Innovative Environmental Remediation, Inc.

February 8, 2010

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

RE: High Vacuum Dual Phase Extraction Pilot Test and Interim Remedial Action Report

Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601

LOP StID# 2118
ACEH Case No. RO0000096
USTCF Claim No. 014551

Dear Mr. Wickham:

Innovative Environmental Remediation, Inc. (IERI) has prepared this report entitled *"High Vacuum Dual Phase Extraction Pilot Test and Interim Remedial Action Report"* for the above referenced site for your review. If you have any questions regarding this report, please do not hesitate to contact the undersigned at (925) 708-8387 or (925) 943-6445.

Sincerely,
IERI

Jim Ho, Ph.D., P.E.
Principal Engineer

Enclosure

High Vacuum Dual Phase Extraction Pilot Test and Interim Remedial Action Report

Eagle Gas
4301 San Leandro Street
Oakland, California 94601

LOP StID# 2118
Fuel Leak Case No. RO0000096
USTCF Claim No. 14551

Prepared for:

Ms. Farah Naz
Mr. Muhammad Jamil

Prepared by:

Innovative Environmental Remediation, Inc.
Walnut Creek, California

February 2010

Mr. Jerry Wickham
Hazardous Materials Specialist

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

RE: Eagle Gas Station
4301 San Leandro Street
Oakland, California 94601

LOP StID# 2118
Fuel Leak Case No. RO0000096
USTCF Claim No. 014551

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location, I have reviewed the *High Vacuum Dual Phase Extraction Pilot Test and Interim Remedial Action Report* prepared by my consultant of record, Innovative Environmental Remediation, Inc. (IERI) of Walnut Creek, California. I declare, under penalty of perjury, that the information and/or recommendations contained in this document or report are true and correct to the best of my knowledge.

Sincerely,

Muhammad Jamil

Mr. Muhammad Jamil

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1. INTRODUCTION

Between 1999 and 2005, three interim remedial actions were proposed, but none of them have been implemented for the subject site located at 4301 San Leandro Street, Oakland, California. Their remedial approaches are summarized in Appendix A of the *Interim Remedial Action Work Plan* (ERS, 2009a). Based on the developed Site Conceptual Model and all the soil/groundwater investigations, as well as the groundwater monitoring/sampling results, the referred Work Plan proposed an effective interim remedial action and a pilot test. Alameda County Environmental Health's (ACEH's) review comments for the Work Plan are included in the July 9, 2009 letter (see Appendix A). ACEH also requested a work plan addendum to expand the discussion of field operations and monitoring during the proposed High Vacuum Dual Phase Extraction (HVDPE) event. The submitted *Work Plan Addendum for DPE Interim Remedial Action* (ERS, 2009b) was reviewed by ACEH. The regulatory concurrence of the 30-day interim remedial action and a pilot test using HVDPE is shown in ACEH's October 2, 2009 letter (see Appendix B).

At the request of Ms. Farah Naz and Mr. Muhammad Jamil, Innovative Environmental Remediation, Inc. (IERI) conducted the approved interim remedial action and pilot test from December 10, 2009 through January 10, 2010 (a total of 31 days). On behalf of Ms. Naz and Mr. Jamil, IERI prepared a technical report for the 2009 - 2010 interim remedial action and pilot test. The purposes of this technical report are:

- Presentation of the measured groundwater depth and induced vacuum in the observation wells selected for each sub-area of the subject site.
- Evaluation of the range of influence resulting from the stresses of HVDPE.
- Presentation of the measured HVDPE system data.
- Estimation of the amount of hydrocarbons removed from the subsurface.
- Evaluation of the performance of the interim remedial action based on the results of the abatement of soil vapor and groundwater.
- Identification of "hot spot" locations where higher contamination is located or more contaminants can be extracted.

The field recorded HVDPE system operational data and the laboratory reports for the collected vapor and groundwater samples are included in Appendices C and D.

1.1 Summary of Findings

(1) The estimated ranges of influence under HVDPE system vacuums between 13 and 15-inch mercury (Hg) for Target Areas A, B, and C ranged between 27 to 48 feet, 5 to 27 feet, and 10 to 38 feet, respectively.

(2) Elevated vapor concentrations were measured at wells D5 and EW-1. A "hot spot" likely exists in the vicinity of these two wells.

(3) The Horiba VOC Analyzer and the Tedlar bag provide data with similar quality. Based on the Horiba Analyzer and the Tedlar bag data, the average amount of petroleum hydrocarbons removed during the HVDPE pilot test and interim remediation was approximately 3,600 pounds, which is equivalent to 575 gallons of gasoline.

(4) The calculated mass removal rates for Target Areas A, B, and C were 5.45, 4.39, and 4.03 pounds per hour, respectively.

(5) The extracted total influent vapor concentrations approaching to the end of the tests for Target Areas A, B, and C were 2,000, 1,300, and 600 ppmv, respectively.

(6) In addition to extracting and treating 22,510 gallons of groundwater, about 5 gallons of floating product was also extracted from wells MW-8, IS-3, and D10.

(7) Comparing the summer 2009 semi-annual groundwater sampling and the groundwater data collected at the end of the interim remediation show that significant groundwater concentration reduction was observed in many wells, except for well MW-7D. However, the groundwater concentration change prior to and after the pilot test was not significant.

(8) "Hot spots" exist south of the building near wells EW-1, D5, D12, and D4 and north of the building near wells D3, IS-3, D1, and D2. Location of these "hot spots" is consistent with the center of the TPH-g and MTBE plumes.

1.2 Summary of Conclusions

(1) Based on the vacuum and groundwater concentration data, the deep groundwater zone is isolated from the shallow zone.

(2) Significant amounts of hydrocarbon still remain in the subsurface. Both vapor and groundwater concentration data indicate that the groundwater impact, particularly under Target Areas A and B, was not greatly reduced.

(3) Since significant vapor concentrations were measured at the end of the pilot test for each target area, and the groundwater impact remained at a similar level after interim remediation, 8 to 14 days of extraction was not sufficient for remediation.

(4) Based on the hydrocarbons removal rates and the quantity of mass removed, HVDPE has demonstrated to be an efficient remedial technology.

(5) Elevated vapor concentrations sustained in DPE wells D3, D4, D5, D12, EW-1, and IS-3. These wells should be the focus of extraction in the future remediation.

(6) Wells D7, D10, D11, and D12 appear to sufficiently influence the area under the building. Although wells D10 and D11 may not be productive for mass removal, these two wells can be used to generate a cone of depression to collect floating products.

2. BACKGROUND INFORMATION

2.1 Site Overview

The site, Eagle Gas Station, is located in a mixed residential and commercial area in the southern portion of the City of Oakland, Alameda County, California. The location is approximately 1,100 feet northeast of Interstate Highway 880, at the southern corner of the intersection of San Leandro Street and High Street (Figure 1). The site is an active gasoline service station and is bounded by commercial properties to the southeast and southwest, by High Street to the northwest, and San Leandro Street to the northeast. The Site Plan, with on-site well locations, is shown in Figure 2.

A more extensive overview of the local hydrogeology, UST removal history, site investigation history, and contaminants of concern is presented in the *Semi-Annual Groundwater Monitoring Report - Summer 2009* (ERS, 2009c).

2.2 DPE Wells Installed for HVDPE Pilot Test and Interim Remedial Action

Twelve 4-inch diameter DPE wells were installed from September 29 through October 1 and October 6 and 7, 2009. Based on the soil investigation and historical groundwater sampling data, only the shallow zone is contaminated at a maximum depth of 25 feet below ground surface (bgs). Thus, all the DPE wells were screened in the shallow zone above the depth of 25 feet bgs (ERS, 2009a). Wells D7, D10, D11, and D12 were angle wells with angles of 36, 40, 36, and 40 degree, respectively, relative to the vertical line. These four wells were screened from 10 to 30 feet along the slanted well casing. Eight vertical wells D1 through D6, D8, and D9 were screened from 8 to 23 feet bgs. It should be noted that well D9 was originally proposed as an angle well in the Interim Remedial Action Work Plan (ERS, 2009a). It was changed to a vertical well because too much pea gravel was found at the location proposed for D9 during drilling. Since the proposed D9 location was not appropriate for the installation of an angle well, the nearest vertical well D7 (also near the building) was changed to an angle well to substitute the function of well D9. Well EW-1 is an existing 4-inch diameter groundwater extraction well. The location map of all the DPE wells D1 through D12 and well EW-1 used for the pilot test/interim remediation, as well as the boundaries of the Total Petroleum Hydrocarbons as gasoline (TPH-g) and Methyl Tertiary Butyl Ether (MTBE) plumes are shown in Figure 3.

It should be noted that, except for the vapor wells, all the shallow observation wells selected for the pilot test were screened ranging from 6 to 25 feet bgs. This range

horizontally coincides with the screen interval described above for all the vertical DPE wells. Deep observation wells were screened from 33 to 45 feet bgs, and vapor wells were screened from 3 to 9 feet bgs.

3. INTERIM REMEDIAL ACTION AND PILOT TEST ACTIVITIES

Following IERI's notice to ACEH for the interim remedial action/pilot test (Appendix E), a mobile HVDPE system owned by CalClean, Inc. of Tustin, California was mobilized to the site on December 8, 2009. The HVDPE system included a water treatment unit containing two 500-pound activated-carbon vessels and a low-noise, truck-mounted Dual Phase Extraction (DPE) unit that included a high-vacuum/oil-sealed liquid-ring blower with a maximum design flow of 450 Actual Cubic Feet per Minute (ACFM) and a propane-fired thermal/catalytic oxidizer. (Note: since the extracted vapor concentration from the subject site was often relatively high, the oxidizer was mostly run in the thermal mode with the oxidation chamber temperature greater than 1,400°F from December 10, 2009 through January 4, 2010. Since the extracted vapor concentration was not higher than 10,000 ppmv, no vapor dilution by air was needed. The HVDPE system operational data is included in Appendix C.) The HVDPE unit was tested and started to extract sufficient groundwater from monitoring wells MW-2, MW-4, MW-7, and groundwater extraction wells EW-1 and EW-2. The extracted groundwater from these wells was stored in a 250-gallon holding tank and treated by the carbon treatment unit. Samples of treated groundwater were sent to a State of California certified laboratory, Associated Laboratories of Orange, California, overnight with a 24-hour turn-around-time. The laboratory analytical report was forwarded to the East Bay Municipal Utility District (EBMUD) on December 9, 2009 to complete the application for sewer discharge of treated groundwater. All the permits required for the interim remedial action/pilot test, including the EBMUD sewer special discharge permit (#50586682) and the air emission permit (Bay Area Air Quality Management District, Plant # 12568) are included in Appendix F.

One existing 4-inch diameter groundwater extraction well (EW-1) and twelve 4-inch diameter DPE wells, including four angle wells (D7, D10, D11, and D12) installed under the gas station building and eight vertical wells D1 through D6, D8, and D9, were used as dual-phase extraction wells. The heads of all extraction wells were properly sealed with FERNCO 1056-215 vacuum boots. The individual and combined-influent vapor concentrations of extraction wells were measured with a petroleum hydrocarbon Horiba Volatile Organic Carbon (VOC) Analyzer and also sampled with Tedlar bags in the field. The interim remedial action and pilot was performed continuously 24 hours a day for 31 days from December 10, 2009 through January 10, 2010.

According to the operation plan presented in Table 1 of the work plan addendum (ERS, 2009b), the interim remediation and pilot test was conducted for three sub-areas (Target Areas A, B, and C) associated with three test groups (Test Groups A, B, and C). The measured data was transferred, analyzed, and evaluated daily during the remedial action/pilot test. Based on the individual and combined-influent vapor concentrations, as well as the calculated contaminant mass removal rate, the operation of the HVDPE system and the selection of DPE wells were adjusted and modified. In addition, vapor wells VP-3, VP-4, and VP-6 listed in Table 1 of the work plan addendum (ERS, 2009b) were found covered or cemented on December 8, 2009. Thus, only the vacuum from vapor wells VP-2, approximately 24 feet west of well MW-7, and VP-5, approximately 10 feet east of EW-2, was measured during the pilot test. Wells VP-3, VP-4, and VP-6 were not available. The well head of monitoring well MW-2 was sealed off during the pilot test in order to prevent the extraction efficiency of D6. Based on the modifications described above, the extraction and/or observation wells originally selected for each test group shown in Table 1 of the work plan addendum (ERS, 2009b) were modified. All the wells adopted for the interim remedial action and pilot test are listed in Table 1 of this report. Groundwater samples and Tedlar bag air samples were collected from the observation wells specified in Table 1 of this report at the beginning and end of each test group. The collected water and air samples were also delivered to the State of California certified laboratory, Associated Laboratories, for analysis. Locations of the observation wells are also shown in Figure 3.

The groundwater depths of all the HVDPE extraction wells and observation wells for each test group were measured prior to the startup of each test group. The measured groundwater depth of each extraction well was used to determine the initial DPE stinger depth. Some of the initial stinger depths were adjusted during the interim remediation to improve the mass removal efficiency of the HVDPE system.

4. RESULTS OF PILOT TEST AND INTERIM REMEDIAL ACTION

Based on the Fourth Quarter 2008 (4Q08) groundwater sampling data, the delineated TPH-g and MTBE plumes were generally oriented in the south-north direction (see Figure 3). Thus, the DPE wells described in Section 2.2 are located primarily within the boundaries of the above plumes. Also, the pilot test groups A, B, and C focused on the sub-areas (Target Areas A, B, and C) south, north, and under the building, respectively. The pilot test/interim remediation was conducted sequentially in the order of Test Groups A, B, and C as shown in Table 1.

In general, the pilot test/interim remediation attempted to accomplish the following tasks:

Task 1 - The induced vacuums and groundwater depths measured from the observation wells (vapor wells and groundwater monitoring wells) assigned for each test group (see Table 1) were used to evaluate the range of influence created by the extraction wells.

Task 2 - The extracted vapor concentrations of individual wells and the combined-influent from a number of wells were measured to estimate the amount of contaminants removed from subsurface and assist in the adjustment of extraction wells during the interim remediation.

Task 3 - The change in vapor and groundwater concentrations measured or sampled at the beginning and end of each test group specified in Table 1 was used to evaluate the performance of the HVDPE system and the DPE wells, as well as to identify the location of 'hot spots'' under the site.

The data and results of the above tasks are presented in the following sections:

4.1 Groundwater Depth and Induced Vacuum (Task 1)

During the HVDPE pilot test, the distribution of the induced vacuum in the subsurface caused by the vacuum in DPE wells and the associated hydraulic stress was measured in the observation wells. The field-measured vacuum and groundwater data presented in Appendix C fluctuated from time to time each day. Thus, only average values of vacuum were calculated to demonstrate the range of influence created by the HVDPE. The daily average vacuum and groundwater depth, as well as the average vacuum for the entire test period, in Target Areas A, B, and C are presented in Tables 2, 3, and 4, respectively. The stinger depth within each DPE well is also shown in Table 5.

4.2 Evaluation of Range of Influence (Task 1)

Target Area A

The five DPE wells D5, D6, D8, D9, and EW-1 were extracted at a system vacuum between 13- and 17-inch Hg. Most of the time, the system vacuum was maintained at 15-inch Hg. Average induced vacuums of 0.15, 0.25, 3.41, and 0.2 inch were measured in wells VP-2, VP-5, MW-4, and MW-7. The distance between D5 and VP-5 is approximately 48 feet and the distance between D8 and VP-2 is approximately 27 feet. The pilot test data shows that:

- The range of influence within Target Area A was between 27 and 48 feet under a total system vacuum of 15-inch Hg.
- Even though well MW-4D is only between 4.5 and 6 feet away from the extraction wells D5 and EW-1, respectively, no significant vacuums were measured in deep zone wells MW-4D and MW-7D.
- The test results indicate that the deep groundwater zone is isolated from the shallow zone. This conclusion is consistent with the available lithologic data.

Target Area B

Wells D1 through D4 were selected for the pilot test in Target Area B. The HVDPE was run at a system vacuum of 15-inch Hg during the test. Although wells D5 and EW-1 in Target Area A were retained for the continuous mass removal due to their elevated level of vapor concentrations, these two wells are far away from the Target Area B and should have no effect on the pilot test results. Observation wells MW-5, MW-6, and IS-1 are more than 25 feet from the nearest DPE wells. No significant vacuum was measured in wells MW-5, MW-6, and IS-1. Most interestingly, no significant vacuum was found in well MW-8, even though it is only 5 feet from DPE well D1. Induced vacuums of 0.39, 0.24, and 0.08 inch Hg were measured in wells IS-4, IS-6, and MW-3. These wells are 10, 27 and 18 feet from the nearest DPE well, respectively. The above data suggests that:

- The lithology in Target Area B likely is very heterogeneous. Depending on the soil permeability, the range of influence in Target Area B can be less than 5 feet and as far as 27 feet.
- The soil near well MW-8 may have low permeability. This explains the presence of floating product in this well.

Target Area C

Wells D5 and EW-1 were shut off during Test Group C because these two wells are close to Target Area C. Slant wells D7, D10, D11, and D12 were the major DPE wells for Target Area C. However, wells IS-3, MW-8, D3, and D4 were also connected to the vacuum system for various periods of time during Test Group C because floating product was found in wells MW-8 and IS-3, and elevated vapor concentration was measured in wells D3 and D4 during the Test Group B.

The system vacuum reduced to 13 inch-Hg because the slant wells have longer screen. No significant vacuum was measured in wells IS-1 and IS-4. Induced vacuums of 0.11, 1.46, 3.75, 0.51, and 0.06-inch Hg were measured in wells MW-7, MW-8, IS-3, IS-5, and VP-2, respectively. Most interestingly, an induced vacuum of 1.46-inch Hg, likely attributed by well D11, was measured in MW-8, which did not receive any vacuum from vertical DPE well D1. Since well D11 is a slant well also screened to a depth of 23 ft bgs like other vertical wells, the heterogeneity of Target Area B was again demonstrated. It is also interesting that floating product was not found in MW-8 during the Test Group B, while no vacuum was measured. However, when 1.46 and 3.75-inch Hg vacuums were measured in wells MW-8 and IS-3, floating product was observed in the two wells the day after the extraction of slant wells. This observation suggests that slant wells D10 and D11 likely generated a local groundwater cone of depression that collected floating product into the area near wells MW-8 and IS-3.

Since wells IS-3 and IS-5 are approximately 10 and 18 feet away from DPE wells D11 and D12, and the well VP-2 at a distance of 38 feet between wells D7 and D11, the pilot test results for Target Area C suggest that:

- The range of influence with slant wells D7, D10, D11, and D12 extracted together may range from 10 to 38 feet.
- Wells D7, D10, D11, and D12 can completely influence the impact area under the building.

4.3 DPE System Operation and HVDPE Data (Task 2)

The selected DPE wells shown in Table 1 were connected to the HVDPE system during the pilot test for each test group and the interim remediation. All DPE wells for Target Area A were individually extracted prior to the beginning of Test Group A. The measured vapor concentrations of individual wells at the beginning of the test were 3,190 (D5), 11 (D6), 158 (D8), 33 (D9), and 8,210 ppmv (EW-1). The combined vapor

concentration at the beginning of the pilot test/interim remediation for Target Area A on December 10, 2009 at 17:00 hour was 3,580 ppmv. The system was run at a vacuum of 17 inch-Hg with a combined inflow of 183 standard cubic feet per minute (scfm). The oxidation chamber temperature was 1,457 °F. The system data was measured hourly for 5 hours. After that, the measurement frequency was reduced to once every 4 hours until December 13, 2009. Measurement was then conducted five times daily until the end of the pilot test. The extracted vapor concentration from each individual DPE well was measured at 8:00 and 20:00 hour during the pilot test. The measured individual vapor concentrations were used to assist the valve and/or stinger depth adjustment, as well as to change the use of DPE wells. The initial vapor concentrations for wells D5, D6, D8, D9, and EW-1 at the beginning of the Test Group A suggest that:

- A "hot spot" exists in the vicinity of wells D5 and EW-1, which is consistent with the 4Q08 groundwater concentration data collected from monitoring well MW-4.

In order to enhance the total mass removal for both TPH and MTBE, as well as to remove the "hot spots," the following approaches were implemented during the pilot test and interim remediation:

1. Wells D5 and EW-1 were retained for the Test Group B. (Note: these two wells were thus continuously extracted for 22 days from December 10, 2009 until January 1, 2010.)

2. Stinger depth in the DPE wells was kept close to the bottom of the shallow zone to extract as much groundwater as possible. (Note: although hydrocarbons can be more effectively removed through the vapor phase, deeper stinger depth increases the extraction of groundwater impacted by MTBE.)

3. Stinger depth was kept near or above the middle of the well screen when the extracted individual vapor concentration was high or a "hot spot" was identified.

4. The monitoring wells were also extracted when floating product was found.

5. The oxidizer was converted from the thermal mode to the catalytic mode when the influent vapor concentration was near 1,100 ppmv.

The system operational data provided by CalClean is included in Appendix C.

4.4 Estimation of Hydrocarbon Mass Removal (Task 2)

The quantity of hydrocarbons removed through the extracted vapor was calculated based on the influent vapor concentration, influent flow rate, and extraction time interval. The formula used to calculate the mass of hydrocarbons removed through vapor phase is shown below:

Hydrocarbon Removed (lbs) = Influent Vapor Concentration (ppmv) x Influent Flow Rate (scfm) x Time Interval (minutes) x (4.16 μg/L/ppmv) x (1 lb/453.6 g) x (1 g/10^6 μg) x 28.32 L/scfm

The Horiba VOC Analyzer data was used to calculate the amount of hydrocarbon mass removed. The calculated results are listed in Table 5. Based on the field measured vapor concentrations, the total mass of petroleum hydrocarbon (TPH) removed from Test Groups A, B, and C was approximately 1,830, 842, and 870 pounds, respectively, equivalent to 292, 134, and 139 gallons of gasoline. The average TPH mass removal rate for Test Groups A, B, and C was 5.45, 4.39, and 4.03 lbs/hr, respectively. The change of cumulative mass removal with time for Test Groups A, B, and C are shown in Figures 4 through 6.

The HVDPE removed a total of 3,542 pounds of petroleum hydrocarbons (equivalent to 565 gallons of gasoline) from the subject site during the 31-day interim remediation. The associated mass removal rates were relatively high compared with most petroleum hydrocarbon contaminated sites. However, the relatively straight slopes of the cumulative mass removal curves shown in Figures 5 and 6 suggest that:

- Significant amount of hydrocarbon still exists in the subsurface.

The mass removed was also calculated based on the influent concentrations determined by the Tedlar bag sampling data included in Table 13 and the average total system influent flow rate provided by CalClean. The total amount of hydrocarbons removed calculated based on the Tedlar bag data was 3,660 pounds, equivalent to 584 gallons of gasoline. It demonstrates that:

- The amount of mass removal calculated using the Tedlar bag data is very close to the amount determined by the Horiba Analyzer data.

