Care Services
 Requested Due Date (mm/dd/yy): July 12 1999

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Test America</u>	BP/AR Facility No.: <u>3310 Park Blvd, Oakland</u>	Consultant/Contractor: <u>Strabis Environmental, Inc.</u>
Address: <u>885 Jarvis Dr. Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>Arco Station # 2107</u>	Address: <u>3330 Cameron Park Dr., # 550 Cameron Park, CA 95682</u>
Lab PM: <u>Lisa Race</u>	Site Lat/Long:	Consultant/Contractor Project No.: <u>E-2107</u>
Tele/Fax: <u>408-782-8156</u>	California Global ID No.: <u>TO6019734306</u>	Consultant/Contractor PM: <u>Jay Johnson</u>
BP/AR EBM: <u>Paul Supple</u>	Enfos Project No.: <u>GOC27-0006</u>	Tele/Fax: <u>530-676-6000</u>
Address: <u>2010 Crow Canyon Place #150 San Ramon, CA</u>	Provision or OOC (circle one)	Report Type & QC Level: <u>Level 1 w/ EDF</u>
Tele/Fax: <u>925-275-3506</u>	Phase/WBS: <u>01 - assessment</u>	E-mail EDD To: <u>ejohn@ciwit@strabisinc.net</u>
	Sub Phase/Task: <u>03 - analytical</u>	Invoice to: Consultant or BP of Atlantic Richfield Co. (circle one)
	Cost Element: <u>01 - contractor labor</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GLD	BTEX	SXYS	VOCs	EDB	ED10H			
1	HP12-19	17:15	6-25	✓			-01	5							✓	✓	✓	✓	✓	✓		
2	HP12-25	17:55	6-25	✓			-02	5							✓	✓	✓	✓	✓	✓		
3	HP9-13	13:10	6-26	✓			-03	5							✓	✓	✓	✓	✓	✓		
4	HP9-21	13:40	6-26	✓			-04	5							✓	✓	✓	✓	✓	✓		
5	HP10-16	15:40	6-26	✓			-05	5							✓	✓	✓	✓	✓	✓		
6	HP10-24	16:20	6-26	✓			-06	5							✓	✓	✓	✓	✓	✓		
7	HP11-24	17:00	6-26	✓			-07	5							✓	✓	✓	✓	✓	✓		
8																						
9																						
10																						

Sampler's Name: <u>Bittinger / Fischer</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>Strabis Environmental, Inc.</u>	<i>[Signature]</i>	<u>6/27</u>	<u>08:07</u>	<u>Jessie Test America W.C.</u>	<u>6/27</u>	<u>08:07</u>
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						
Special Instructions:				<u>Bruce Anderson</u>	<u>6/27/07 1900</u>	

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / (No) | Cooler Temp on Receipt: 2.2 °F | Trip Blank: Yes / (No) | MS/MSD Sample Submitted: Yes / (No)

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Arco 2107
 REC. BY (PRINT) A.M.
 WORKORDER: MAFO 811

DATE REC'D AT LAB: 6/27/07
 TIME REC'D AT LAB: 1900
 DATE LOGGED IN: 6/28/07

For Regulatory Purposes?
 DRINKING WATER YES NO
 WASTE WATER YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*								See COC 6/27/07 A.M.
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*								
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent								
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent								
5. Airbill #:								
6. Sample Labels: <input checked="" type="radio"/> Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*								
14. Read Temp: <u>22°C</u> Corrected Temp: <u>22°C</u> Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**								

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / OFF ON ICE or Problem COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION PAGES

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Confirmation Number: 6450962722
Date/Time of Submittal: 8/29/2007 9:32:48 AM
Facility Global ID: T06019734306
Facility Name: ARCO #2107
Submittal Title: SWI Soil Sampling 0607
Submittal Type: Soil & Water Investigation Report

Click [here](#) to view the detections report for this upload.

ARCO #2107 Regional Board
3310 PARK
OAKLAND, CA 94610 Local Agency (lead agency) - Case #: RO0002526
ALAMEDA COUNTY LOP - (SP)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
6450962722	SWI Soil Sampling 0607	Q2 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	8/29/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	SOIL

METHOD QA/QC REPORT

METHODS USED	8260TPH,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as BROADBENT-C (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

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Confirmation Number: 8775404751
Date/Time of Submittal: 8/29/2007 9:36:24 AM
Facility Global ID: T06019734306
Facility Name: ARCO #2107
Submittal Title: SWI Soil Sampling 0607
Submittal Type: Soil & Water Investigation Report

Click [here](#) to view the detections report for this upload.

ARCO #2107 **Regional Board**
3310 PARK
OAKLAND, CA 94610 **Local Agency (lead agency) - Case #: RO0002526**
ALAMEDA COUNTY LOP - (SP)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
8775404751	SWI Soil Sampling 0607	Q2 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	8/29/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	SOIL

METHOD QA/QC REPORT

METHODS USED	8260TPH,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 6531985819
Date/Time of Submittal: 8/29/2007 9:26:56 AM
Facility Global ID: T06019734306
Facility Name: ARCO #2107
Submittal Title: SWI GW Sampling 0607
Submittal Type: Soil & Water Investigation Report

Click [here](#) to view the detections report for this upload.

ARCO #2107 **Regional Board**
3310 PARK
OAKLAND, CA 94610 **Local Agency (lead agency) - Case #: RO0002526**
ALAMEDA COUNTY LOP - (SP)

<u>CONF #</u>	<u>TITLE</u>	<u>QUARTER</u>
6531985819	SWI GW Sampling 0607	Q2 2007
<u>SUBMITTED BY</u>	<u>SUBMIT DATE</u>	<u>STATUS</u>
Broadbent & Associates, Inc.	8/29/2007	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	7
# FIELD POINTS WITH DETECTIONS	7
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA,8260TPH
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125% n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.