5. PERFORMANCE OF THE HVDPE (TASK 3)

Diminishment of Extracted Vapor Concentrations

Hydrocarbons in the vadose zone, capillary fringe, and saturated zone can be extracted and/or stripped from the adsorbed and dissolved phases into the gas phase. As such, to improve the mass removal rate, the following operational measures were adopted during the operation: changing the extraction well, number of wells connected to the system, and the depth of stinger. Table 5 shows how these operational measures were adjusted and how the system vacuum was affected. During the system startup, the system vacuum varied between 13- and 17-inch Hg. After that, the system was maintained between 13- and 15-inch Hg during the pilot test depending on the number of wells connected to the system and the depth of stinger.

The data shown in Table 5 indicates that the measured influent vapor concentrations fluctuated significantly. In order to visualize the variation and the trend, the combined influent vapor concentrations for Target Areas A, B, and C are plotted in Figures 7, 8, and 9, respectively. The extracted vapor concentrations from Target Area A show that:

- Target Area A is highly impacted with the initial extracted vapor concentration greater than 3,000 ppmv (Note: A sudden reduction of extracted concentration was due to the temporary close off of wells D5 and EW-1 at 12:00 hour of December 16, 2009 for changing the stinger from 20 feet to 17 feet.)

- Extracted vapor concentration remained at a level of 2,000 ppmv close to the end of the extraction. It suggests that Target Area A still has elevated groundwater impact.

Similar to Target Area A, the extracted vapor concentrations from Target Area B show that:

- A relatively high vapor concentration of greater than 1,200 ppmv remained during the entire test period.

- The concentration level remained unchanged or increased.

- Target Area B was not cleaned up at the end of the test.

The extracted vapor concentrations from Target Area C show that:

- A relatively high vapor concentration of greater than 1,000 ppmv was maintained most time of the test.
- The extracted vapor concentration decreased during the test.
- The slant wells under the building were effective. However, the final combined influent vapor concentration for this area was still greater than 600 ppmv.

In addition to Figures 6, 7, and 8, the extracted vapor concentrations at the beginning and end of the test are presented in Tables 6, 7, and 8. The data for Target Area A presented in Table 6 shows that the extracted vapor concentrations at the end of the test were respectively 4 and 8 times lower than the beginning vapor concentrations for wells D5 and EW-1, where elevated groundwater impact was identified. The test results reveal that:

- Although Target Area A still has an elevated groundwater impact, HVDPE is an efficient technology.
- The fourteen-day interim remediation in Target Area A was not sufficient for Target Area A.

The extracted vapor concentrations at the beginning and the end of the test presented in Table 7 for Target Area B also show that:

- The extracted vapor concentrations at the end of the test in Target Area B were not significantly reduced.
- Target Area B still has an elevated groundwater impact. The 8-day interim remediation in Target Area B was not sufficient.

Based on the Horiba Analyzer and/or Tedlar bag data presented in Table 8 for Target Area C, the extracted vapor concentrations at the end of the test was 2 to 7 times lower than the beginning concentrations. However,

- Significant vapor concentrations remained at the end of the test.
- The 9-day interim remediation in Target Area C was not sufficient.

The above findings and conclusions were obtained based on the Horiba VOC Analyzer and Tedlar bag data. To confirm the reliability of the Horiba data, the laboratory-analyzed Tedlar bag data was used. The collected Tedlar bag samples were analyzed by Associated Laboratories using EPA Method 8015M. All the available Horiba Analyzer

and Tedlar bag data presented in Tables 6 through 8, as well as all the sampled data for system combined influent, are compiled and analyzed in Table 13. The average values and standard deviations reveal that:

- The Horiba VOC Analyzer and the Tedlar bag provide data with similar quality.
- The Horiba VOC Analyzer data has less variation and appears more consistent than the Tedlar bag data.

The Horiba Analyzer and Tedlar bag data have a strong correlation, with a calculated correlation coefficient of 0.9. To demonstrate the correlation and consistency, a scatter plot for Horiba Analyzer and Tedlar bag data is also plotted in Figure 10. All the data is scattered around the 45 degree theoretical line, where both the Horiba Analyzer and Tedlar bag values are identical. Since a large amount of Horiba Analyzer data is available and higher consistency is demonstrated by the Horiba VOC Analyzer, the calculated total mass removed with the Horiba Analyzer data is very reliable. The Tedlar Bag analysis data and the associated laboratory reports are included in Appendix D.

Diminishment of Concentrations in Groundwater

In addition to the removal of 3,542 pounds of hydrocarbons in the vapor phase, 22,510 gallons of groundwater were extracted by the DPE system during the interim remediation. The extracted groundwater was treated by activated carbon. To assist the performance evaluation, the TPH-g, benzene, and MTBE concentrations of the observation wells proposed in Table 1 are presented in Tables 9, 10, and 11. A significant reduction of TPH-g, benzene, and MTBE concentrations was only observed in wells MW-8 and IS-5. Slight MTBE and TPH-g concentration reduction was found in wells MW-3 and MW-4, respectively. Conversely, no significant concentration reduction or concentration increase was found in other wells. The above data suggests that:

- The reduction of groundwater impact was not shown during 31-day extraction; only the transient response was generated.

However, in order to demonstrate the effect of HVDPE, data from the Summer 2009 semi-annual sampling conducted on July 10, 2009 and the groundwater data collected near the end of the interim remedial action on January 7 – 8, 2010 are summarized in Table 12. The comparison shows that:

- A significant reduction of groundwater concentrations was observed, except in well MW-7D.

The above findings reveal that HVDPE provides positive influence on the reduction of local groundwater impact. However, long-term application of HVDPE is required to create a steady-state groundwater impact reduction.

Removal of Petroleum Hydrocarbons Mass

The petroleum hydrocarbons and MTBE were removed from the subsurface through vapor and dissolved phases. Although MTBE is highly soluble, a large percentage of MTBE could be stripped from the dissolved phase together with the dissolved hydrocarbons under a high vacuum and converted into vapor within the water-vapor separator (knock-out tank). As a result, the quantity of dissolved petroleum hydrocarbons and MTBE removed from the carbon vessel was relatively less compared with the vapor mass removed in oxidizer. Also, the amount of hydrocarbon/MTBE removed by the carbon vessel cannot be easily determined because their concentrations in the influent to the carbon vessels changed greatly during the HVDPE process. Although the amount of dissolved hydrocarbons and MTBE removed by the carbon vessels could not be estimated during the pilot test, it should be noted that a total of 22,510 gallons of groundwater was pumped and treated. In addition, approximately 5 gallons of brown, oily floating product was extracted from wells MW-8, IS-3, and D10. The floating product was pumped out from the knock-out tank and skimmed from the holding tank of the groundwater treatment unit.

After 14, 8, and 9 days of HVDPE, approximately 1,830, 842, and 870 pounds of hydrocarbons were removed from Target Areas A, B, and C, respectively. The associated mass removal rate was 5.45, 4.39, and 4.03 pounds per hour. These mass removal rates are greater than or close to the rates found from other petroleum hydrocarbon contaminated sites. The above data suggests that:

- Local groundwater impact remains at a similar level after interim remediation. However, based on the hydrocarbon mass removal rates and the amount of contaminant mass removed, the performance of the HVDPE system was outstanding.

Identification of Hot Spots

During the pilot test for Target Area A, the extracted vapor concentrations for DPE wells D6, D8, and D9 ranged between 14 and 198 ppmv, 21 and 192 ppmv, and 33 and

162 ppmv, respectively (see Appendix C). These concentrations are less than 200 ppmv, which is approaching a site closure level. The extracted concentrations for wells D5 and EW-1 were mostly high during the test, and remained greater than 1,000 ppmv at the end of the test. Similarly, during the pilot test for Target Area B, wells D3 and D4 frequently had higher vapor concentrations compared with wells D1 and D2. At the end of the test for Target Area B, the ending vapor concentrations for wells D1, D2, D3, D4, D5, and EW-1 were 548, 783, 2,040, 1,565, 1,074, and 1,016 ppmv (see Appendix C). For Target Area C, all slant wells D7, D10, D11, and D12 had elevated vapor concentrations of 2,060, 2,070, 1,621, and 6,450 ppmv, respectively, at the beginning of the test. Concentration level for D7 dropped off quickly in 3 days. Concentration levels for wells D10 and D11 reduced to relatively low levels of 421 ppmv and 341 ppmv after 6 and 9 days extraction, respectively. At the end of the Target Area C test, the ending vapor concentrations for wells D3, D4, D12, IS-3, and MW-8 were 741, 572, 799, 671, and 281 ppmv, respectively (See Appendix C).

The pilot test data indicates that:

- Elevated vapor concentrations sustained in DPE wells D3, D4, D5, D12, EW-1, and IS-3.
- A "hot spot" clearly exists south of the building near wells EW-1, D5, D12, and D4. Another "hot spot" exists north of the building near wells D3, IS-3, D1, and D2.
- Locations of these "hot spots" are consistent with the center of the TPH-g and MTBE plumes shown in Figure 3.

6. FINDINGS

Range of Vacuum Influence

- The range of influence within the Target A area is between 27 and 48 feet under total system vacuum of 15-inch Hg.
- No significant vacuums were measured in deep zone wells MW-4D and MW-7D; even though well MW-4D is only 4.5 and 6 feet away from the extraction wells D5 and EW-1, respectively.
- The lithology in Target Area B likely is very heterogeneous, including low permeability soil. Thus, the range of influence in Target Area B is less than 5 feet and as far as 27 feet. Consequently, floating product was found in wells MW-8 and IS-3.
- The range of influence with slant wells D7, D10, D11, and D12 extracted together may range from 10 to 38 feet.

Quantity of Removed Contaminants

- Elevated vapor concentrations were measured at wells D5 and EW-1 at the beginning of the Test Group A. Thus, a "hot spot" exists in the vicinity of these two wells, which is consistent with the 4Q08 groundwater data collected from monitoring well MW-4.
- Based on the Horiba Analyzer and Tedlar bag data, the calculated petroleum hydrocarbons removed during the 31-day interim remediation were respectively 3,542 and 3,660 pounds, equivalent to 565 and 584 gallons of gasoline.
- Based on the Horiba Analyzer data, 1,830, 842, and 870 pounds of hydrocarbons were removed from Target Areas A, B, and C, respectively. The associated mass removal rate was 5.45, 4.39, and 4.03 pounds per hour.
- In addition to extracting and treating 22,510 gallons of groundwater, approximately 5 gallons of floating product was extracted from wells MW-8, IS-3, and D10.

- The Horiba VOC Analyzer and the Tedlar bag provide data with similar quality. In addition, the Horiba Analyzer data has less variation and appears more consistent than the Tedlar bag data.

Diminishment of Extracted Vapor Concentrations

- Target Area A is highly impacted with the initial extracted vapor concentration greater than 3,000 ppmv. The vapor concentration remained at a level of 2,000 ppmv approaching the end of the extraction.

- Relatively high vapor concentrations of greater than 1,200 and 1,000 were maintained in Target Areas B and C. The ending concentrations of these two areas were greater than 1,300 and 600 ppmv, respectively.

Diminishment of Contaminant Concentrations in Groundwater

- Reduction of groundwater impact was not shown during 31-day extraction. Only a transient response was generated.

- Comparing the summer 2009 semi-annual groundwater sampling data and the groundwater data collected at the end of the interim remediation shows that a significant reduction of groundwater concentrations was observed in many monitoring wells, except for well MW-7D.

Identification of Hot Spots

- A "hot spot" clearly exists south of the building near wells EW-1, D5, D12, and D4. Another "hot spot" also exists north of the building near wells D3, IS-3, D1, and D2.

- The location of these "hot spots" is consistent with the center of the TPH-g and MTBE plumes.

7. CONCLUSIONS

1. The deep groundwater zone is isolated from the shallow zone based on the vacuum and groundwater concentration data, which is consistent with the local lithologic data.

2. Wells D7, D10, D11, and D12 can completely influence the area under the building. Although wells D10 and D11 may not be productive for mass removal, these two wells can be used to generate a cone of depression to collect floating product.

3. The plotted mass removal curves suggest that a significant amount of hydrocarbon still remains in the on-site subsurface. Additionally, both vapor and groundwater concentration data show that groundwater impact, especially under Target Areas A and B, was not greatly reduced.

4. Since significant vapor concentrations were measured at the end of the test for each target area, 8 to 14 days of extraction was not sufficient for each target area.

5. Although HVDPE provides a positive influence on the reduction of groundwater impact, the long-term use of HVDPE is required to generate a steady-state groundwater impact reduction.

6. Although the local groundwater impact remains at a similar level after an interim remediation, HVDPE was demonstrated to be an efficient remedial technology based on the hydrocarbon removal rates and the quantity of mass removed.

7. Elevated vapor concentrations were sustained in DPE wells D3, D4, D5, D12, EW-1, and IS-3. These wells should be the focus of extraction in the future remediation.

8. RECOMMENDATIONS

HVDPE was demonstrated to be an effective technology compatible with the site conditions. It extracted more than 3,600 pounds of petroleum hydrocarbons in 31 days through the pilot test and interim remediation activities. The ranges of influence of vacuum determined from the pilot test provide sufficient coverage for the groundwater plumes. However, the results of the pilot test and short-term interim remediation show that more contaminants likely remain in the subsurface; and 8 to 14 days of extraction was not sufficient.

Since the amount of contaminants remaining in the subsurface cannot be reliably determined and the mass removal rate varies with the contamination level, at least two additional 30-day extraction events are recommended. The first recommended cleanup event is in March 2010, near the end of the rainy season. The second cleanup event is in May 2010, before summer. These two cleanup events will remove more contaminants from the subsurface. The cleanup data will be used to estimate the length of time required to clean up the site before closure. Since the site has limited space and many people are walking around the site waiting for temporary employers during the day, the mobile HVDPE system is more preferable for this purpose. Progress reports will be prepared for each cleanup event. The results of these two additional extraction events will be used to decide whether a fix-based system should be installed.

REFERENCES

Environmental Risk Specialties (ERS), *Interim Remedial Action Work Plan*, May 2009a.

Environmental Risk Specialties (ERS), *Work Plan Addendum for DPE Interim Remedial Action*, August 2009b.

Environmental Risk Specialties (ERS), *Semi-Annual Groundwater Monitoring Report - Summer 2009*, July 2009c.

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CERTIFICATION

This report was prepared under the supervision of a State of California Professional Engineer at Innovative Environmental Remediation, Inc. (IERI). All statements, conclusions, and recommendations are based solely upon published results from previous consultants, field observations by IERI, and laboratory analysis performed by a California DHS-certified laboratory related to the work performed by IERI.

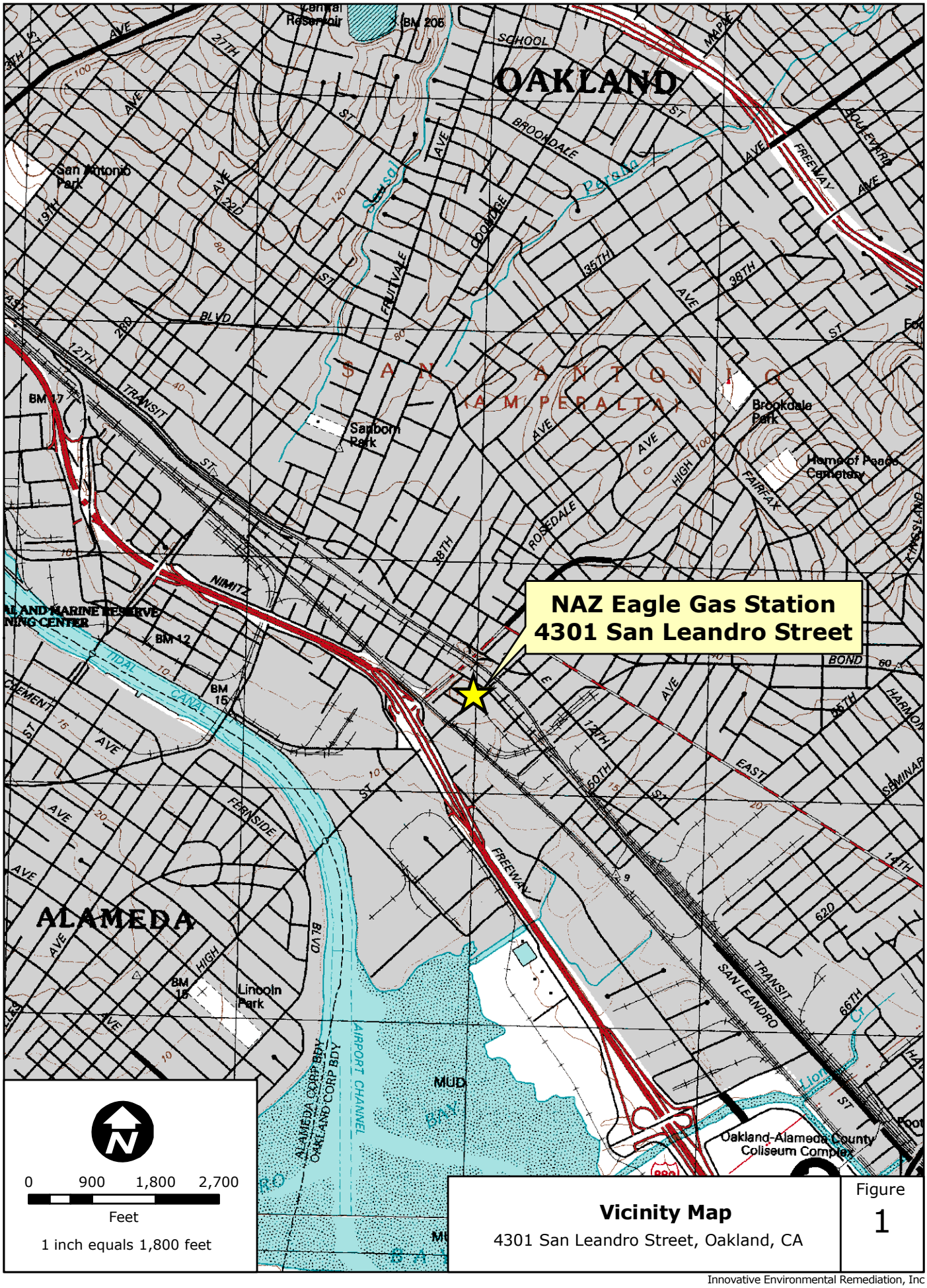
Information and interpretation presented herein are for the sole use of the client and regulating agency. The service performed by IERI has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the property. No other warranty, expressed or implied, is made.

Sincerely,

INNOVATIVE ENVIRONMENTAL REMEDIATION, INC.

Jim Ho, PE #C68639

FIGURES



Vicinity Map

4301 San Leandro Street, Oakland, CA

Figure 1

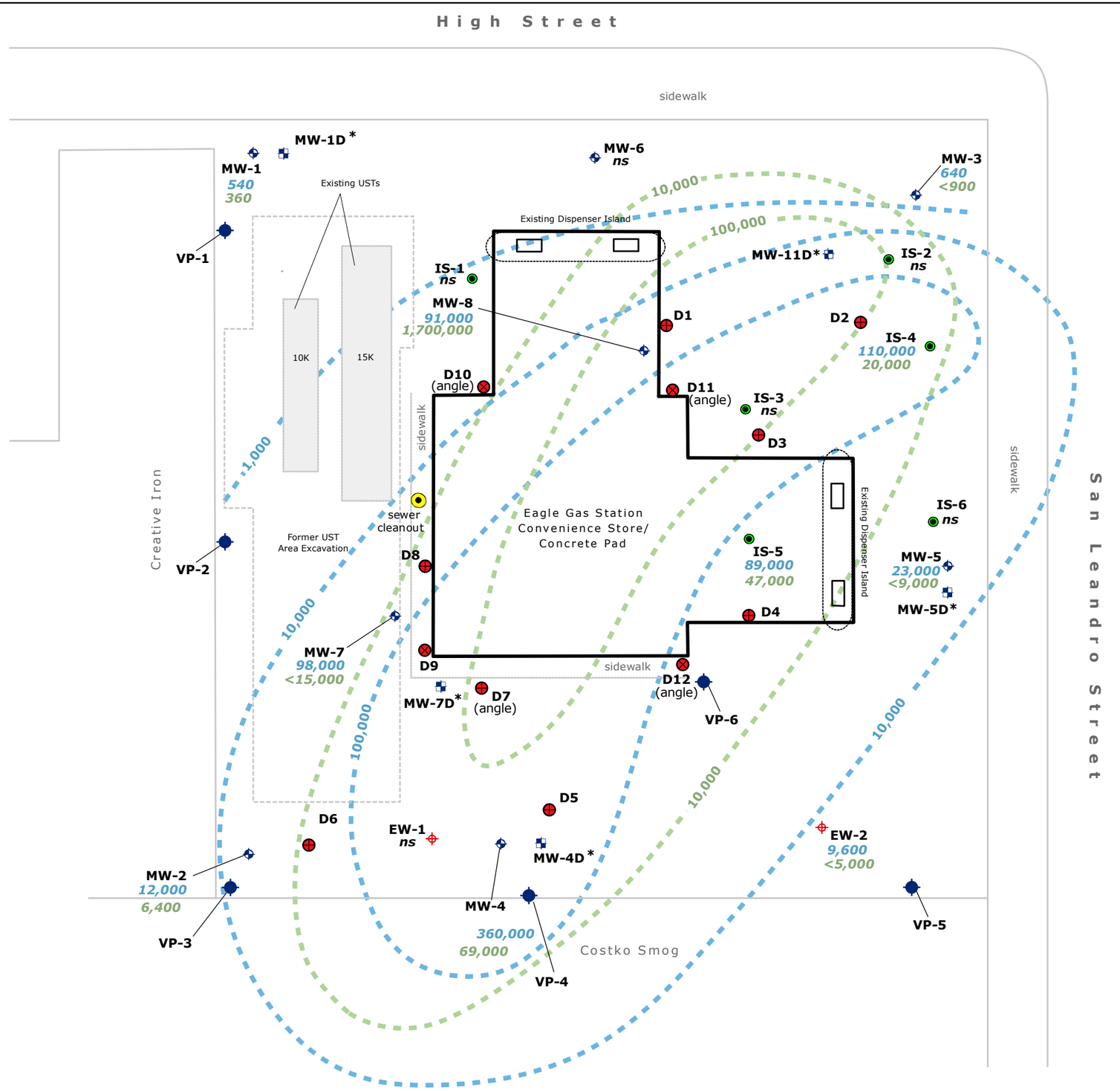
Innovative Environmental Remediation, Inc

Site Plan

Eagle Gas Station, 4301 San Leandro Street, Oakland, CA

Figure 2

Innovative Environmental Remediation, Inc



Legend

- HVDPE Well
- Extraction Well
- iSOC Well
- Monitor Well, Deep
- Monitor Well, Shallow
- Vapor Well
- Building Boundary
- *ns* not sampled
- * Deep Zone Well, result not shown
- *20,000* TPHg Concentration, Dec 2008 (ug/L)
- TPHg Concentration contour
- *23,000* MTBE Concentration, Dec 2008 (ug/L)
- MTBE Concentration contour

0 5 10 15 Feet

1 inch equals 15 feet

Location Map of Interim Remedial Action DPE Wells

Eagle Gas Station, 4301 San Leandro Street, Oakland, CA

Figure 3

Innovative Environmental Remediation, Inc

Figure 4. Cumulative Mass Removal (Target Area A)

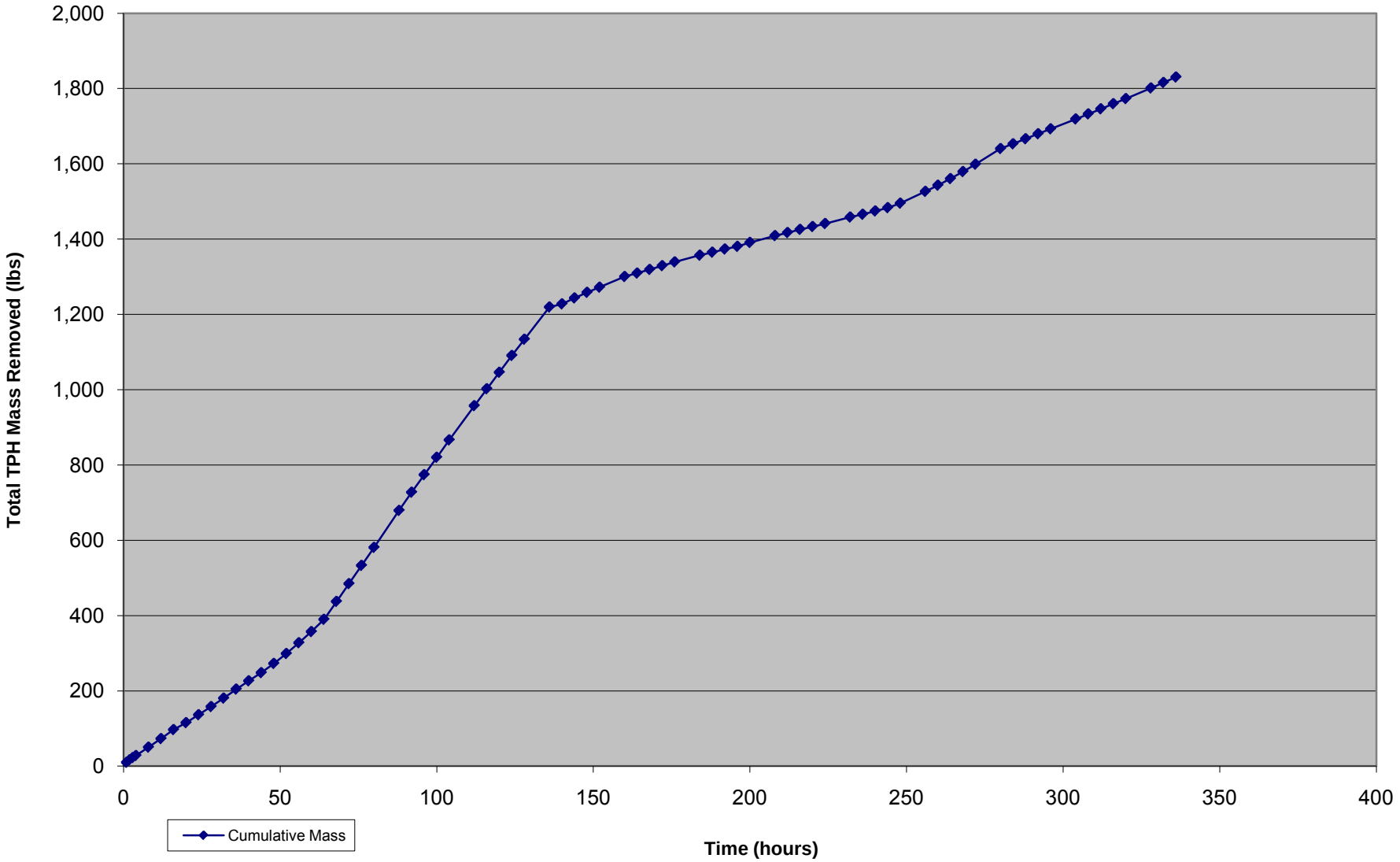


Figure 5. Cumulative Mass Removal (Target Area B)

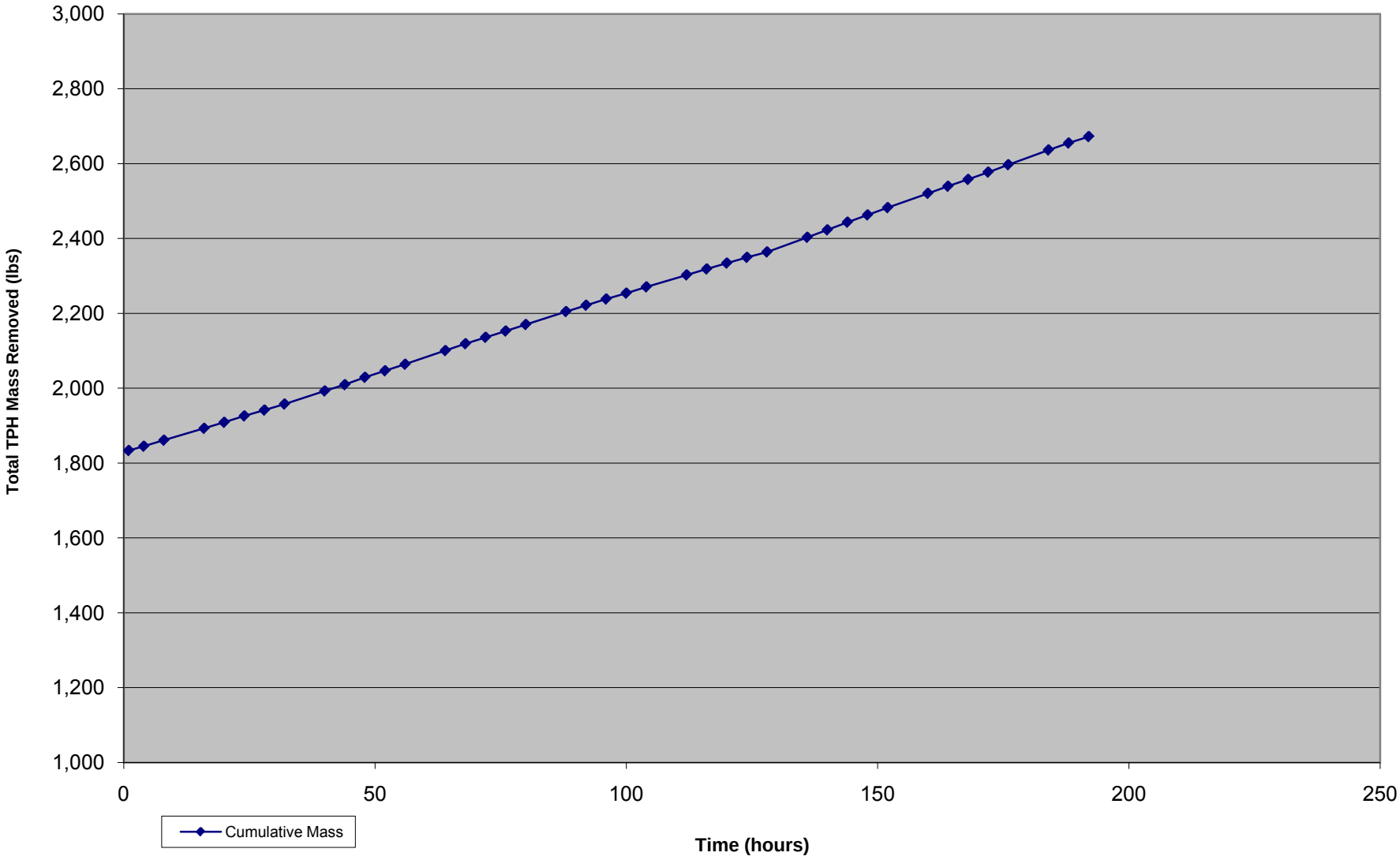


Figure 6. Cumulative Mass Removal (Target Area C)

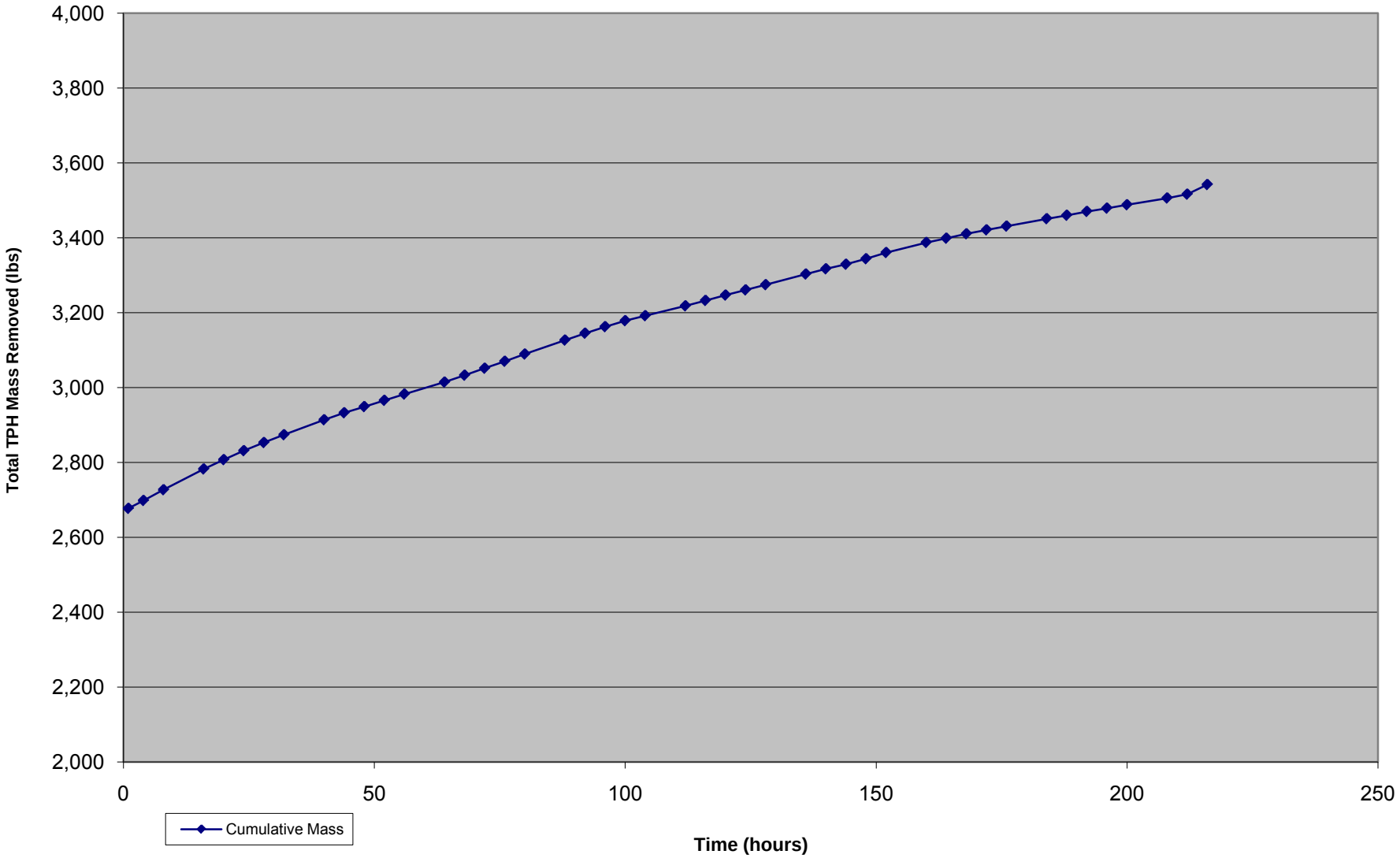


Figure 7. Change of Influent Vaport Concentration with Time (Target Area A)

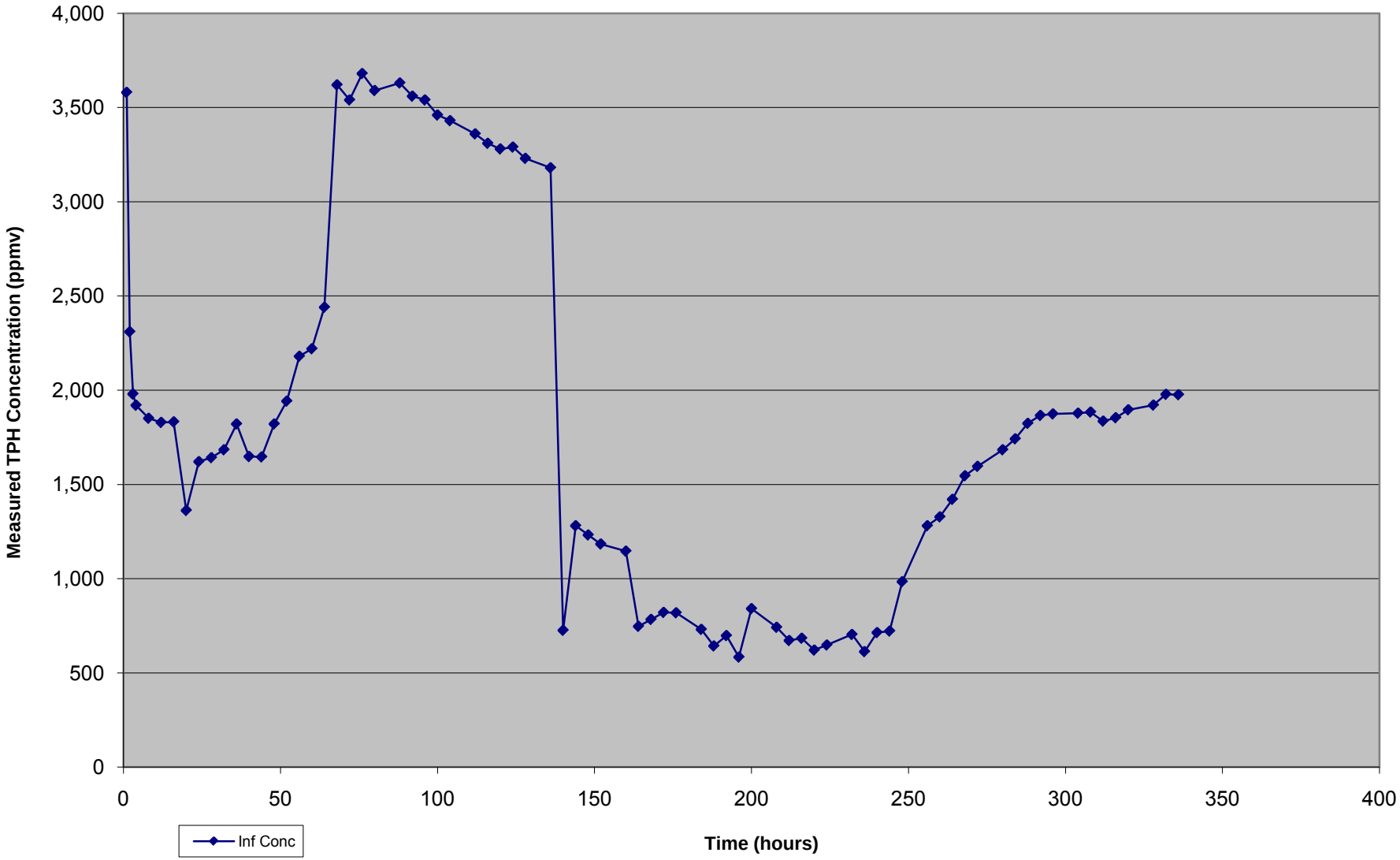


Figure 8. Change of Influent Vaport Concentration with Time (Target Area B)

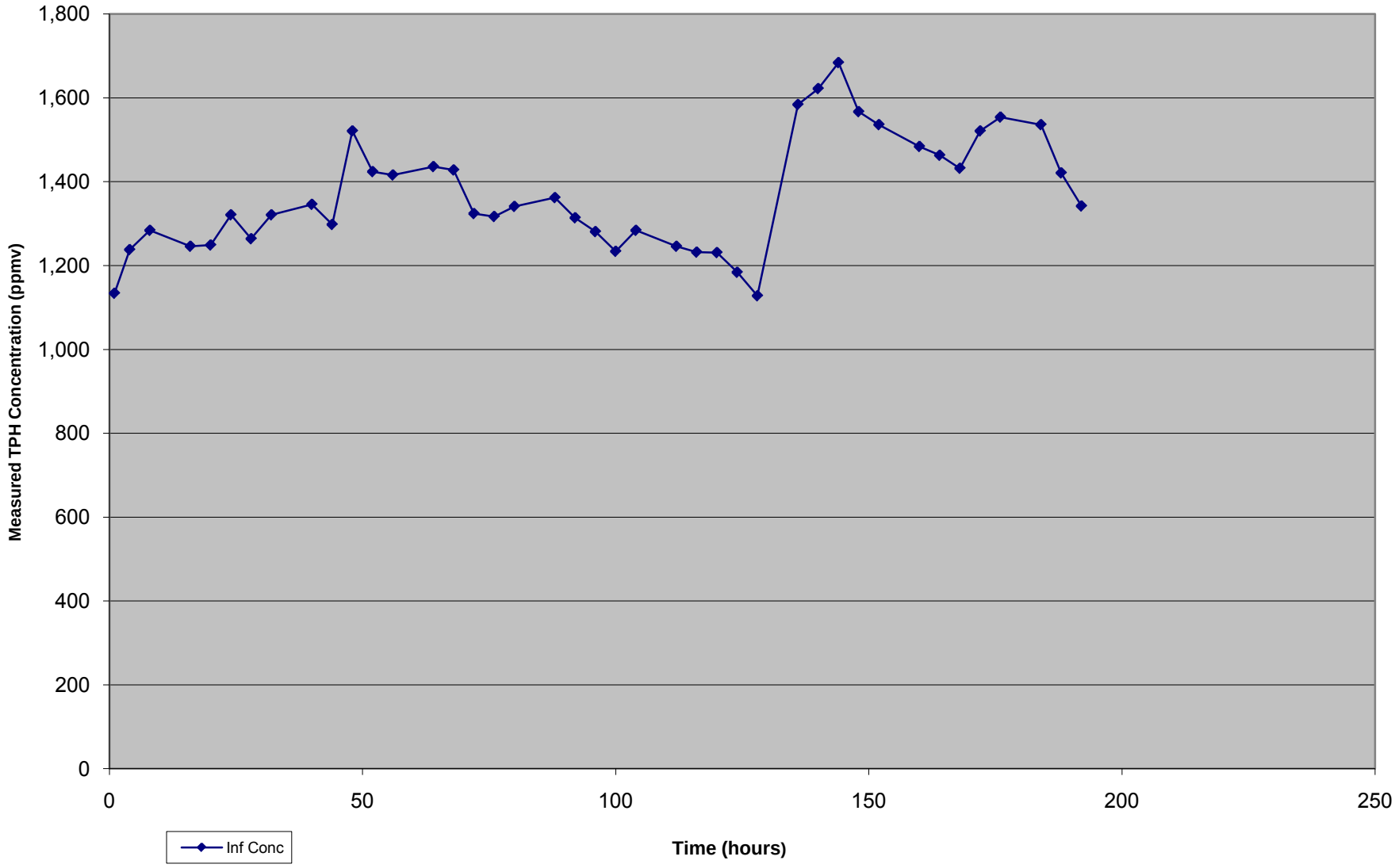


Figure 9. Change of Influent Vaport Concentration with Time (Target Area C)

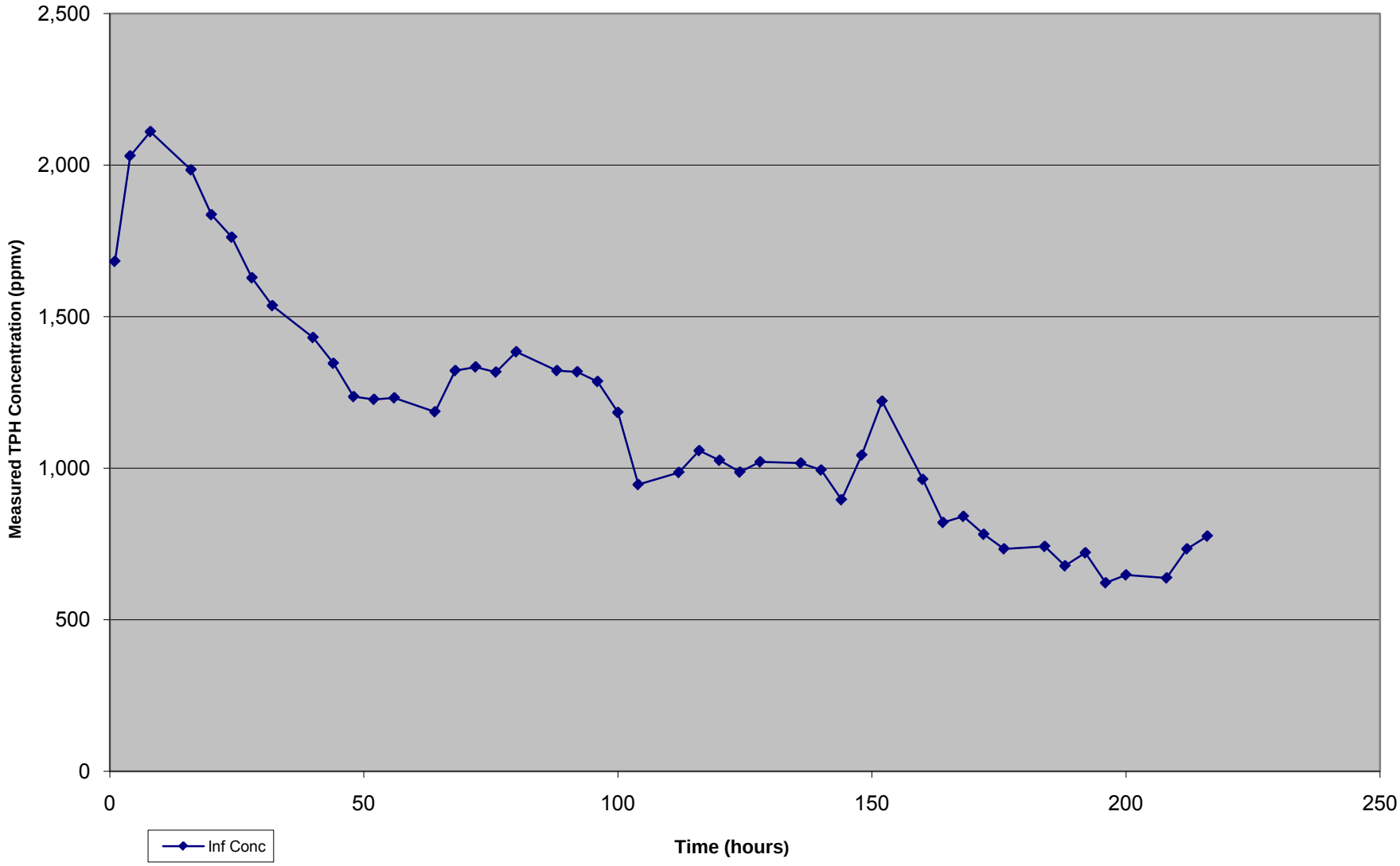
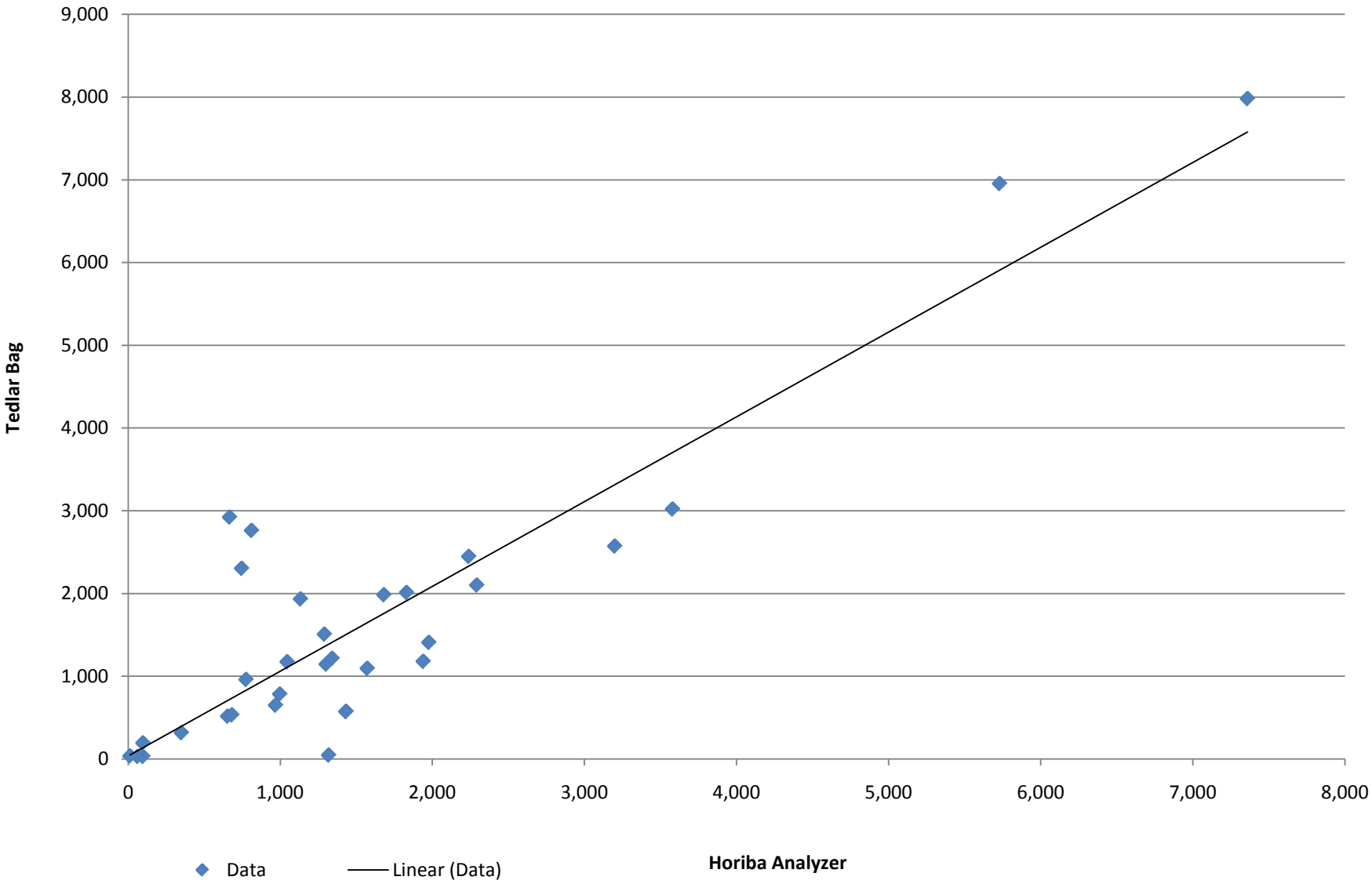


Figure 10. Scatter Plot for Telar Bag versus Horiba Analyzer Data



TABLES

Table 1. Operation of the DPE Wells for 2009 - 2010 Interim Remedial Action and Pilot Test

Target Areas/ Test Groups	Remedial Action Extraction Wells	Test Period	Extraction/ Test Duration (days)	Observation Wells	Sampling Wells and Sampling Frequency
A	D5, D6, D8, D9, and EW-1	December 10 through 24, 2009	14	VP-2, VP-5, MW-4, MW-4D, MW-7, MW-7D	• Vacuum and groundwater depth of observation wells measured every 4 hours • Vapors from D5, D6, and D8 sampled on 1st and 14th day • Wells MW-4 and MW-7 sampled on 1st and 14th day
B	D1, D2, D3, D4, D5, and EW-1	December 24, 2009 through January 1, 2010	8	MW-3, MW-5, MW-6, MW-8, IS-1, IS-4, and IS-6	• Vacuum and groundwater depth of observation wells measured every 4 hours • Vapors from D2 and D4 sampled on 14th and 22nd day • Wells MW-3, MW-5, and MW-8 sampled on 14th and 22nd day
C	D3, D4, D7, D10, D11, D12, IS-3, and MW-8	January 1 through 10, 2010	9	VP-2, MW-7, MW-8, IS-1, IS-3, IS-4, IS-5	• Vacuum and groundwater depth of observation wells measured every 4 hours • Vapors from D7, D10, and D11 sampled on 22rd and 31th day • Wells MW-8, IS-1, IS-4, and IS-5 sampled on 22rd and 31th day

Table 2. Measured Vacuum and Groundwater Depth for Test Group A

	Observation Wells									
	VP-2	VP-5	MW-4		MW-4D		MW-7		MW-7D	
Parameters/ Time	Vacuum (inch Hg)	Vacuum (inch Hg)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)
12/10/2009	0.10	0.09	3.15	10.50	0.09	16.96	0.14	23.57	0.00	16.95
12/11/2009	0.14	0.19	3.27	11.56	0.00	16.96	0.22	23.38	0.00	16.91
12/12/2009	0.04	0.34	3.45	11.44	0.00	16.88	0.33	23.15	0.03	16.87
12/13/2009	0.40	0.32	3.50	11.37	0.00	17.21	0.34	23.80	0.00	17.11
12/14/2009	0.19	0.31	3.48	11.28	0.00	17.25	0.34	24.73	0.00	17.09
12/15/2009	0.24	0.38	3.38	11.15	0.00	17.22	0.25	24.73	0.00	17.00
12/16/2009	0.12	0.50	3.38	11.10	0.00	17.24	0.15	23.51	0.00	17.01
12/17/2009	0.18	0.45	3.40	11.17	0.00	17.35	0.16	23.36	0.00	17.13
12/18/2009	0.14	0.32	3.44	11.20	0.00	17.27	0.17	23.75	0.00	16.94
12/19/2009	0.18	0.17	3.30	11.15	0.00	17.20	0.19	23.29	0.00	16.87
12/20/2009	0.09	0.24	3.32	11.18	0.00	16.86	0.16	21.63	0.00	16.44
12/21/2009	0.19	0.35	3.58	11.22	0.00	16.73	0.25	21.68	0.00	16.33
12/22/2009	0.05	0.02	3.50	11.67	0.00	16.52	0.13	21.89	0.00	16.82
12/23/2009	0.06	0.05	3.50	12.11	0.00	16.81	0.07	20.16	0.00	16.90
12/24/2009	0.06	0.09	3.57	12.00	0.00	16.92	0.11	20.20	0.00	16.85
Average	**0.15**	**0.25**	**3.41**		**0.01**		**0.20**		**0.00**	

Table 3. Measured Vacuum and Groundwater Depth for Test Group B

	Obserbation Wells													
	MW-3		MW-5		MW-6		MW-8		IS-1		IS-4		IS-6	
Parameters/ Time	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)
12/24/2009	0.00	12.12	0.00	7.90	0.00	11.63	0.00	9.74	0.00	8.05	no data	no data	0.70	7.18
12/25/2009	0.00	12.13	0.00	8.60	0.00	11.62	0.00	9.19	0.00	8.04	no data	no data	0.72	8.02
12/26/2009	0.07	12.16	0.00	13.03	0.00	11.64	0.00	9.33	0.00	8.11	no data	no data	0.73	11.83
12/27/2009	0.07	12.30	0.00	10.84	0.00	11.60	0.00	9.41	0.00	7.87	no data	no data	0.00	10.86
12/28/2009	0.22	12.22	0.00	11.23	0.00	12.52	0.00	9.39	0.00	7.85	0.95	7.68	0.00	8.98
12/29/2009	0.13	12.26	0.00	8.53	0.00	11.72	0.00	9.37	0.00	9.94	0.58	8.03	0.00	8.21
12/30/2009	0.05	12.36	0.00	9.40	0.00	11.74	0.00	9.34	0.00	8.00	0.29	10.90	0.00	8.42
12/31/2009	0.13	12.39	0.00	13.11	0.00	11.77	0.00	9.36	0.00	8.11	0.06	11.27	0.00	8.72
1/1/2010	0.05	12.51	0.00	11.70	0.00	11.81	0.00	9.50	0.00	8.07	0.07	10.39	0.00	8.73
Average	**0.08**		**0.00**		**0.00**		**0.00**		**0.00**		**0.39**		**0.24**	

Table 4. Measured Vacuum and Groundwater Depth for Test Group C

	Observation Wells												
	VP-2	MW-7		MW-8		IS-1		IS-3		IS-4		IS-5	
Parameters/ Time	Vacuum (inch Hg)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)	Vacuum (inch Hg)	GW Depth (ft btc)
1/1/2010	0.06	0.10	18.35	1.35	12.07	0.10	8.27	3.70	16.67	0.00	9.10	0.00	9.76
1/2/2010	0.10	0.11	17.92	1.76	12.65*	0.01	8.62	3.82	10.86**	0.00	8.88	0.00	9.84
1/3/2010	0.04	0.12	17.52	1.42	12.80*	0.00	8.85	3.86	10.97**	0.00	8.83	0.00	9.93
1/4/2010	0.06	0.10	17.54	1.30	11.31*	0.00	8.90	3.60	11.80**	0.00	9.15	0.21	9.95
1/5/2010	0.05	0.06	18.04	DPE	DPE	0.00	8.92	DPE	DPE	0.00	9.12	0.18	9.90
1/6/2010	0.05	0.06	18.02	DPE	DPE	0.00	8.86	DPE	DPE	0.00	8.92	0.06	9.77
1/7/2010	0.10	0.26	17.96	DPE	DPE	0.00	8.86	DPE	DPE	0.00	8.96	0.24	9.94
1/8/2010	0.05	0.08	17.99	DPE	DPE	0.00	8.91	DPE	DPE	0.00	9.09	1.60	10.00
1/9/2010	0.06	0.06	18.09	DPE	DPE	0.00	8.76	DPE	DPE	0.00	9.22	1.34	10.03
1/10/2010	0.06	0.11	18.12	DPE	DPE	0.00	8.77	DPE	DPE	0.00	9.08	1.43	9.93
Average	**0.06**	**0.11**		**1.46**		**0.01**		**3.75**		**0.00**		**0.51**	

* … 0 .1" - 0.5" floating product in MW-8

** … 0.01" - 0.5" floating product in IS-3

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

Date/Time	Time Since DPE Began (hours)	Stinger Depth (ft bgs)					System Data				Mass Removal (lbs)	
		D5	D6	D8	D9	EW-1	System Vacuum (in Hg)	Influent Flow (scfm)	Influent Conc. (ppmv)	Treated Effluent Conc. (ppmv)	Incremtal	Cumulative
12/10, 1600	0	**DPE System Started for Target A**									0.00	0.00
12/10, 1700	1	17	16	20	22	17	17	183	3,580		10.21	10.21
12/10, 1800	2	17	16	20	22	17	17	185	2,310		6.66	16.87
12/10, 1900	3	17	16	20	22	17	17	190	1,980		5.86	22.73
12/10, 2000	4	17	16	20	22	17	17	182	1,920		5.44	28.17
12/10, 2400	8	17	16	20	22	17	17	193	1,851		22.27	50.44
12/11, 0400	12	17	16	20	22	17	15	199	1,829		22.69	73.13
12/11, 0800	16	17	16	20	22	17	14	210	1,832		23.98	97.11
12/11, 1200	20	17	16	20	22	17	13	217	1,362		18.42	115.53
12/11, 1600	24	17	16	20	22	17	13	208	1,621		21.02	136.54
12/11, 2000	28	17	16	20	22	17	13	212	1,642		21.70	158.24
12/11, 2400	32	17	16	20	22	17	13	214	1,684		22.46	180.70
12/12, 0400	36	17	16	20	22	17	13	211	1,821		23.95	204.65
12/12, 0800	40	17	16	20	22	17	13	214	1,648		21.98	226.63
12/12, 1200	44	17	16	20	22	17	13	211	1,646		21.65	248.28
12/12, 1600	48	17	16	20	22	17	13	216	1,821		24.52	272.79
12/12, 2000	52	17	16	20	22	17	13	217	1,942		26.27	299.06
12/12, 2400	56	17	16	20	22	17	13	211	2,180		28.67	327.73
12/13, 0400	60	17	16	20	22	17	13	214	2,220		29.61	357.34
12/13, 0800	64	17	16	20	22	17	13	214	2,440		32.55	389.88
12/13, 1200	68	17	16	20	22	17	13	211	3,620		47.61	437.49
12/13, 1600	72	17	16	20	22	17	13	214	3,540		47.22	484.71
12/13, 2000	76	17	16	20	22	17	13	211	3,680		48.40	533.10
12/13, 2400	80	17	16	20	22	17	13	214	3,590		47.88	580.99
12/14, 0800	88	17	16	20	22	17	13	217	3,630		98.19	679.18
12/14, 1200	92	17	16	20	22	17	13	218	3,560		48.37	727.55
12/14, 1600	96	17	16	20	22	17	13	211	3,540		46.56	774.11
12/14, 2000	100	17	16	20	22	17	13	214	3,460		46.15	820.26
12/14, 2400	104	17	16	20	22	17	13	216	3,430		46.18	866.44
12/15, 0800	112	17	16	20	22	17	13	217	3,360		90.89	957.33

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

12/15, 1200	116	17	16	20	22	17	13	218	3,310		44.97	1002.30
12/15, 1600	120	17	16	20	22	17	13	214	3,280		43.75	1046.05
12/15, 2000	124	17	16	20	22	17	13	218	3,290		44.70	1090.75
12/15, 2400	128	17	16	20	22	17	13	214	3,230		43.08	1133.84
12/16, 0800	136	17	16	20	22	17	13	216	3,180		85.62	1219.46
12/16, 1200	140	20	16	20	22	20	18	184	726		8.33	1227.79
12/16, 1600	144	17	16	20	22	17	15	196	1,281		15.65	1243.43
12/16, 2000	148	20	16	20	22	20	15	194	1,232		14.90	1258.33
12/16, 2400	152	20	16	20	22	20	15	186	1,184		13.73	1272.06
12/17, 0800	160	20	16	20	22	20	15	198	1,146		28.29	1300.34
12/17, 1200	164	20	16	20	22	20	15	196	747		9.13	1309.47
12/17, 1600	168	20	16	20	22	20	15	198	784		9.68	1319.14
12/17, 2000	172	20	16	20	22	20	15	196	821		10.03	1329.17
12/17, 2400	176	20	16	20	22	20	15	196	819		10.01	1339.18
12/18, 0800	184	20	16	20	22	20	15	196	731		17.86	1357.04
12/18, 1200	188	17	16	20	22	17	15	198	643		7.94	1364.97
12/18, 1600	192	17	16	20	22	17	15	194	698		8.44	1373.41
12/18, 2000	196	17	16	20	22	17	15	194	584		7.06	1380.48
12/18, 2400	200	17	16	20	22	17	15	198	841		10.38	1390.85
12/19, 0800	208	17	16	20	22	17	15	196	742		18.13	1408.98
12/19, 1200	212	17	16	20	22	17	15	194	672		8.13	1417.11
12/19, 1600	216	17	16	20	22	17	15	198	684		8.44	1425.55
12/19, 2000	220	17	16	20	22	17	15	195	621		7.55	1433.10
12/19, 2400	224	17	16	20	22	17	15	198	648		8.00	1441.09
12/20, 0800	232	17	16	20	22	17	15	196	704		17.20	1458.30
12/20, 1200	236	17	16	20	22	17	15	193	613		7.37	1465.67
12/20, 1600	240	17	16	20	22	17	15	198	714		8.81	1474.48
12/20, 2000	244	17	16	20	22	17	15	196	722		8.82	1483.30
12/20, 2400	248	17	16	20	22	17	15	194	984		11.90	1495.20
12/21, 0800	256	17	16	20	22	17	15	196	1,281		31.30	1526.50
12/21, 1200	260	17	16	20	22	17	15	198	1,328		16.39	1542.89
12/21, 1600	264	17	16	20	22	17	15	198	1,421		17.54	1560.42
12/21, 2000	268	17	16	20	22	17	15	194	1,546		18.69	1579.12
12/21, 2400	272	17	16	20	22	17	15	196	1,596		19.50	1598.61
12/22, 0800	280	17	16	20	22	17	15	198	1,684		41.56	1640.18
12/22, 1200	284	17				17	15	117	1,742		12.70	1652.88

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

12/22, 1600	288	17				17	15	118	1,824		13.41	1666.30
12/22, 2000	292	17				17	15	114	1,866		13.26	1679.55
12/22, 2400	296	17				17	15	112	1,874		13.08	1692.64
12/23, 0800	304	17				17	15	112	1,878		26.22	1718.86
12/23, 1200	308	17				17	15	114	1,884		13.39	1732.24
12/23, 1600	312	17				17	15	118	1,836		13.50	1745.75
12/23, 2000	316	17				17	15	118	1,854		13.64	1759.38
12/23, 2400	320	17				17	15	114	1,896		13.47	1772.85
12/24, 0800	328	17				17	15	118	1,921		28.26	1801.11
12/24, 1200	332	17				17	15	118	1,978		14.55	1815.66
12/24, 1600	336	17	**Target A Completed**			17	15	118	1,976		14.53	**1830.19**
Date/Time	Time Since DPE Began (hours)	Stinger Depth (ft bgs)						System Data			Mass Removal (lbs)	
		D1	D2	D3	D4	D5	EW-1	System Vacuum (in Hg)	Influent Flow (scfm)	Influent Conc. (ppmv)	Incremtal	Cumulative
12/24, 1600	0	**DPE System Started for Target B**									0.00	1830.19
12/24, 1700	1	16	15	22	16	17	17	15	198	1,134	3.50	1833.69
12/24, 2000	4	16	15	22	16	17	17	15	197	1,238	11.40	1845.09
12/24, 2400	8	16	15	22	16	17	17	15	201	1,284	16.09	1861.18
12/25, 0800	16	16	15	22	16	17	17	15	204	1,246	31.69	1892.86
12/25, 1200	20	16	15	22	16	17	17	15	206	1,249	16.04	1908.90
12/25, 1600	24	16	15	22	16	17	17	15	208	1,321	17.13	1926.02
12/25, 2000	28	16	15	22	16	17	17	15	198	1,264	15.60	1941.62
12/25, 2400	32	16	15	22	16	17	17	15	196	1,321	16.14	1957.76
12/26, 0800	40	16	15	22	16	17	17	15	208	1,346	34.90	1992.66
12/26, 1200	44	16	15	22	16	17	17	15	208	1,298	16.83	2009.49
12/26, 1600	48	16	15	22	16	17	17	15	207	1,521	19.62	2029.11
12/26, 2000	52	16	15	22	16	17	17	15	198	1,424	17.57	2046.69
12/26, 2400	56	16	15	22	16	17	17	15	196	1,416	17.30	2063.98
12/27, 0800	64	16	15	22	16	17	17	15	204	1,436	36.52	2100.50
12/27, 1200	68	16	15	22	16	17	17	15	206	1,428	18.33	2118.84
12/27, 1600	72	16	15	22	16	17	17	15	208	1,324	17.16	2136.00
12/27, 2000	76	16	15	22	16	17	17	15	204	1,317	16.75	2152.75
12/27, 2400	80	16	15	22	16	17	17	15	208	1,341	17.39	2170.13
12/28, 0800	88	16	15	22	16	17	17	15	204	1,362	34.64	2204.77

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

12/28, 1200	92	16	15	22	16	17	17	15	206	1,314	16.87	2221.64
12/28, 1600	96	16	15	22	16	17	17	15	208	1,281	16.61	2238.25
12/28, 2000	100	16	15	22	16	17	17	15	204	1,234	15.69	2253.94
12/28, 2400	104	16	15	22	16	17	17	15	208	1,284	16.65	2270.58
12/29, 0800	112	16	15	22	16	17	17	15	206	1,246	32.00	2302.58
12/29, 1200	116	16	15	22	16	17	17	15	207	1,232	15.90	2318.47
12/29, 1600	120	16	15	22	16	17	17	15	204	1,231	15.65	2334.12
12/29, 2000	124	16	15	22	16	17	17	15	208	1,184	15.35	2349.47
12/29, 2400	128	16	15	22	16	17	17	15	206	1,128	14.48	2363.96
12/30, 0800	136	16	15	22	16	17	17	15	198	1,584	39.10	2403.05
12/30, 1200	140	16	15	22	16	17	17	15	196	1,622	19.81	2422.87
12/30, 1600	144	16	15	22	16	17	17	15	196	1,684	20.57	2443.44
12/30, 2000	148	16	15	22	16	17	17	15	198	1,567	19.34	2462.78
12/30, 2400	152	16	15	22	16	17	17	15	204	1,536	19.53	2482.31
12/31, 0800	160	16	15	22	16	17	17	15	206	1,484	38.11	2520.42
12/31, 1200	164	16	15	22	16	17	17	15	208	1,463	18.97	2539.38
12/31, 1600	168	16	15	22	16	17	17	15	204	1,432	18.21	2557.59
12/31, 2000	172	16	15	22	16	17	17	15	206	1,521	19.53	2577.12
12/31, 2400	176	16	15	22	16	17	17	15	204	1,554	19.76	2596.88
01/01, 0800	184	16	15	22	16	17	17	15	206	1,536	39.44	2636.32
01/01, 1200	188	16	15	22	16	17	17	15	208	1,421	18.42	2654.75
01/01, 1600	192	16	15	22	16	17	17	15	206	1,342	17.23	**2671.98**
	Target B Completed											

Date/Time	Time Since DPE Began (hours)	Stinger Depth (ft bgs)						System Data			Mass Removal (lbs)	
		D7/IS3	D10/D4	D11/MW8	D12	D3	D4/D11	System Vacuum (in Hg)	Influent Flow (scfm)	Influent Conc. (ppmv)	Incremtal	Cumulative
01/01, 1600	0	**DPE System Started for Target C**									0.00	2671.98
01/01, 1700	1	25	20	20	22	22	16	13	218	1,682	5.71	2677.69
01/01, 2000	4	25	20	20	22	22	16	13	222	2,030	21.07	2698.76
01/01, 2400	8	25	20	20	22	22	16	13	218	2,110	28.67	2727.43
01/02, 0800	16	25	20	20	22	22	16	13	224	1,984	55.40	2782.82
01/02, 1200	20	25	20	20	22	22	16	13	218	1,836	24.95	2807.77
01/02, 1600	24	25	20	20	22	22	16	13	218	1,762	23.94	2831.71

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

01/02, 2000	28	25	20	20	22	22	16	13	214	1,628	21.71	2853.43
01/02, 2400	32	25	20	20	22	22	16	13	218	1,536	20.87	2874.30
01/03, 0800	40	25	20	20	22	22	16	13	224	1,431	39.96	2914.26
01/03, 1200	44	25	20	20	22	22	16	13	222	1,346	18.62	2932.88
01/03, 1600	48	25	20	20	22	22	16	13	214	1,236	16.49	2949.37
01/03, 2000	52	25	20	20	22	22	16	13	218	1,227	16.67	2966.04
01/03, 2400	56	25	20	20	22	22	16	13	218	1,232	16.74	2982.78
01/04, 0800	64	25	20	20	22	22	16	13	216	1,186	31.93	3014.71
01/04, 1200	68	13/IS3	20	15/MW8	22	22	16	13	224	1,322	18.46	3033.17
01/04, 1600	72	13	20	15	22	22	16	13	224	1,334	18.62	3051.79
01/04, 2000	76	13	20	15	22	22	16	13	226	1,317	18.55	3070.34
01/04, 2400	80	13	20	15	22	22	16	13	224	1,384	19.32	3089.67
01/05, 0800	88	13	20	15	22	22	16	13	226	1,322	37.24	3126.91
01/05, 1200	92	13	20	15	22	22	16	13	224	1,318	18.40	3145.31
01/05, 1600	96	13	20	15	22	22	16	13	218	1,286	17.47	3162.79
01/05, 2000	100	13	20	15	22	22	16	13	216	1,184	15.94	3178.73
01/05, 2400	104	13	20	15	22	22	25/D11	13	226	946	13.33	3192.05
01/06, 0800	112	13	20	15	22	22	25	13	214	986	26.30	3218.35
01/06, 1200	116	13	20	15	22	22	25	13	218	1,058	14.38	3232.73
01/06, 1600	120	13	20	15	22	22	25	13	224	1,026	14.32	3247.05
01/06, 2000	124	13	20	15	22	22	25	13	226	987	13.90	3260.96
01/06, 2400	128	13	20	15	22	22	25	13	218	1,021	13.87	3274.83
01/07, 0800	136	13	20	15	22	22	25	13	224	1,017	28.40	3303.23
01/07, 1200	140	13	16/D4	15	22	22	25	13	226	994	14.00	3317.23
01/07, 1600	144	13	16	15	22	22	25	13	218	896	12.17	3329.40
01/07, 2000	148	13	16	15	22	22	25	13	226	1,043	14.69	3344.10
01/07, 2400	152	13	16	15	22	22	25	13	218	1,221	16.59	3360.69
01/08, 0800	160	13	16	15	22	22	25	13	224	963	26.89	3387.58
01/08, 1200	164	13	16	15	22	22	25	13	222	821	11.36	3398.94
01/08, 1600	168	13	16	15	22	22	25	13	224	841	11.74	3410.68
01/08, 2000	172	13	16	15	22	22	25	13	216	782	10.53	3421.21
01/08, 2400	176	13	16	15	22	22	25	13	218	734	9.97	3431.18
01/09, 0800	184	13	16	15	22	22	25	13	214	742	19.79	3450.97
01/09, 1200	188	13	16	15	22	22	25	13	218	678	9.21	3460.19
01/09, 1600	192	13	16	15	22	22	25	13	226	721	10.16	3470.34
01/09, 2000	196	13	16	15	22	22	25	13	228	622	8.84	3479.18

Table 5. High Vacuum Dual Phase Extraction Field Data
Eagle Gas Station
4301 San Leandro Street, Oakland, CA

01/09, 2400	200	13	16	15	22	22	25	13	224	648	9.05	3488.23
01/10, 0800	208	13	16	15	22	22	25	13	226	638	17.97	3506.20
01/10, 1200	212	13	16	15	22	22	25	13	224	734	10.25	3516.45
01/10, 1600	216	13	16	15	22	22	25	13	242	776	81.93	**3542.12**
	Target C Completed											

APPENDIX A

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-93

July 9, 2009

Ms. Farah Naz
c/o Mr. Muhammad Jamil
40092 Davis Street
Fremont, CA 94538

Subject: Fuel Leak Case No. RO0000096 and Geotracker Global ID T0600143649, Eagle Gas, 4301 San Leandro Street, Oakland, CA 94601

Dear Ms. Naz:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the work plan entitled, "*Interim Remedial Action Work Plan*," dated May 11, 2009 (Work Plan). The Work Plan proposes expanding the scope of a proposed dual-phase extraction (DPE) interim remedial action. The proposed changes to the scope of work include additional extraction wells and expanding the duration of the interim remedial action from 5 to 30 days.

The proposed installation of additional extraction wells is acceptable and may be implemented as proposed. However, the Work Plan includes minimal descriptions of the field operations and monitoring procedures during the DPE interim remedial action. Therefore, we request that you submit a Work Plan Addendum that expands the description of the proposed scope of work for the 30-day interim remedial action/pilot test. The Work Plan Addendum should include an expanded discussion of the field operations and monitoring during the DPE event that includes but is not limited to the following:

- Further discussion of permitting and treatment for extracted vapor and water.
- Whether the stinger method will be used to apply vacuum and the expected vacuum ranges.
- Whether step tests will be performed including the number and duration of the step tests.
- Number of wells to be treated at one time and the criteria for continuing or discontinuing treatment in individual wells.
- Further description of the data to be collected during the DPE event including vacuum, vapor flow rates, water levels, groundwater flow rates, and vapor concentrations.
- Description of the method for sealing wells during DPE event.
- Discussion of the frequency of soil vapor sample collection.
- Further discussion of groundwater sampling.

We request that you submit a Work Plan Addendum to address the items above **no later than September 4, 2009.**

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **September 4, 2009** – Work Plan Addendum for DPE Interim Remedial Action
- **November 17, 2009** – Third Quarter 2009 Semi-annual Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For

your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Hazardous Materials Unit, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612

Jim Ho, Environmental Risk Specialties, 1600 Riviera Avenue, Suite 310, Walnut Creek, CA 94596

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

APPENDIX B

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Acting Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 2, 2009

Ms. Farah Naz
c/o Mr. Muhammad Jamil
40092 Davis Street
Fremont, CA 94538

Subject: Fuel Leak Case No. RO0000096 and Geotracker Global ID T0600143649, Eagle Gas, 4301 San Leandro Street, Oakland, CA 94601 – Work Plan Approval

Dear Ms. Naz:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the work plan entitled, "*Work Plan Addendum for DPE Interim Remedial Action*," dated August 11, 2009 (Work Plan Addendum). The Work Plan Addendum was prepared to address ACEH technical comments in our July 9, 2009 correspondence on the work plan entitled, "*Interim Remedial Action Work Plan*," dated May 11, 2009.

The Work Plan Addendum adequately addresses our July 9, 2009 technical comments. We request that you perform the proposed work and send us the reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **February 17, 2010** – DPE Pilot Test Report
- **March 16, 2010** – First Quarter 2010 Semi-annual Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks

(USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Hazardous Materials Unit, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612

Jim Ho, Environmental Risk Specialties, 1600 Riviera Avenue, Suite 310, Walnut Creek, CA 94596

Donna Drogos, ACEH
Jerry Wickham, ACEH
Geotracker, File

APPENDIX C

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/10/2009 Page 1A of 13

Client: IERI - JIM HO Operator (s): Bernardo / Faustino

					EXTRACTION WELLS									WELLS									
	Well I.D.				D5			D6			D8			D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				22.40			20.50			22.40			22.50		25.05							
	Initial Depth To Water DTW (ft)				9.50			8.30			8.05			13.30		9.05							
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O PPMV	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-10					ON		17'	ON		16'	PN		20'	ON	22'	ON	17'						
1600					3190			11			158			33		8210							
1700	17	183	1457	3580																			
1800	17	185	1439	2310																			
1900	17	190	1456	1980																			
2000	17	182	1459	1920	3210			14			38			44		6510						7910	590
0000	16	193	1421	1851																			
[illegible]																							
12-11																							
0400	15	199	1401	1829																			
0800	14	210	1407	1832	2820			94			115			34		8910						9230	1850
1200	13	217	1407	1362	2520			44			68			74		6280							
1600	13	208	1401	1621																			
2000	13	212	1402	1642	2510			84			114			86		6400						9920	2540
0000	13	214	1401	1684																			

Comments: 12-8-09 TOOK EFFL. WATER @ 1405. 12-9-09, GROWND WATER MW-4 @ 1005. MW-7 @ 101
12-10-09 TOOK D5 @ 1615 (3190 PPMV). D6 @ 1630 (11 PPMV). D8 @ 1645 (158 PPMV).
(33 PPMV) EW-1 @ 1700 (8210 PPMV). TOTAL INLET @ 1710 (3580 PPMV). STACK READING @ 1715.

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/10/2009 Page 1-B of 13

Client: IERI - JIM HO Operator (s): Bernardo / Faustino

					WELLS									OBSERVATION WELLS									
	Well I.D.				VP-4			VP-5			VP-2			MW-4		MW-4D		MW-7		MW-7D		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)													24-40		42-20		25-90		43-00			
	Initial Depth To Water DTW (ft)													9-30		17-21		24-80		16-95			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
12/10																							
2000								0.02			0.10			3.10	10.15	0.12	16.95	0.12	23.57	0.00	16.95		
2400								0.15			0.10			3.20	10.84	0.05	16.96	0.16	23.57	0.00	16.95		
12/11																							
0400								0.20			0.10			3.20	11.07	0.00	16.97	0.16	23.57	0.00	16.95		
0800								0.30			0.10			3.30	11.71	0.00	16.98	0.16	23.57	0.00	16.95		
1200								0.06			0.14			3.20	11.68	0.00	16.97	0.28	23.33	0.00	16.91		
1600								0.30			0.18			3.20	11.61	0.00	16.93	0.24	23.27	0.00	16.84		
2000								0.30			0.18			3.40	11.62	0.00	16.94	0.26	23.28	0.00	16.89		
0000								0.00			0.12			3.30	11.64	0.00	16.96	0.20	23.27	0.00	16.92		
12-12																							
0400								0.40			0.08			3.40	11.68	0.00	16.98	0.28	23.25	0.00	16.86		
0800								0.04			0.06			3.40	11.67	0.00	16.81	0.42	23.13	0.00	16.81		
1200								0.40			0.04			3.30	11.46	0.00	16.73	0.20	23.09	0.00	16.61		
1600								0.40			0.02			3.40	11.26	0.00	16.98	0.32	23.11	0.00	16.98		
2000								0.38			0.04			3.50	11.26	0.00	16.97	0.42	23.14	0.12	16.96		
0000								0.42			0.02			3.70	11.32	0.00	16.99	0.32	23.18	0.04	16.97		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/12/2009 Page 2-A of 13

Client: IERI - JIM HO Operator (s): Bermudo / Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D5			D6			D8			D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				22-40			20-50			22.40			22-50		25-05							
	Initial Depth To Water DTW (ft)				9.50			8-30			8-05			13-30		9.05							
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)		
12-12	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)									units	gals
																						7380	
0400	13	211	1401	1821	ON		17'	ON		16'	ON		20'	ON	22'	ON	17'						
0800	13	214	1402	1648	2670			96			102			64		6540						10530	3150
1200	13	211	1402	1646																			
1600	13	216	1402	1821																			
2000	13	217	1401	1942	3070			64			98			48		6710						10990	3600
0000	13	211	1401	2180																			
12-13																							
0400	13	214	1400	2220																			
0800	13	214	1402	2440	3180			104			96			102		6680						11610	4230
1200	13	211	1401	3620																			
1600	13	214	1406	3540																			
2000	13	211	1401	3680	3120			108			76			109		6510						12120	4740
0000	13	214	1400	3590																			
12-14																							
0800	13	217	1401	3630	3210			112			104			68		6420						12780	5400
1200	13	218	1400	3560																			
1600	13	211	1402	3540																			
2000	13	214	1401	3460	3230			122			192			55		5380						13110	5730
0000	13	216	1401	3430																			

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/13/2009 Page 2-B of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.							VP-5			VP-2			MW-4		MW-4D		MW-7		MW-7D		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)													24.40		42.20		25.90		43.00			
	Initial Depth To Water DTW (ft)													9.30		17.21		24.80		16.95			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW VAC (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
12-13																							
0400								0.30			0.02			3.50	11.34	0.00	17.67	0.42	23.61	0.00	17.11		
0800								0.32			0.06			3.40	11.38	0.00	17.11	0.32	23.54	0.02	17.14		
1200								0.34			0.02			3.70	11.36	0.00	17.14	0.36	23.72	0.00	17.12		
1600								0.32			0.02			3.80	11.32	0.00	17.28	0.32	23.84	0.00	17.11		
2000								0.34			0.06			3.40	11.41	0.00	17.32	0.28	23.96	0.00	17.14		
0000								0.28			0.04			3.20	11.41	0.00	17.34	0.32	24.11	0.00	17.04		
12-14																							
0800								0.14			0.02			3.40	11.32	0.00	17.18	0.38	24.64	0.00	17.07		
1200								0.40			0.22			3.50	11.36	0.00	17.24	0.30	24.72	0.00	17.05		
1600								0.40			0.22			3.60	11.22	0.00	17.28	0.30	24.76	0.00	17.11		
2000								0.30			0.24			3.40	11.24	0.00	17.26	0.40	24.78	0.00	17.14		
0000								0.30			0.24			3.50	11.26	0.00	17.27	0.32	24.76	0.00	17.09		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/15/2009 Page 3A of 13

Client: IERI - JIM HO Operator (s): Faustino / DTrell

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D5			D6			D8			D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				22-40			20.50			22.40			22:50		25.05							
	Initial Depth To Water DTW (ft)				9.50			8.30			8.05			13.30		9.05							
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-15					ON		17'	ON		16'	ON		20'	ON	22'	ON	17'						
0800	13	217	1400	3360	2840			193			132			43		3980						13590	6210
1200	13	218	1400	3310																			
1600	13	214	1400	3280																			
2000	13	218	1400	3290	2410			184			126			52		3710						14220	6840
0000	13	214	1462	3230																			
12-16																							
0800	13	216	1400	3180	2360			198			104			63		3480						14350	6970
1200	18	184	1407	726	954		20'	124			58			74		2040	20'						
1600	15	196	1407	1281			17'										17'						
2000	15	194	1407	1232	967		20'	122			62			84		1746	20'					14830	7450
0000	15	186	1407	1184																			
12-17																							
0800	15	198	1406	1146	962			116			38			162		1821						15270	7890
1200	15	196	1407	747																			
1600	15	198	1403	784																			
2000	15	196	1411	821	922			84			46			144		1736						15610	8230
0000	15	196	1401	819																			

Comments: 12-16-09 STINGER drop To 20 Ft D5, EW-1 @ 1200 Jim. Ho.
12-16-09 Stinger riseUP to 17 Ft @ 1600 Jim Ho. 12-17-09 TOTAL INLET TOOK @ 1200 (747 PPM)
12-16-09 Stinger drop to 20 Ft @ 1700

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/15/2009 Page 38 of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				VP-S			VP-2			MW-4			MW-4D		MW-7		MW7D					
	Screen Interval: From-To (ft)										24.40			42.20		25.90		43.00					
	Initial Depth To Water DTW (ft)										9.30			17.21		24.80		16.95					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
12-15																							
0800					0.30			0.26			3.20	11.17		0.00	17.26	0.24	24.72	0.00	17.06				
1200					0.42			0.22			3.40	11.08		0.00	17.23	0.22	24.74	0.00	16.98				
1600					0.42			0.24			3.40	11.17		0.00	17.22	0.26	24.76	0.00	16.99				
2000					0.36			0.26			3.50	11.14		0.00	17.19	0.24	24.69	0.00	16.98				
0000					0.42			0.22			3.40	11.18		0.00	17.21	0.28	24.72	0.00	16.97				
12-16																							
0800					0.36			0.28			3.50	11.14		0.00	17.32	0.32	24.63	0.00	16.84				
1200					0.52			0.06			3.40	11.01		0.00	17.11	0.08	23.25	0.06	17.04				
1600					0.54			0.08			3.30	11.14		0.00	17.28	0.08	23.17	0.00	17.08				
2000					0.52			0.06			3.40	11.12		0.00	17.21	0.14	23.24	0.00	17.11				
0000					0.56			0.12			3.30	11.11		0.00	17.22	0.12	23.21	0.00	17.02				
12-17																							
0800					0.58			0.14			3.40	11.17		0.00	17.26	0.11	23.28	0.00	17.04				
1200					0.56			0.28			3.50	11.22		0.00	17.32	0.14	23.24	0.00	17.06				
1600					0.32			0.14			3.40	11.21		0.00	17.46	0.18	23.32	0.00	17.14				
2000					0.32			0.16			3.50	11.07		0.00	17.38	0.22	23.46	0.00	17.18				
0000					0.46			0.18			3.20	11.18		0.00	17.34	0.14	23.52	0.00	17.21				

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: **4301 SAN LEANDRO STREET** City: **OAKLAND** Site #: **EAGLE GAS** Date: 12/18/2009 Page 4A of 13

Client: IERI - JIM HO Operator (s): Faustino / Durrell

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D5			D6			D8			D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				22.40			20-50			22.40			22.50		75.05							
	Initial Depth To Water DTW (ft)				9.50			8.30			8.05			13.30		9.05							
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-18					ON		20'	ON		16'	ON		20'	ON	22'	ON	20'						
0800	15	196	1405	731	698			152			128			123		1584						15950	8570
1200	15	198	1405	643			17'										17'						
1600	15	194	1407	698																			
2000	15	194	1400	584	875			54			68			34		1711				/		16250	8870
0000	15	198	1400	841																			
12-19																							
0800	15	196	1400	742	824			37			34			42		1603						16410	9030
1200	15	194	1406	672																			
1600	15	198	1401	684																			
2000	15	195	1405	621	640			46			60			52		1340						16720	9340
0000	15	198	1400	648																			
12-20																							
0800	15	196	1406	704	927			78			21			34		1412						17006	9620
1200	15	193	1447	613																			
1600	15	198	1402	714																			
2000	15	196	1400	722	1061			72			29			46		1481						17226	9840
0000	15	194	1407	984																			

Comments: 12-18-09 Stinger riseUP From D5, EW-1 to 17Ft @ 1100 A.M. by Jim-HO

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/18/2009 Page 43 of 13

Client: IERI - JIM HO Operator (s): Faustino / DTrejl

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				VP-5			VP-2			MW-4			MW-4D		MW-7		MW-7D					
	Screen Interval: From-To (ft)										24.40			47.20		25.90		43.00					
	Initial Depth To Water DTW (ft)										9.30			17.21		24.80		16.95					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
12-18																							
0800					0.42			0.14			3.60	11.14		0.00	17.46	0.12	23.62	0.00	17.32				
1200					0.30			0.18			3.50	11.18		0.00	17.28	0.20	23.86	0.00	16.96				
1600					0.32			0.12			3.40	11.21		0.00	17.24	0.18	23.81	0.00	16.84				
2000					0.28			0.14			3.40	11.22		0.00	17.21	0.22	23.74	0.00	16.76				
0000					0.28			0.12			3.30	11.24		0.00	17.18	0.14	23.68	0.00	16.81				
12-19																							
0800					0.14			0.18			3.40	11.12		0.00	17.27	0.18	23.36	0.00	16.85				
1200					0.12			0.22			3.20	11.23		0.00	17.14	0.18	23.28	0.00	16.92				
1600					0.14			0.14			3.30	11.12		0.00	17.18	0.22	23.42	0.00	16.91				
2000					0.25			0.20			3.20	11.15		0.00	17.20	0.20	23.36	0.00	16.84				
0000					0.22			0.18			3.40	11.14		0.00	17.19	0.18	23.11	0.00	16.81				
								0.12															
12-20																							
0800					0.24			0.12			3.40	11.18		0.00	17.14	0.08	23.07	0.00	16.75				
1200					0.15			0.06			3.40	11.21		0.00	16.84	0.10	21.25	0.00	16.71				
1600					0.30			0.06			3.20	11.17		0.00	16.80	0.18	21.24	0.00	16.25				
2000					0.28			0.07			3.02	11.14		0.00	16.74	0.21	21.22	0.00	16.26				
0000					0.24			0.16			3.40	11.18		0.00	16.76	0.24	21.28	0.00	16.24				

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET | City: OAKLAND | Site #: EAGLE GAS | Date: 12/21/2009 | Page 5A of 13

Client: IERI - JIM HO | Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D5			D6			D8			D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				22-40			20.50			22-40			22-50		25.05							
	Initial Depth To Water DTW (ft)				9-50			8.30			8.05			13-30		9.05							
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-21					ON		17'	ON		16'	ON		20'	ON	22'	ON	17'						
0800	15	196	1400	1281	1221			110			90			79		1408						17420	10040
1200	15	198	1402	1328																			
1600	15	198	1408	1421																			
2000	15	194	1407	1546	1211			114			96			84		1284						17580	10200
0000	15	196	1402	1596																			
12-22																							
0800	15	198	1400	1684	1074			98			63			54		1232						17660	10280
1200	15	117	1408	1742				OFF	14.41		OFF	20.35		OFF	DRY								
1600	15	118	1409	1824																			
2000	15	114	1407	1866	1218											1321						17710	10330
0000	15	112	1406	1874																			
12-23																							
0800	15	112	1408	1878	1231											1314						17800	10420
1200	15	114	1407	1884																			
1600	15	118	1406	1836																			
2000	15	118	1406	1854	1342											1462						17900	10520
0000	15	114	1407	1896																			

Comments: 12-22-09 CLOSED D6, D8, D9, @ 1100 by Him-Ho

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/21/2009 Page 5B of F3

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				VP-S			VP-2			MW-4			MW-4D		MW-7		MW-7D				Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)										24.40			42.20		25.90		43.00					
	Initial Depth To Water DTW (ft)										9.30			17.21		24.80		16.95					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
12-21																							
0800					0.26			0.22			3.60	11.21		0.00	16.84	0.14	21.31	0.00	16.27				
1200					0.28			0.18			3.70	11.18		0.00	16.92	0.18	21.34	0.00	16.28				
1600					0.40			0.18			3.40	11.21		0.00	16.60	0.22	21.90	0.00	16.24				
2000					0.40			0.14			3.60	11.28		0.00	16.69	0.32	21.92	0.00	16.32				
0000					0.40			0.22			3.60	11.24		0.00	16.66	0.40	21.94	0.00	16.51				
12-22																							
0800					0.09			0.12			3.50	11.05		0.00	16.74	0.34	21.98	0.00	16.80				
1200					0.06			0.02			3.60	11.74		0.00	16.28	0.06	21.96	0.00	16.74				
1600					0.08			0.04			3.40	11.81		0.00	16.54	0.08	21.94	0.00	16.82				
2000					0.06			0.04			3.50	11.72		0.00	16.66	0.06	21.86	0.00	16.84				
0000					0.12			0.04			3.50	12.01		0.00	16.86	0.09	21.72	0.00	16.92				
12-23																							
0800					0.04			0.08			3.40	12.05		0.00	16.98	0.08	20.16	0.00	16.94				
1200					0.04			0.06			3.50	12.07		0.00	16.97	0.06	20.09	0.00	16.85				
1600					0.06			0.08			3.60	12.14		0.00	16.54	0.06	20.14	0.00	16.92				
2000					0.04			0.04			3.40	12.17		0.00	16.68	0.08	20.18	0.00	16.84				
0000					0.06			0.02			3.60	12.14		0.00	16.86	0.08	20.22	0.00	16.96				

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/24/2009 Page 6A of 13

Client: IERI - JIM HO Operator (s): Faustino

		EXTRACTION WELLS												OBSERVATION WELLS									
	Well I.D.	D5			D6			D8						D9		EW-1						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)	22-40			20-50			22-40						22-50		25-05							
	Initial Depth To Water DTW (ft)	9-50			8-30			8-05						13-30		9-05							
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-24					ON		17'	OFF			OFF			OFF		ON	17'						
0800	15	118	1400	1921	1354											1484						180 30	10650
1200	15	118	1407	1978																			
1600	15	118	1400	1976																			

Comments: 12-24-09 TOTAL INLET D5, EW-1 @ 1200 (1978 PPMV) Ground Water MW-4 @ 1605 MW-7 @ 1610.

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/24/2009 Page 6B of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				VP-5			VP-2			MW-4			MW-4D		MW-7		MW-7D					
	Screen Interval: From-To (ft)										24.40			42.20		25.90		43.00					
	Initial Depth To Water DTW (ft)										9.30			17.21		24.80		16.95					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
12-24																							
0800					0.06			0.08			3.70	12.18		0.00	16.94	0.12	20.76	0.00	16.85				
1200					0.06			0.04			3.60	12.17		0.00	16.98	0.14	20.28	0.00	16.86				
1600					0.14			0.06			3.40	11.64		0.00	16.84	0.06	20.05	0.00	16.84				

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/24/2009 Page 7A of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D1			D2			D3			D4		EW-1		D5					
	Screen Interval: From-To (ft)				22.40			22.55			22.40			22.55									
	Initial Depth To Water DTW (ft)				8.14			7.12			11.51			8.10									
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units 7380	Cumul. Water Extracted gals
12-24					ON		16'	ON		15'	ON		22'	ON	16'	ON	17'	ON	17'				
1615		S T-RT																					
1706	15	198	1418	1134	1284			318			2240			728									
2000	15	197	1467	1238	1321			384			2346			1211		1382		1283				18450	11070
0000	15	201	1406	1284																			
12-25																							
0800	15	204	1408	1246	1192			473			1533			1628		1263		1191				18520	11140
1200	15	206	1408	1249												[illegible]							
1600	15	208	1406	1321																			
2000	15	198	1469	1264	1164			468			1523											18620	11240
0000	15	196	1408	1321																			
12-26																							
0800	15	208	1406	1346	958			704			2890			1598		1148		1204				18750	11370
1200	15	206	1407	1298																			
1600	15	207	1405	1521																			
2000	15	198	1408	1424	974			566			2710			1466		1134		1206				18860	11480
0000	15	196	1407	1416																			

Comments: 12-24-09 Ground Water MW-3 @ 1530, MW-5 @ 1540, MW-8 @ 1550.
12-24-09 TOOK D1 @ 1625 (1284 PPMV) D2 @ 1635 (318 PPMV) D3 1645 (2240 PPMV) D4 @ 1655 (728 PPMV)
TOTAL INLET @ 1705 (1134 PPMV)

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12 /24/ 2009 Page 13 of 13

Client: IERI - JIM HO Operator (s): Faustino

		EXTRACTION WELLS												OBSERVATION WELLS									
	Well I.D.							MW-3			MW-5			MW-6		MW-8		IS-6		IS-1			
	Screen Interval: From-To (ft)							23.04			25.50			25.27		24.55		27.35		24.87			
	Initial Depth To Water DTW (ft)							12.13			7.70			11.61		8.17		7.13		8.01			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
12-24																							
1600	START																						
2000								11.00	12.13		0.00	7.96		0.00	11.64	0.00	8.53	0.64	7.14	0.00	8.05		
0000								0.00	12.11		0.00	7.84		0.00	11.62	0.00	8.94	0.76	7.22	0.00	8.06		
12-25																							
0800								0.00	12.14		0.00	8.41		0.00	11.63	0.00	9.02	0.70	7.95	0.00	8.05		
1200								0.00	12.12		0.00	8.46		0.00	11.62	0.00	9.16	0.72	7.96	0.00	8.04		
1600								0.00	12.14		0.00	8.58		0.00	11.61	0.00	9.24	0.70	7.98	0.00	8.01		
2000								0.00	12.14		0.00	8.76		0.00	11.61	0.00	9.26	0.72	8.04	0.00	8.06		
0000								0.00	12.13		0.00	8.77		0.00	11.62	0.00	9.27	0.74	8.16	0.00	8.08		
12-26																							
0800								0.00	12.13		0.00	8.92		0.00	11.61	0.00	9.28	0.72	8.25	0.06	8.10		
1200								0.17	12.16		0.00	13.05		0.00	11.67	0.00	9.40	0.76	12.71	0.00	8.10		
1600								0.06	12.16		0.00	13.02		0.00	11.64	0.00	9.32	0.72	12.71	0.00	8.10		
2000								0.06	12.16		0.00	13.02		0.00	11.63	0.00	9.34	0.72	12.73	0.00	8.11		
0000								0.17	12.17		0.00	13.04		0.00	11.66	0.00	9.32	0.74	12.74	0.00	8.12		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/27/2009 Page 8A of 13

Client: IERI - JIM HO Operator (s): Faustino

			EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.		D1			D2			D3			D4		EW-1		D5				Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)		22.40			22-55			22.40			22-55		25-05		22-40					
	Initial Depth To Water DTW (ft)		8.14			17.12			11.51			8.10		9.05		9.50					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
12-27					ON		16'	ON		15'	ON		22'	ON	16'	ON	17'	ON	17				
0800	15	204	1406	1436	966			584			2610			1462		1171		1707				19080	11700
1200	15	206	1400	1428																			
1600	15	208	1401	1324																			
2000	15	204	1400	1317	984			532			2549			1466		1124		1709				19180	11800
0000	15	208	1402	1341																			
12-28																							
0800	15	204	1401	1362	972			528			2520			1348		1118		1714				19230	11850
1200	15	206	1402	1314																			
1600	15	208	1460	1281																			
2000	15	204	1401	1234	954			532			2180			1327		1104		1221				19390	12010
0000	15	208	1400	1284																			
12-29																							
0800	15	206	1400	1246	576			515			1461			1215		986		1189				19560	12180
1200	15	207	1400	1232																			
1600	15	204	1400	1231																			
2000	15	208	1400	1184	621			514			1315			1217		963		1144				19730	12350
0000	15	206	1400	1128																			

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/27/2009 Page 8B of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				IS-4			MW-3			MW-5			MW-6		MW-8		IS-6		IS-1		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)							23-04			25-50			25.27		24-55		27.35		24-87			
	Initial Depth To Water DTW (ft)				7.51			12.13			7.70			11.61		8.17		7.13		8.01			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
12-27																							
0800								0.08	12.18		0.00	8.58		0.00	11.58	0.00	9.38	0.00	8.27	0.00	7.94		
1200								0.08	12.19		0.00	8.59		0.00	11.56	0.00	9.40	0.00	8.28	0.00	7.86		
1600								0.06	12.56		0.00	12.93		0.00	11.61	0.00	9.44	0.00	12.83	0.00	7.85		
2000								0.08	12.32		0.00	12.07		0.00	11.64	0.00	9.42	0.00	12.44	0.00	7.86		
0000								0.04	12.26		0.00	12.01		0.00	11.62	0.00	9.41	0.00	12.48	0.00	7.84		
12-28																							
0800								0.02	12.21		0.00	11.87		0.00	11.66	0.00	9.41	0.00	12.46	0.00	7.85		
1200					START			0.04	16.57		0.00	8.47		0.00	15.97	0.00	9.35	0.00	8.02	0.00	7.88		
1600					0.94	7.51		0.36	12.21		0.00	12.81		0.00	11.63	0.00	9.41	0.00	8.12	0.00	7.84		
2000					0.80	7.78		0.34	12.21		0.00	11.76		0.00	11.68	0.00	9.36	0.00	8.14	0.00	7.82		
0000					1.10	7.76		0.32	12.23		0.00	11.24		0.00	11.67	0.00	9.41	0.00	8.16	0.00	7.86		
12-29																							
0800					1.20	7.84		0.44	12.24		0.00	8.48		0.00	11.77	0.00	9.32	0.00	8.15	0.00	7.91		
1200					0.60	7.92		0.06	12.27		0.00	8.46		0.00	11.70	0.00	9.41	0.00	8.21	0.00	7.93		
1600					0.40	8.11		0.04	12.25		0.00	8.58		0.06	11.71	0.00	9.37	0.00	8.20	0.00	7.94		
2000					0.30	8.14		0.04	12.26		0.00	8.57		0.00	11.72	0.00	9.36	0.00	8.21	0.00	7.96		
0000					0.40	8.13		0.08	12.27		0.00	8.56		0.00	11.71	0.00	9.37	0.00	8.22	0.00	7.95		

Comments: 12-28-09 IS-4 START TOOK DTW AND VAC.

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/30/2009 Page 9A of 13

Client: IERI - JIM HO Operator (s): _____

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D1			D2			D3			D4		EW-1		D5					
	Screen Interval: From-To (ft)				22-40			22-55			22-40			22-55		25-05		22-40					
	Initial Depth To Water DTW (ft)				8.14			17.12			11.51			8.10		9.05		9.50					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
																						7380	
12-30					ON		16'	ON		15'	ON		22'	ON	16'	ON	17'	ON	17'				
0800	15	198	1401	1584	584			514			1482			966		784		1031				19770	12390
1200	15	196	1400	1622																			
1600	15	196	1400	1684																			
2000	15	198	1400	1567	532			518			1424			896		941		1014				20040	12660
0000	15	204	1407	1536																			
12-31																							
0800	15	206	1411	1484	748			598			1732			1027		1064		835				20070	12690
1200	15	208	1401	1463																			
1600	15	204	1401	1432																			
2000	15	206	1401	1521	786			564			1781			1634		1086		896				20570	13190
0000	15	204	1407	1554																			
1-01																							
0800	15	206	1407	1536	761			582			1621			1017		1076		921				20670	13290
1200	15	208	1406	1421	548			783			2040			1565		1016		1074					
1600	15	206	1407	1342		16.21			20.32								14.21		12.48				

Comments: 1-01-2010 Ground Water MW-3 @ 1500, MW-5 @ 1510, MW-8 @ 1570.
1-01-2010 TOTAL INLET @ 1525 (1346 PPMV) D1 @ 1530 (562 PPMV) D2 @ 1535 (794 PPMV)
D3 @ 1540 (2030 PPMV) D4 @ 1545 (1584 PPMV) EW-1 @ 1550 (928 PPMV) D5 @ 1555 (1074 PPMV)

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 12/30/2009 Page 98 of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				IS-4			MW-3			MW-5			MW-6		MW-8		IS-6		IS-1		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)							23-04			25-50			25.27		25.55		27.35		24.87			
	Initial Depth To Water DTW (ft)				7.51			12.13			7.70			11.61		8.17		7.13		8.01			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
12-30					VAC			VAC			VAC												
0800					0.40	8.31		0.06	12.62		0.00	8.64		0.00	11.71	0.00	9.35	0.00	8.37	0.00	7.90		
1200					0.06	8.01		0.04	12.29		0.00	8.69		0.00	11.75	0.00	9.41	0.00	8.41	0.00	8.01		
1600					0.30	12.81		0.02	12.28		0.00	8.54		0.00	11.76	0.00	9.36	0.00	8.38	0.00	8.04		
2000					0.40	12.42		0.04	12.26		0.00	8.62		0.00	11.72	0.00	9.28	0.00	8.42	0.00	8.06		
0000					0.30	12.44		0.08	12.36		0.00	12.51		0.00	11.74	0.00	9.32	0.00	8.54	0.00	8.02		
12-31																							
0800					0.04	8.54		0.06	12.35		0.00	13.01		0.00	11.75	0.00	9.34	0.00	8.36	0.00	8.06		
1200					0.06	12.01		0.14	12.38		0.00	13.14		0.00	11.76	0.00	9.28	0.00	8.96	0.00	8.23		
1600					0.06	12.06		0.16	12.41		0.00	13.12		0.06	11.84	0.00	9.32	0.00	8.94	0.00	8.14		
2000					0.06	12.08		0.14	12.42		0.00	13.18		0.00	11.76	0.00	9.41	0.00	8.96	0.00	8.02		
0000					0.08	12.14		0.12	12.41		0.00	13.12		0.00	11.72	0.00	9.46	0.00	8.98	0.00	8.18		
1-01																							
0800					0.00	12.11		0.04	12.51		0.00	13.18		0.00	11.76	0.00	9.66	0.00	8.96	0.00	8.14		
1200					0.02	12.17		0.06	12.62		0.00	13.22		0.06	11.84	0.00	9.42	0.00	8.82	0.00	8.16		
1600					0.12	8.61		0.6	12.41		0.00	8.71		0.00	11.84	0.00	9.41	0.00	8.47	0.00	8.07		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 1/01/2009 Page 10A of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D7			D10			D11			D12		D3		D4				Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				29.90			28.30			29.50			29.70		22.40		22.55		-			
	Initial Depth To Water DTW (ft)				16.10			11.60			11.25			12.20		11.51		8.10					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units 7380	gals
1-01					ON		25'	ON		20'	ON		20'	ON	22'		22'		16'				
1600	START				2060			2670			1621			6450		986		1035					
1700	13	218	1400	1682																			
2000	13	222	1405	2030	1821			2410			1524			5010		1014		1204				20780	13400
0000	13	218	1406	2110																			
1-02																							
0800	13	224	1415	1984	1302			2730			984			2530		1531		1434				21270	13890
1200	13	218	1402	1836																			
1600	13	218	1406	1762																			
2000	13	214	1407	1628	784			2276			1128			1756		1428		1078				21700	14320
0000	13	218	1408	1536																			
1-3																							
0800	13	224	1407	1431	554			1709			812			1311		1386		1134				22130	14750
1200	13	222	1400	1346																			
1600	13	214	1400	1236																			
2000	13	218	1405	1227	818			1158			1018			1479		1145		1184				22470	15090
0000	13	218	1406	1232																			

Comments: 1-01-2010 GROUND WATER TS-5 @ 1455, IS-4 @ 1500, IS-1 @ 1505, MW-8 @ 1510
1-01-2010. SAMPLE TOOK D7 @ 1640 (2060 PPMV) D10 @ 1645 (2070 PPMV)
D11 @ 1650 (1621 PPMV) D12 @ 1655 (6450 PPMV) TOTAL INLET @ 1700 (1682 PPMV)

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 1/01/2009 Page 108 of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				MW-7			MW-8 ✓			VP-2			IS-1		IS-3		IS-4		IS-5 ✓		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)																						
	Initial Depth To Water DTW (ft)				17.99			13.09						8.56		10.87		8.89		9.66			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On VAC (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW VAC (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
1-01																							
1600	START				-																		
2000					0.10	18.35		1.50	12.05			0.06		0.10	8.20	3.60	16.65	0.00	9.07	0.00	9.70		
0000					0.10	18.34		1.20	12.08			0.06		0.10	8.34	3.80	16.85	0.00	9.12	0.00	9.81		
1-02																							
0800					0.17	17.99		1.40	12.69	FP		0.12		0.00	8.56	3.80	10.87	0.00	8.89	0.00	9.87		
1200					0.14	17.96		2.30	12.45	12.34		0.14		0.00	8.54	3.90	10.96	0.00	8.96	0.00	9.88		
1600					0.11	17.93		2.40	12.45	12.35		0.10		0.05	8.58	3.70	10.82	0.00	8.82	0.00	9.85		
2000					0.10	17.81		1.30	12.40	12.25		0.10		0.00	8.66	3.80	10.60 10.25	0.00	8.81	0.00	9.81		
0000					0.06	17.91		1.40	12.84	12.54		0.06		0.00	8.76	3.90	11.05 10.65	0.00	8.91	0.00	9.78		
1-03																							
0800					0.14	17.45		1.40	12.78	12.55		0.04		0.00	8.75	3.80	11.07 10.65	0.00	8.74	0.00	9.85		
1200					0.12	17.66		1.40	12.80	12.55		0.04		0.00	8.77	3.90	11.04 10.98	0.00	8.94	0.00	9.96		
1600					0.12	17.78		1.30	12.84	12.45		0.06		0.00	8.81	3.90	10.80 10.84	0.00	8.74	0.00	9.89		
2000					0.14	17.54		1.40	12.86	12.54		0.02		0.00	8.96	3.80	10.76 10.40	0.00	8.76	0.00	9.96		
0000					0.06	17.66		1.60	12.74	12.32		0.04		0.00	8.94	3.90	11.07 11.01	0.00	8.96	0.00	9.98		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET | City: OAKLAND | Site #: EAGLE GAS | Date: 1/04/2010 | Page 11A of 13

Client: IERI - JIM HO | Operator (s): FAUSTINO

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				D7			D10			D11			D12		D3		D4					
	Screen Interval: From-To (ft)				29.90			28.30			29.50			29.70		22.40		22.55					
	Initial Depth To Water DTW (ft)				16.10			11.60			11.25			12.20		11.51		8.10					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings	Cumul. Water Extracted
																						units	gals
																						7380	
1-04					ON		25'	ON		20'	ON		20'	ON	22'	ON	22'	ON	16'				
0800	13	216	1401	1186	668			1214			812			1436		1173		1074				23030	15650
1145	13	224	1402	1188	OFF						OFF												
1200	13	224	642	1322	ON	IS-3	13'				ON	MW8	15'										
1600	13	224	644	1334	2630			832			947			1328		964		912				23270	15890
2000	13	226	642	1317																			
000	13	224	646	1384																			
1-05																							
0800	13	226	648	1322	1664			665			658			1097		871		875				23980	16600
1200	13	224	642	1318																			
1600	13	218	646	1286																			
2000	13	216	642	1184	1586			624			781			1186		814		836				24190	16810
2300	13	224	646	1176														832	OFF				
0000	13	226	647	946														ON	D11				
1-06																			25'				
0810	13	214	642	986	1326			566			784			1132		807			532			25060	17680
1200	13	218	646	1058																			
1600	13	224	642	1026																			
2000	13	226	644	987	1216			584			684			1096		798			456			25140	17760
0000	13	218	642	1021																			

Comments: 1-04-2010 CLOSED D11 @ 1000 (864 PPMV) CLOSED D7 @ 1010 (829 PPMV)
1-04-2010 OPEN MW-8 @ 1100 (1104 PPMV) OPEN IS-3 @ 1300 (4180 PPMV)
1-04-2010 UNIT CHANGE TO CATALITY 1-05- CLOSED D4 @ 1100 OPEN D11 @ 1110 (447 PPMV)

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET | City: OAKLAND | Site #: EAGLE GAS | Date: 1/04/2009 | Page 11B of 13

Client: IERI - JIM HO | Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				MW-7			MW-8			VP-2			IS-1		IS-3		IS-4		IS-5		Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				25-90			24.55						24.87		24.07		24.89		1600			
	Initial Depth To Water DTW (ft)				17.99			13-09						8.56		10.87		8.89		9.66			
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
1-04					VAC	.		VA		FP	VAC												
0800					0.14	17.11		1.30	11.31	11.80	0.06			0.00	8.86	3.60	11.80 11.31	0.00	9.22	0.00	9.95		
1200					0.06	17.32		CLOSED			0.04			0.00	8.91	CLOSE		0.00	9.54	0.00	9.96		
1600					0.12	17.46					0.06			0.00	8.86			0.00	8.81	0.30	9.91		
2000					0.12	17.96					0.08			0.00	8.94			0.00	9.04	0.18	9.98		
0000					0.06	17.84					0.04			0.00	8.92			0.00	9.14	0.14	9.96		
1-05																							
0800					0.08	18.01					0.04			0.00	8.95			0.00	9.95	0.44	9.91		
1200					0.06	18.02					0.06			0.00	8.96			0.00	8.85	0.12	9.91		
1600					0.06	17.96					0.04			0.00	8.91			0.00	8.91	0.16	9.84		
2000					0.04	18.07					0.06			0.00	8.84			0.00	8.96	0.14	9.91		
0000					0.06	18.11					0.04			0.00	8.96			0.00	8.94	0.06	9.92		
1-06																							
0800					0.06	17.84					0.06			0.00	8.84			0.00	8.91	0.04	9.86		
1200					0.08	18.01					0.06			0.00	8.96			0.00	8.94	0.06	9.98		
1600					0.06	18.04					0.04			0.00	8.98			0.00	8.96	0.08	9.96		
2000					0.06	18.08					0.06			0.00	8.96			0.00	8.92	0.06	9.91		
0000					0.04	18.14					0.04			0.00	8.94			0.00	8.89	0.04	9.14		

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 1/07/2010 Page 12A of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				IS-3			D10			MW-8			D12		D3		D11					
	Screen Interval: From-To (ft)				24-07			28-30			24-81			29-70		22-40		29-50					
	Initial Depth To Water DTW (ft)				10.87			11.60			8.17			12.20		11.51		11.25					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
																						7380	
1-07					ON		13'	ON		20'	ON		15'	ON	22'	ON	23'	ON	25'				
0800	13	224	648	1017	1184			421	21.05	CLOSED	621			952		768		388				26060	18680
								ON	D4	16"													
1200	13	226	643	994																			
1600	13	218	646	896																			
2000	13	226	642	1043	1168			1042			421			1397		785		611				26150	18770
0000	13	218	644	1221																			
1-08																							
0800	13	224	646	963	723			841			416			873		648		614				27070	19690
1200	13	222	643	821																			
1600	13	224	642	841																			
2000	13	216	641	782	707			854			356			821		632		584				27300	19920
0000	13	218	643	734																			
1-09																							
0800	13	214	642	742	913			764			435			958		692		538				28130	20750
1200	13	218	646	678																			
1600	13	226	642	721																			
2000	13	228	642	622	914			736			426			924		641		532				28300	20970
0000	13	224	638	648																			

Comments: 1-07-2010 CLOSED D10 @ 0930 (421 PPMV) OPEN D4 @ 1000 (966 PPMV)

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET | City: OAKLAND | Site #: EAGLE GAS | Date: 1/07/2009 | Page 12 of 13

Client: IERI - JIM HO | Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				MW-7			IS-4			IS-5			IS-1		VR2						Water Meter Readings	Cumul. Water Extracted
	Screen Interval: From-To (ft)				25-90			24.55			16.00			24.87									
	Initial Depth To Water DTW (ft)				17.99			8.89			9.66			8.56									
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	units	gals
1-07					VAC			VAC			VAC												
0800					0.10	17.96		0.00	8.91		0.00	9.84		0.06	8.76	0.08							
1200					0.60	17.96		0.00	8.98		0.80	9.96		0.00	8.81	0.08							
1600					0.10	17.94		0.00	8.99		0.16	9.92		0.00	8.84	0.06							
2000					0.10	17.99		0.00	8.96		0.08	9.99		0.00	8.91	0.12							
0000					0.4	18.01		0.00	8.94		0.14	9.94		0.00	8.96	0.14							
1-08																							
0800					0.06	17.98		0.00	8.98		1.60	9.84		0.00	9.01	0.06							
1200					0.16	18.01		0.00	9.11		1.80	10.01		0.00	8.89	0.06							
1600					0.10	18.02		0.06	9.14		1.60	10.02		0.00	8.91	0.04							
2000					0.06	18.04		0.00	9.16		1.40	10.11		0.00	8.92	0.06							
0000					0.06	17.91		0.00	9.04		1.60	10.04		0.00	8.89	0.04							
1-09																							
0800					0.04	17.96		0.00	9.01		1.40	10.01		0.00	8.75	0.06							
1200					0.06	17.91		0.06	9.68		1.30	10.02		0.00	8.81	0.04							
1600					0.06	18.21		0.00	9.17		1.20	10.07		0.00	8.76	0.08							
2000					0.08	18.14		0.00	9.08		1.20	10.01		0.00	8.81	0.06							
0000					0.06	18.21		0.09	9.14		1.60	10.02		0.00	8.66	0.04							

Comments:

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 1/10/2010 Page 13A of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				IS-3			D4			MW-8			D12		D3		D11					
	Screen Interval: From-To (ft)				24.07			22.55			24.81			29.70		22.410		29.50					
	Initial Depth To Water DTW (ft)				10.87			8.10			8.17			12.20		11.51		11.25					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings units	Cumul. Water Extracted gals
																						7380	
1-10					ON		13'	ON		16'	ON		15'	ON	22	ON	23	ON	25'				
0800	13	226	642	638	821			642			354			842		646		658				29130	21750
1200	13	224	643	734																			
1600	13	242	642	776	671	14.44		572	16.62		281	14.85		799	22.71	741	22.41	341	25.10			29890	22510

Comments: 1-10-2010 SAMPLE TOTAL INLET @ 1510 (776PPMV) D3 @1515 (741PPMV) D4 @1570 (572 PPMV) IS-3 @1525 (661PPMV). MW-8 @1530 (281 PPMV). D-12 @1535 (799PPMV). D-11 @1540 (341 PPMV). GROUND WATER FROM IS-1 @1605. IS-4 @1610. IS-5 @1615. MW-8 @1600.

HIGH VACUUM [ ] SVE or [X] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137

Project Location: 4301 SAN LEANDRO STREET City: OAKLAND Site #: EAGLE GAS Date: 1/10/2009 Page 13B of 13

Client: IERI - JIM HO Operator (s): Faustino

					EXTRACTION WELLS									OBSERVATION WELLS									
	Well I.D.				MW-7			IS-4			IS-5			IS-1		VP-2							
	Screen Interval: From-To (ft)				25.90			24.55			16.00			24.87									
	Initial Depth To Water DTW (ft)				17.99			8.99			9.66			8.56									
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Vacuum "H_2O	DTW (ft)	Water Meter Readings	Cumul. Water Extracted
																						units	gals
1-10					VAC			VAC			VAC												
0800					0.12	18.14		0.00	9.04		1.40	9.98		0.00	8.91	0.06							
1200					0.14	18.12		0.00	9.08		1.60	9.96		0.00	8.62	0.04							
1600					0.06	18.09		0.00	9.12		1.30	9.84		0.00	8.76	0.08							

Comments:

APPENDIX D

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 246441
REPORTED 12/28/2009
RECEIVED 12/16/2009

PROJECT EAGLE GAS STATION, OAKLAND

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1044114	D5
1044115	D6
1044116	D8
1044117	EW-1
1044118	TOTAL INLET
1044119	STACK

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1044114
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 16:15
Sampled By:

Client: Calclean
Client Sample ID: D5

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	9.3	10	0.1	Vppm	12/21/09	SW
Ethyl benzene	16	10	0.1	Vppm	12/21/09	SW
Methyl t - butyl ether	286	50	5.0	Vppm	12/21/09	SW
Toluene	84	50	0.5	Vppm	12/21/09	SW
Xylene (total)	18	10	0.3	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	2160	10	50.0	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044115
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 16:30
Sampled By:

Client: Calclean
Client Sample ID: D6

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.35	1	0.01	Vppm	12/21/09	SW
Ethyl benzene	0.90	1	0.01	Vppm	12/21/09	SW
Methyl t - butyl ether	8.9	2	0.2	Vppm	12/21/09	SW
Toluene	2.0	1	0.01	Vppm	12/21/09	SW
Xylene (total)	2.6	1	0.03	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	21	1	5.0	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044116
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 16:45
Sampled By:

Client: Calclean
Client Sample ID: D8

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.62	3	0.025	Vppm	12/21/09	SW
Ethyl benzene	3.5	3	0.025	Vppm	12/21/09	SW
Methyl t - butyl ether	57	50	5.0	Vppm	12/21/09	SW
Toluene	5.4	3	0.025	Vppm	12/21/09	SW
Xylene (total)	7.4	3	0.075	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	120	3	12.5	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044117
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 17:00
Sampled By:

Client: Calclean
Client Sample ID: EW-1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	36	100	1.0	Vppm	12/21/09	SW
Ethyl benzene	25	100	1.0	Vppm	12/21/09	SW
Methyl t - butyl ether	570	250	25.0	Vppm	12/21/09	SW
Toluene	143	100	1.0	Vppm	12/21/09	SW
Xylene (total)	38	100	3.0	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	7170	100	500.0	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044118
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 17:10
Sampled By:

Client: Calclean
Client Sample ID: TOTAL INLET

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	16	100	1.0	Vppm	12/21/09	SW
Ethyl benzene	14	100	1.0	Vppm	12/21/09	SW
Methyl t - butyl ether	312	100	10.0	Vppm	12/21/09	SW
Toluene	75	100	1.0	Vppm	12/21/09	SW
Xylene (total)	34	100	3.0	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	2570	100	500.0	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044119
Matrix: AIR
Date Sampled: 12/10/2009
Time Sampled: 17:20
Sampled By:

Client: Calclean
Client Sample ID: STACK

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.06	1	0.01	Vppm	12/21/09	SW
Ethyl benzene	0.01	1	0.01	Vppm	12/21/09	SW
Methyl t - butyl ether	0.15	1	0.10	Vppm	12/21/09	SW
Toluene	0.33	1	0.01	Vppm	12/21/09	SW
Xylene (total)	0.24	1	0.03	Vppm	12/21/09	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	ND	1	5.0	Vppm	12/21/09	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: 246443-122

Matrix: AIR

Prep. Date : December 21, 2009

Analysis Date: December 21, 2009

Lab ID#'s in Batch: 246443, 246664, 246665, 246667, 246582, 246441, 246673

REPORTING UNITS = Vppm

SAMPLE DUPLICATE RESULT

Test	Method	Sample Result	Sample Duplicate	%RPD
Gas	8015M	1,772.75	1,674.77	6
Benzene	8021B	16.12	15.32	5
Toluene	8021B	88.27	83.70	5
Ethylbenzene	8021B	11.91	10.15	16
Xylenes	8021B	52.52	44.60	16

ND = "U" - Not Detected
RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Chain of Custody Record

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	246441

Page 1 of 1

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1	D5		12/10/09	1615	AIR	TEDLAR	NONE	X	X		
2	D6			1630							
3	D8			1645							
4	EW-1			1700							
5	TOTAL INLET			1710							
6	STACK			1720							
7											
8											
9		5-DAY TAT FOR REPORT									
10											
11											
12											EDF
13											TO 6001143649
14											AIR=PPMV
15											

Analysis Requested

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:		Relinquished by	Relinquished by
Signature:	Noel Shenoi	Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date: / Time:	12/16/09 1301	Date: / Time:	Date: / Time:
Received By:		Received By:	Received By:
Signature:	Eelbert	Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date: / Time:	12/16/09 1301	Date: / Time:	Date: / Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 246490
REPORTED 12/24/2009
RECEIVED 12/16/2009

PROJECT Eagle Gas Station, Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1044211	MW-4
1044212	MW-7
1044213	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1044211
Matrix: WATER
Date Sampled: 12/09/2009
Time Sampled: 10:05
Sampled By:

Client: Calclean
Client Sample ID: MW-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	1310	50	50.0	ug/L	12/21/09 YL
Ethyl benzene	883	50	250.0	ug/L	12/21/09 YL
Methyl-tert-butylether (MTBE)	74400	500	500.0	ug/L	12/22/09 YL
Toluene	205 J	50	250.0	ug/L	12/21/09 YL
Xylenes, total	4150	50	250.0	ug/L	12/21/09 YL
Di-isopropyl ether (DIPE)	ND	50	50.0	ug/L	12/21/09 YL
Ethyl-tertbutylether (ETBE)	ND	50	50.0	ug/L	12/21/09 YL
Tert-amylmethylether (TAME)	ND	50	50.0	ug/L	12/21/09 YL
Tertiary butyl alcohol (TBA)	329000	500	5000.0	ug/L	12/22/09 YL
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	97			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	95			%	70 - 135
Surr3 - Toluene-d8	104			%	70 - 135
Surr4 - p-Bromofluorobenzene	101			%	70 - 135
8015B - Gasoline					
Gasoline	110000	800	40000.0	ug/L	12/21/09 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	82			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044212
Matrix: WATER
Date Sampled: 12/09/2009
Time Sampled: 10:15
Sampled By:

Client: Calclean
Client Sample ID: MW-7

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	24	1	1	ug/L	12/21/09 YL
Ethyl benzene	6.9	1	5	ug/L	12/21/09 YL
Methyl-tert-butylether (MTBE)	3000	25	25.0	ug/L	12/22/09 YL
Toluene	ND	1	5	ug/L	12/21/09 YL
Xylenes, total	2.2	1	5	ug/L	12/21/09 YL
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	12/21/09 YL
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	12/21/09 YL
Tert-amylmethylether (TAME)	11	1	1.0	ug/L	12/21/09 YL
Tertiary butyl alcohol (TBA)	46200	50	500.0	ug/L	12/22/09 YL
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	100			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	97			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	98			%	70 - 135
8015B - Gasoline					
Gasoline	4070	40	2000.0	ug/L	12/23/09 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	83			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1044213
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Calclean
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1	1	ug/L	12/20/09 YL
Ethyl benzene	ND	1	5	ug/L	12/20/09 YL
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	12/20/09 YL
Toluene	ND	1	5	ug/L	12/20/09 YL
Xylenes, total	ND	1	5	ug/L	12/20/09 YL
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	12/20/09 YL
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	12/20/09 YL
Tert-amylmethylether (TAME)	ND	1	1.0	ug/L	12/20/09 YL
Tertiary butyl alcohol (TBA)	ND	1	10	ug/L	12/20/09 YL
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	91			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	98			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	101			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1	50	ug/L	12/20/09 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	79			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

246490

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	

Page 1 of 1

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	TPH-D (8015)	Test Instructions & Comments
1			~~12/9/09~~		~~AIR~~	~~TEDLAR~~	~~NONE~~					
2												
3	MW-4		12/9/09	1005	W	3 VOA	HCl	X		X	X	
4												
5	MW-7		12/9/09	1015	W	3 VOA	HCl	X		X	X	
6												
7												
8												
9												
10		5 DAY TAT										
11												
12												
13												
14												
15												

Analysis Requested

EDF
TO #001436 49
~~AIR=RPMX~~

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:			
Signature:	Noel Shenoi		
Printed Name:			
Date: / Time:	12/16/09 1300		
Received By:			
Signature:			
Printed Name:			
Date: / Time:	12/16/09 1301		

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247240
REPORTED 01/11/2010
RECEIVED 12/31/2009

PROJECT Eagle Gas Station
Oakland, CA

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1047434	Total Inlet-12:00
1047435	D-5
1047436	D-8
1047437	D-9
1047438	D-6
1047439	EW-1
1047440	D-1
1047441	D-2
1047442	D-3
1047443	D-4
1047444	Total Inlet-17:05

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1047434
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 12:00
Sampled By:

Client: Calclean
Client Sample ID: Total Inlet-12:00

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	13	13	0.125	Vppm	01/05/10	SW
Ethyl benzene	6.3	13	0.125	Vppm	01/05/10	SW
Methyl t - butyl ether	130	50	5.0	Vppm	01/05/10	SW
Toluene	50	13	0.125	Vppm	01/05/10	SW
Xylene (total)	20	13	0.375	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1190	13	62.5	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047435
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 12:25
Sampled By:

Client: Calclean
Client Sample ID: D-5

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.15	1	0.01	Vppm	01/05/10	SW
Ethyl benzene	1.1	1	0.01	Vppm	01/05/10	SW
Methyl t - butyl ether	8.2	13	1.25	Vppm	01/05/10	SW
Toluene	1.4	1	0.01	Vppm	01/05/10	SW
Xylene (total)	2.9	1	0.03	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	33	1	5.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047436
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 12:35
Sampled By:

Client: Calclean
Client Sample ID: D-8

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.15	1	0.01	Vppm	01/05/10	SW
Ethyl benzene	1.3	1	0.01	Vppm	01/05/10	SW
Methyl t - butyl ether	4.1	1	0.10	Vppm	01/05/10	SW
Toluene	0.66	1	0.01	Vppm	01/05/10	SW
Xylene (total)	3.3	1	0.03	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	21	1	5.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047437
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 12:45
Sampled By:

Client: Calclean
Client Sample ID: D-9

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.07	1	0.01	Vppm	01/05/10	SW
Ethyl benzene	0.28	1	0.01	Vppm	01/05/10	SW
Methyl t - butyl ether	1.4	1	0.10	Vppm	01/05/10	SW
Toluene	0.63	1	0.01	Vppm	01/05/10	SW
Xylene (total)	0.93	1	0.03	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	13	1	5.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047438
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 13:00
Sampled By:

Client: Calclean
Client Sample ID: D-6

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.10	1	0.01	Vppm	01/05/10	SW
Ethyl benzene	0.56	1	0.01	Vppm	01/05/10	SW
Methyl t - butyl ether	4.2	1	0.10	Vppm	01/05/10	SW
Toluene	0.96	1	0.01	Vppm	01/05/10	SW
Xylene (total)	1.6	1	0.03	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	24	1	5.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047439
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 13:15
Sampled By:

Client: Calclean
Client Sample ID: EW-1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	3.3	10	0.1	Vppm	01/05/10	SW
Ethyl benzene	3.7	10	0.1	Vppm	01/05/10	SW
Methyl t - butyl ether	20	10	1.0	Vppm	01/05/10	SW
Toluene	19	10	0.1	Vppm	01/05/10	SW
Xylene (total)	8.5	10	0.3	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	519	10	50.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047440
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 16:25
Sampled By:

Client: Calclean
Client Sample ID: D-1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	6.1	13	0.125	Vppm	01/05/10	SW
Ethyl benzene	3.4	13	0.125	Vppm	01/05/10	SW
Methyl t - butyl ether	30	13	1.25	Vppm	01/05/10	SW
Toluene	57	13	0.125	Vppm	01/05/10	SW
Xylene (total)	9.4	13	0.375	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1040	13	62.5	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047441
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 16:35
Sampled By:

Client: Calclean
Client Sample ID: D-2

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	0.78	5	0.05	Vppm	01/05/10	SW
Ethyl benzene	1.8	5	0.05	Vppm	01/05/10	SW
Methyl t - butyl ether	62	13	1.25	Vppm	01/05/10	SW
Toluene	10	5	0.05	Vppm	01/05/10	SW
Xylene (total)	4.4	5	0.15	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	238	5	25.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047442
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 16:45
Sampled By:

Client: Calclean
Client Sample ID: D-3

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	14	25	0.25	Vppm	01/05/10	SW
Ethyl benzene	6.2	25	0.25	Vppm	01/05/10	SW
Methyl t - butyl ether	122	25	2.5	Vppm	01/05/10	SW
Toluene	57	25	0.25	Vppm	01/05/10	SW
Xylene (total)	13	25	0.75	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1890	25	125.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047443
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 16:55
Sampled By:

Client: Calclean
Client Sample ID: D-4

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	4.2	13	0.125	Vppm	01/05/10	SW
Ethyl benzene	1.5	13	0.125	Vppm	01/05/10	SW
Methyl t - butyl ether	40	13	1.25	Vppm	01/05/10	SW
Toluene	13	13	0.125	Vppm	01/05/10	SW
Xylene (total)	3.3	13	0.375	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	588	13	62.5	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047444
Matrix: AIR
Date Sampled: 12/24/2009
Time Sampled: 17:05
Sampled By:

Client: Calclean
Client Sample ID: Total Inlet-17:05

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	8.7	10	0.1	Vppm	01/05/10	SW
Ethyl benzene	9.4	10	0.1	Vppm	01/05/10	SW
Methyl t - butyl ether	88	50	5.0	Vppm	01/05/10	SW
Toluene	51	50	0.5	Vppm	01/05/10	SW
Xylene (total)	17	10	0.3	Vppm	01/05/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1760	10	50.0	Vppm	01/05/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: 247240-444

Matrix: AIR

Prep. Date : January 5, 2010

Analysis Date: January 5, 2010

Lab ID#'s in Batch: 247240, 247331

REPORTING UNITS = Vppm

SAMPLE DUPLICATE RESULT

Test	Method	Sample Result	Sample Duplicate	%RPD
Gas	8015M	1,756.03	1,732.50	1
Benzene	8021B	8.66	8.81	2
Toluene	8021B	52.99	55.09	4
Ethylbenzene	8021B	9.41	9.11	3
Xylenes	8021B	16.79	14.61	14

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA		

A.L. Job No. 247240

Page 1 of 1

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1	TOTAL INLET		12/24/09	1200	AIR	TEDLAR	NONE	X	X		
2	D-5			1225							
3	D-8			1235							
4	D-9			1245							
5	D-6			1300							
6	EW-1			1315							
7	D-1			1625							
8	D-2			1635							
9	D-3			1645							
10	D-4			1655							
11	TOTAL INLET			1705							
12											
13											
14											
15											

Analysis Requested

EDF
TO 600143649
AIR=PPMV

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:	Signature: [signature]	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: 12/31/09 Time: 1149	Date: Time:	Date: Time:
Received By:	Signature: [signature]	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: 12-31-09 Time: 1149	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247249
REPORTED 01/12/2010
RECEIVED 12/31/2009

PROJECT Eagle Gas Station

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1047519	MW-3
1047520	MW-5
1047521	MW-8
1047522	MW-4
1047523	MW-7
1047524	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1047519
Matrix: WATER
Date Sampled: 12/24/2009
Time Sampled: 15:30
Sampled By:

Client: Calclean
Client Sample ID: MW-3

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	15	1	1	ug/L	01/05/10 RP
Ethyl benzene	ND	1	5	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	1050	100	100.0	ug/L	01/06/10 RP
Toluene	ND	1	5	ug/L	01/05/10 RP
Xylenes, total	ND	1	5	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	21	1	1.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	1.4	1	1.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	23	1	1.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	30000	100	1000.0	ug/L	01/06/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	100			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	102			%	70 - 135
Surr3 - Toluene-d8	106			%	70 - 135
Surr4 - p-Bromofluorobenzene	120			%	70 - 135
8015B - Gasoline					
Gasoline	850	10	500.0	ug/L	01/06/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	91			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047520
Matrix: WATER
Date Sampled: 12/24/2009
Time Sampled: 15:40
Sampled By:

Client: Calclean
Client Sample ID: MW-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	7.9	1	1	ug/L	01/05/10 RP
Ethyl benzene	ND	1	5	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	2330	100	100.0	ug/L	01/06/10 RP
Toluene	ND	1	5	ug/L	01/05/10 RP
Xylenes, total	ND	1	5	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	9.7	1	1.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	85	1	1.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	217000	200	2000.0	ug/L	01/08/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	97			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 135
Surr3 - Toluene-d8	104			%	70 - 135
Surr4 - p-Bromofluorobenzene	116			%	70 - 135
8015B - Gasoline					
Gasoline	1290	10	500.0	ug/L	01/05/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	113			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047521
Matrix: WATER
Date Sampled: 12/24/2009
Time Sampled: 15:50
Sampled By:

Client: Calclean
Client Sample ID: MW-8

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	2210	10	10.0	ug/L	01/05/10 RP
Ethyl benzene	74	10	50.0	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	127000	1000	1000.0	ug/L	01/06/10 RP
Toluene	ND	10	50.0	ug/L	01/05/10 RP
Xylenes, total	207	10	50.0	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	ND	10	10.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	14	10	10.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	791	10	10.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	279000	1000	10000.0	ug/L	01/06/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	100			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	96			%	70 - 135
Surr3 - Toluene-d8	97			%	70 - 135
Surr4 - p-Bromofluorobenzene	114			%	70 - 135
8015B - Gasoline					
Gasoline	90100	1000	50000.0	ug/L	01/06/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	90			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047522
Matrix: WATER
Date Sampled: 12/24/2009
Time Sampled: 16:05
Sampled By:

Client: Calclean
Client Sample ID: MW-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	1460	10	10.0	ug/L	01/05/10 RP
Ethyl benzene	1080	10	50.0	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	80800	100	100.0	ug/L	01/06/10 RP
Toluene	94	10	50.0	ug/L	01/05/10 RP
Xylenes, total	3880	10	50.0	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	ND	10	10.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	22	10	10.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	788	10	10.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	460000	100	1000.0	ug/L	01/06/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	102			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	96			%	70 - 135
Surr3 - Toluene-d8	99			%	70 - 135
Surr4 - p-Bromofluorobenzene	114			%	70 - 135
8015B - Gasoline					
Gasoline	75100	800	40000.0	ug/L	01/06/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	96			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047523
Matrix: WATER
Date Sampled: 12/24/2009
Time Sampled: 16:10
Sampled By:

Client: Calclean
Client Sample ID: MW-7

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	10	10.0	ug/L	01/05/10 RP
Ethyl benzene	ND	10	50.0	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	14400	100	100.0	ug/L	01/06/10 RP
Toluene	ND	10	50.0	ug/L	01/05/10 RP
Xylenes, total	ND	10	50.0	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	ND	10	10.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	ND	10	10.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	43	10	10.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	20300	100	1000.0	ug/L	01/06/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	101			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	105			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	114			%	70 - 135
8015B - Gasoline					
Gasoline	9380	100	5000.0	ug/L	01/06/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	98			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1047524
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Calclean
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1	1	ug/L	01/05/10 RP
Ethyl benzene	ND	1	5	ug/L	01/05/10 RP
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	01/05/10 RP
Toluene	ND	1	5	ug/L	01/05/10 RP
Xylenes, total	ND	1	5	ug/L	01/05/10 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	01/05/10 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	01/05/10 RP
Tert-amylmethylether (TAME)	ND	1	1.0	ug/L	01/05/10 RP
Tertiary butyl alcohol (TBA)	ND	1	10	ug/L	01/05/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	101			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	111			%	70 - 135
Surr3 - Toluene-d8	99			%	70 - 135
Surr4 - p-Bromofluorobenzene	121			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1	50	ug/L	01/05/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	110			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: January 6, 2010

Analysis Date 1/6/10-1/7/10

Lab ID#'s in Batch: 247249 , 247316 , 247319 , 247320 , 247354 , 247396 , 247404 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	454	427	91	85	6

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	94
LCS	106
LCSD	108

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: January 5, 2010

Analysis Date 1/5/10-1/6/10

Lab ID#'s in Batch: 247249 , 247217 , 247252 , 247268 , 247272 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	455	460	91	92	1

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	110
LCS	112
LCSD	112

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample* 247312-785
Date Prepared: January 5, 2010
Date Analyzed: 1/5-1/6/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247249, 247312, 247248, 247134

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	56.40	53.80	113	108	5	22	59 - 172
MTBE	0.00	50.0	57.60	56.10	115	112	3	24	62 - 137
Benzene	0.00	50.0	55.10	53.10	110	106	4	24	62 - 137
Trichloroethene	0.00	50.0	44.60	44.50	89	89	0	21	66 - 142
Toluene	0.00	50.0	46.40	45.90	93	92	1	21	59 - 139
Chlorobenzene	0.00	50.0	45.60	46.20	91	92	1	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	51.90	104	59 - 172
MTBE	50.0	54.10	108	62 - 137
Benzene	50.0	53.00	106	62 - 137
Trichloroethene	50.0	43.90	88	66 - 142
Toluene	50.0	48.10	96	59 - 139
Chlorobenzene	50.0	47.10	94	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	101	105		110	103		98	70 - 135
1,2-Dichloroethane-d4	111	109		106	104		99	70 - 135
Toluene-d8	99	102		96	92		95	70 - 135
p-Bromofluorobenzene	121	107		105	104		103	70 - 135

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample* 247354-053
Date Prepared: January 6, 2010
Date Analyzed: 1/6-1/7/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247312, 247249, 247354, 247314, 247265

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	71.80	67.60	144	135	6	22	59 - 172
MTBE	0.00	50.0	58.90	57.20	118	114	3	24	62 - 137
Benzene	0.00	50.0	57.70	53.70	115	107	7	24	62 - 137
Trichloroethene	62.00	50.0	98.70	104.00	73	84	5	21	66 - 142
Toluene	0.00	50.0	46.80	48.50	94	97	4	21	59 - 139
Chlorobenzene	0.00	50.0	48.00	48.40	96	97	1	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	52.50	105	59 - 172
MTBE	50.0	55.20	110	62 - 137
Benzene	50.0	50.20	100	62 - 137
Trichloroethene	50.0	43.60	87	66 - 142
Toluene	50.0	47.50	95	59 - 139
Chlorobenzene	50.0	45.70	91	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	102	113		112	108		102	70 - 135
1,2-Dichloroethane-d4	110	115		108	108		102	70 - 135
Toluene-d8	97	97		91	96		96	70 - 135
p-Bromofluorobenzene	115	114		105	99		108	70 - 135

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

247249

Page 1 of 1

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	

Analysis Requested

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1			12/09		AIR	TEDLAR	NONE				
2											
3	MW-3		12/24/09	1530	W	3 VOA	HCl	X		X	
4	MW-5			1540							
5	MW-8			1550							
6	MW-4			1605							
7	MW-7			1610							
8											
9											
10											
11											
12											
13											
14											
15											

EDF
TO 600143649
AIR=PPMV

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	Relinquished by Sampler: 1.	Relinquished by 2.	Relinquished by 3.
Signature:	[signature]		
Printed Name:			
Date / Time:	12/31/09 1140		
Received By:	**1.**	**2.**	**3.**
Signature:	[signature]		
Printed Name:			
Date / Time:	12-31-09 1140		

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247420
REPORTED 01/12/2010
RECEIVED 01/06/2010

PROJECT EAGLE GAS STATION
OAKLAND, CA

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1048369	D-11
1048370	D-7
1048371	MW-8
1048372	IS-3
1048375	TOTAL INLET
1048376	D-1
1048377	D-2
1048378	D-3
1048379	D-4
1048380	EW-1
1048381	D-5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247420
REPORTED 01/12/2010
RECEIVED 01/06/2010

PROJECT EAGLE GAS STATION
OAKLAND, CA

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1048382	D-7
1048383	D-10
1048384	D-11
1048385	D-12
1048386	TOTAL INLET

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1048369
Matrix: AIR
Date Sampled: 01/04/2010
Time Sampled: 10:00
Sampled By:

Client: Calclean
Client Sample ID: D-11

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	13	50	0.5	Vppm	01/07/10	SW
Ethyl benzene	11	50	0.5	Vppm	01/07/10	SW
Methyl t - butyl ether	461	100	10.0	Vppm	01/07/10	SW
Toluene	32	50	0.5	Vppm	01/07/10	SW
Xylene (total)	25	50	1.5	Vppm	01/07/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	2220	50	250.0	Vppm	01/07/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048370 **Client:** Calclean

Matrix: AIR **Client Sample ID:** D-7

Date Sampled: 01/04/2010

Time Sampled: 10:10

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	13	50	0.5	Vppm	01/07/10	SW
Ethyl benzene	25	50	0.5	Vppm	01/07/10	SW
Methyl t - butyl ether	161	50	5.0	Vppm	01/07/10	SW
Toluene	43	50	0.5	Vppm	01/07/10	SW
Xylene (total)	51	50	1.5	Vppm	01/07/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	2630	50	250.0	Vppm	01/07/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048371 **Client:** Calclean

Matrix: AIR **Client Sample ID:** MW-8

Date Sampled: 01/04/2010

Time Sampled: 11:00

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	14	50	0.5	Vppm	01/07/10	SW
Ethyl benzene	6.5	50	0.5	Vppm	01/07/10	SW
Methyl t - butyl ether	238	50	5.0	Vppm	01/07/10	SW
Toluene	25	50	0.5	Vppm	01/07/10	SW
Xylene (total)	15	50	1.5	Vppm	01/07/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	2100	50	250.0	Vppm	01/07/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048372
Matrix: AIR
Date Sampled: 01/04/2010
Time Sampled: 13:00
Sampled By:

Client: Calclean
Client Sample ID: IS-3

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	34	25	0.25	Vppm	01/07/10	SW
Ethyl benzene	47	25	0.25	Vppm	01/07/10	SW
Methyl t - butyl ether	593	100	10.0	Vppm	01/07/10	SW
Toluene	92	25	0.25	Vppm	01/07/10	SW
Xylene (total)	60	25	0.75	Vppm	01/07/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	6380	25	125.0	Vppm	01/07/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048375 **Client:** Calclean

Matrix: AIR **Client Sample ID:** TOTAL INLET

Date Sampled: 01/01/2010

Time Sampled: 15:25

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	5.0	25	0.25	Vppm	01/07/10	SW
Ethyl benzene	9.2	25	0.25	Vppm	01/07/10	SW
Methyl t - butyl ether	54	25	2.5	Vppm	01/07/10	SW
Toluene	20	25	0.25	Vppm	01/07/10	SW
Xylene (total)	18	25	0.75	Vppm	01/07/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1110	25	125.0	Vppm	01/07/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048376
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 15:30
Sampled By:

Client: Calclean
Client Sample ID: D-1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	2.5	10	0.1	Vppm	01/08/10	SW
Ethyl benzene	3.2	10	0.1	Vppm	01/08/10	SW
Methyl t - butyl ether	26	10	1.0	Vppm	01/08/10	SW
Toluene	2.3	10	0.1	Vppm	01/08/10	SW
Xylene (total)	1.7	10	0.3	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	481	10	50.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048377
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 15:35
Sampled By:

Client: Calclean
Client Sample ID: D-2

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	1.6	10	0.1	Vppm	01/08/10	SW
Ethyl benzene	4.3	10	0.1	Vppm	01/08/10	SW
Methyl t - butyl ether	21	10	1.0	Vppm	01/08/10	SW
Toluene	2.7	10	0.1	Vppm	01/08/10	SW
Xylene (total)	1.4	10	0.3	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	502	10	50.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048378 **Client:** Calclean

Matrix: AIR **Client Sample ID:** D-3

Date Sampled: 01/01/2010

Time Sampled: 15:40

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	12	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	16	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	160	50	5.0	Vppm	01/08/10	SW
Toluene	6.3	25	0.25	Vppm	01/08/10	SW
Xylene (total)	28	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1790	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048379
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 15:45
Sampled By:

Client: Calclean
Client Sample ID: D-4

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	6.8	10	0.1	Vppm	01/08/10	SW
Ethyl benzene	12	10	0.1	Vppm	01/08/10	SW
Methyl t - butyl ether	48	10	1.0	Vppm	01/08/10	SW
Toluene	20	10	0.1	Vppm	01/08/10	SW
Xylene (total)	1.4	10	0.3	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1420	10	50.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048380
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 15:50
Sampled By:

Client: Calclean
Client Sample ID: EW-1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	2.9	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	7.6	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	48	25	2.5	Vppm	01/08/10	SW
Toluene	17	25	0.25	Vppm	01/08/10	SW
Xylene (total)	19	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1080	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048381
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 15:55
Sampled By:

Client: Calclean
Client Sample ID: D-5

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	3.1	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	5.6	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	65	25	2.5	Vppm	01/08/10	SW
Toluene	2.6	25	0.25	Vppm	01/08/10	SW
Xylene (total)	13	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	695	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048382
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 16:40
Sampled By:

Client: Calclean
Client Sample ID: D-7

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	4.6	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	9.6	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	84	25	2.5	Vppm	01/08/10	SW
Toluene	17	25	0.25	Vppm	01/08/10	SW
Xylene (total)	25	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1040	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048383
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 16:45
Sampled By:

Client: Calclean
Client Sample ID: D-10

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	11	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	7.4	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	528	100	10.0	Vppm	01/08/10	SW
Toluene	46	25	0.25	Vppm	01/08/10	SW
Xylene (total)	16	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1840	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048384
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 16:50
Sampled By:

Client: Calclean
Client Sample ID: D-11

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	4.2	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	4.4	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	235	50	5.0	Vppm	01/08/10	SW
Toluene	20	25	0.25	Vppm	01/08/10	SW
Xylene (total)	7.3	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	824	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048385
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 16:55
Sampled By:

Client: Calclean
Client Sample ID: D-12

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	47	25	0.25	Vppm	01/08/10	SW
Ethyl benzene	76	25	0.25	Vppm	01/08/10	SW
Methyl t - butyl ether	543	125	12.5	Vppm	01/08/10	SW
Toluene	247	125	1.25	Vppm	01/08/10	SW
Xylene (total)	112	25	0.75	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	5930	25	125.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048386
Matrix: AIR
Date Sampled: 01/01/2010
Time Sampled: 17:00
Sampled By:

Client: Calclean
Client Sample ID: TOTAL INLET

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	10	10	0.1	Vppm	01/08/10	SW
Ethyl benzene	24	10	0.1	Vppm	01/08/10	SW
Methyl t - butyl ether	209	50	5.0	Vppm	01/08/10	SW
Toluene	60	50	0.5	Vppm	01/08/10	SW
Xylene (total)	42	10	0.3	Vppm	01/08/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	1640	10	50.0	Vppm	01/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: 247422-387

Matrix: AIR

Prep. Date : January 7, 2010

Analysis Date: January 7, 2010

Lab ID#'s in Batch: 247422, 247423, 247403, 247443, 247444, 247445, 247446, 247420, 247498

REPORTING UNITS = Vppm

SAMPLE DUPLICATE RESULT

Test	Method	Sample Result	Sample Duplicate	%RPD
Gas	8015M	874.70	886.83	1
Benzene	8021B	2.77	2.82	2
Toluene	8021B	16.90	17.30	2
Ethylbenzene	8021B	3.25	3.26	0
Xylenes	8021B	17.85	17.98	1

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: 247420-386

Matrix: AIR

Prep. Date : January 8, 2010

Analysis Date: January 8, 2010

Lab ID#'s in Batch: 247420, 247493, 247497, 247512, 247513, 247499

REPORTING UNITS = Vppm

SAMPLE DUPLICATE RESULT

Test	Method	Sample Result	Sample Duplicate	%RPD
Gas	8015M	1,639.58	1,581.44	4
Benzene	8021B	9.98	9.73	3
Toluene	8021B	57.57	54.92	5
Ethylbenzene	8021B	23.73	23.40	1
Xylenes	8021B	42.59	41.94	2

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	247420

Page 1 of 2

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1	D-11		1/4/09	1000	AIR	TEDLAR	NONE	X	X		
2	D-7			1010							
3	MW-8			1100							
4	IS-3			1300							
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Analysis Requested

EDF
TO 6001436 49
AIR=PPMV

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:		Relinquished by	Relinquished by
Signature:	Noel Shenoi	Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:	1/6/09 Time: 1522	Date: Time:	Date: Time:
Received By:	1.	Received By: 2.	Received By: 3.
Signature:		Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:	01/06/10 Time: 1522	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

247420

Page 1 of 2

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1	TOTAL INLET		1/1/00	1525	AIR	TEDLAR	NONE	X	X		
2	D-1			1530							
3	D-2			1535							
4	D-3			1540							
5	D-4			1545							
6	EW-1			1550							
7	D-5			1555							
8	D-7			1640							
9	D-10			1645							
10	D-11			1650							
11	D-12			1655							
12	TOTAL INLET			1700							EDF T0600143649 AIR=PPMV
13											
14											
15											

Analysis Requested

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:			
Signature:	Noel Shenoi		
Printed Name:			
Date:	1/6/00 Time: 1522	Date: Time:	Date: Time:
Received By:			
Signature:	M. Eckert		
Printed Name:			
Date:	01-06-00 Time: 1522	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247427
REPORTED 01/12/2010
RECEIVED 01/06/2010

PROJECT Eagle Gas Station

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1048419	IS-4
1048420	IS-5
1048421	MW-3
1048422	IS-1
1048423	MW-8
1048424	MW-5
1048425	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1048419
Matrix: WATER
Date Sampled: 01/01/2010
Time Sampled: 15:00
Sampled By:

Client: Calclean
Client Sample ID: IS-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	119	100	100.0	ug/L	01/08/10 RP
Ethyl benzene	ND	100	500.0	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	812	100	100.0	ug/L	01/08/10 RP
Toluene	ND	100	500.0	ug/L	01/08/10 RP
Xylenes, total	ND	100	500.0	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	ND	100	100.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	100	100.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	ND	100	100.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	167000	100	1000.0	ug/L	01/08/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	95			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	122			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
8015B - Gasoline					
Gasoline	4320	10	500.0	ug/L	01/08/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	116			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048420
Matrix: WATER
Date Sampled: 01/01/2010
Time Sampled: 14:55
Sampled By:

Client: Calclean
Client Sample ID: IS-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	4600	100	100.0	ug/L	01/08/10 RP
Ethyl benzene	7300	100	500.0	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	30400	1000	1000.0	ug/L	01/08/10 RP
Toluene	ND	100	500.0	ug/L	01/08/10 RP
Xylenes, total	7400	100	500.0	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	ND	100	100.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	100	100.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	1050	100	100.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	241000	1000	10000.0	ug/L	01/08/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	104			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 135
Surr3 - Toluene-d8	101			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
8015B - Gasoline					
Gasoline	56700	200	10000.0	ug/L	01/08/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	100			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048421
Matrix: WATER
Date Sampled: 01/01/2010
Time Sampled: 15:00
Sampled By:

Client: Calclean
Client Sample ID: MW-3

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	10	10.0	ug/L	01/08/10 RP
Ethyl benzene	ND	10	50.0	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	820	10	10.0	ug/L	01/08/10 RP
Toluene	ND	10	50.0	ug/L	01/08/10 RP
Xylenes, total	ND	10	50.0	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	19	10	10.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	10	10.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	ND	10	10.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	32600	100	1000.0	ug/L	01/08/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	93			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	119			%	70 - 135
Surr3 - Toluene-d8	106			%	70 - 135
Surr4 - p-Bromofluorobenzene	103			%	70 - 135
8015B - Gasoline					
Gasoline	822	10	500.0	ug/L	01/07/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	106			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048422
Matrix: WATER
Date Sampled: 01/01/2010
Time Sampled: 15:05
Sampled By:

Client: Calclean
Client Sample ID: IS-1

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1	1	ug/L	01/08/10 RP
Ethyl benzene	ND	1	5	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	153	1	1	ug/L	01/08/10 RP
Toluene	ND	1	5	ug/L	01/08/10 RP
Xylenes, total	ND	1	5	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	ND	1	1.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	7790	10	100.0	ug/L	01/08/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	95			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	118			%	70 - 135
Surr3 - Toluene-d8	105			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
8015B - Gasoline					
Gasoline	360	1	50	ug/L	01/08/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	104			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048423 **Client:** Calclean

Matrix: WATER **Client Sample ID:** MW-8

Date Sampled: 01/01/2010

Time Sampled: 15:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	1370	25	25.0	ug/L	01/08/10 RP
Ethyl benzene	ND	25	125.0	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	53500	1000	1000.0	ug/L	01/09/10 RP
Toluene	ND	25	125.0	ug/L	01/08/10 RP
Xylenes, total	251	25	125.0	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	ND	25	25.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	25	25.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	379	25	25.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	305000	1000	10000.0	ug/L	01/09/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	98			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
8015B - Gasoline					
Gasoline	52100	400	20000.0	ug/L	01/08/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	103			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048424
Matrix: WATER
Date Sampled: 01/01/2010
Time Sampled: 15:15
Sampled By:

Client: Calclean
Client Sample ID: MW-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	100	100.0	ug/L	01/08/10 RP
Ethyl benzene	ND	100	500.0	ug/L	01/08/10 RP
Methyl-tert-butylether (MTBE)	3270	100	100.0	ug/L	01/08/10 RP
Toluene	ND	100	500.0	ug/L	01/08/10 RP
Xylenes, total	ND	100	500.0	ug/L	01/08/10 RP
Di-isopropyl ether (DIPE)	ND	100	100.0	ug/L	01/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	100	100.0	ug/L	01/08/10 RP
Tert-amylmethylether (TAME)	ND	100	100.0	ug/L	01/08/10 RP
Tertiary butyl alcohol (TBA)	414000	1000	10000.0	ug/L	01/09/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	96			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	121			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	100			%	70 - 135
8015B - Gasoline					
Gasoline	2450	20	1000.0	ug/L	01/07/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	105			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1048425
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Calclean
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1	1	ug/L	01/07/10 RP
Ethyl benzene	ND	1	5	ug/L	01/07/10 RP
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	01/07/10 RP
Toluene	ND	1	5	ug/L	01/07/10 RP
Xylenes, total	ND	1	5	ug/L	01/07/10 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	01/07/10 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	01/07/10 RP
Tert-amylmethylether (TAME)	ND	1	1.0	ug/L	01/07/10 RP
Tertiary butyl alcohol (TBA)	ND	1	10	ug/L	01/07/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	119			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	105			%	70 - 135
Surr3 - Toluene-d8	91			%	70 - 135
Surr4 - p-Bromofluorobenzene	93			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1	50	ug/L	01/07/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	103			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: January 7, 2010

Analysis Date 1/7/10-1/8/10

Lab ID#'s in Batch: 247356 , 247427 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	459	449	92	90	2

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	103
LCS	105
LCSD	107

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES

LCS REPORT FORM

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: January 8, 2010

Analysis Date 1/8/10-1/9/10

Lab ID#'s in Batch: 247425 , 247427 , 247578 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	419	423	84	85	1

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	91
LCS	105
LCSD	104

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: *MS/MSD Water Sample* 247547-841
Date Prepared: January 8, 2010
Date Analyzed: 1/8-1/9/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247462, 245942, 247361, 247547, 247355, 247427, 247303, 247425

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	52.00	50.30	104	101	3	22	59 - 172
MTBE	0.00	50.0	48.60	48.30	97	97	1	24	62 - 137
Benzene	0.00	50.0	47.80	46.60	96	93	3	24	62 - 137
Trichloroethene	0.00	50.0	49.90	46.10	100	92	8	21	66 - 142
Toluene	0.00	50.0	48.80	47.70	98	95	2	21	59 - 139
Chlorobenzene	0.00	50.0	47.30	46.50	95	93	2	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	49.60	99	59 - 172
MTBE	50.0	51.60	103	62 - 137
Benzene	50.0	47.10	94	62 - 137
Trichloroethene	50.0	50.10	100	66 - 142
Toluene	50.0	48.80	98	59 - 139
Chlorobenzene	50.0	48.00	96	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	93	95		105	107		106	70 - 135
1,2-Dichloroethane-d4	121	122		105	108		107	70 - 135
Toluene-d8	101	100		100	97		99	70 - 135
p-Bromofluorobenzene	100	105		99	98		99	70 - 135

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: *MS/MSD Water Sample* 247495-649
Date Prepared: January 7, 2010
Date Analyzed: 1/7-1/8/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247404, 247265, 247316, 247303, 245942, 247406, 247405, 247495, 247427

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	51.90	50.10	104	100	4	22	59 - 172
MTBE	0.00	50.0	51.00	50.40	102	101	1	24	62 - 137
Benzene	0.00	50.0	49.80	48.30	100	97	3	24	62 - 137
Trichloroethene	0.00	50.0	51.50	49.10	103	98	5	21	66 - 142
Toluene	0.00	50.0	50.90	49.10	102	98	4	21	59 - 139
Chlorobenzene	0.00	50.0	50.00	48.00	100	96	4	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	49.90	100	59 - 172
MTBE	50.0	46.60	93	62 - 137
Benzene	50.0	46.90	94	62 - 137
Trichloroethene	50.0	46.80	94	66 - 142
Toluene	50.0	48.80	98	59 - 139
Chlorobenzene	50.0	47.90	96	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	91	119		107	104		104	70 - 135
1,2-Dichloroethane-d4	114	105		110	103		103	70 - 135
Toluene-d8	102	91		102	99		100	70 - 135
p-Bromofluorobenzene	102	93		100	97		102	70 - 135

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

A.L. Job No. 247427

Page 1 of 1

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780
Phone	(714) 734-9137
Project Manager	NOEL SHENOI
Fax	(714) 734-9138
Project Name	EAGLE GAS STATION
Project #	
Site Name and Address	OAKLAND, CA

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	Analysis Requested: TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1			~~TAT~~		ATR	TEDLAR	NONE				
2	IS-4		1/1/10	1500	W	2 VOA	HCl	X		X	
3	IS-5			1455		3 VOA					
4	MW-3			1500							
5	IS-1			1505							
6	MW-8			1520							
7	MW-5			1515							EDF T0600143649 ATR=~~PPMV~~
8											
9											
10											
11											
12											
13											
14											
15											

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers		Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:			
Signature:	Noel Shenoi		
Printed Name:			
Date:	1/6/10 Time: 1527	Time:	Time:
Received By:	1.	2.	3.
Signature:			
Printed Name:			
Date:	1-6-10 Time: 1527	Time:	Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247637
REPORTED 01/13/2010
RECEIVED 01/11/2010

PROJECT EAGLE GAS STATION
OAKLAND, CA

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1049143	TOTAL INLET
1049144	D-11

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1049143
Matrix: AIR
Date Sampled: 01/10/2010
Time Sampled: 15:10
Sampled By:

Client: Calclean
Client Sample ID: TOTAL INLET

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	3.5	10	0.1	Vppm	01/12/10	SW
Ethyl benzene	12	10	0.1	Vppm	01/12/10	SW
Methyl t - butyl ether	76	25	2.5	Vppm	01/12/10	SW
Toluene	37	10	0.1	Vppm	01/12/10	SW
Xylene (total)	29	10	0.3	Vppm	01/12/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	803	10	50.0	Vppm	01/12/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1049144 **Client:** Calclean

Matrix: AIR **Client Sample ID:** D-11

Date Sampled: 01/10/2010

Time Sampled: 15:40

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	2.8	10	0.1	Vppm	01/12/10	SW
Ethyl benzene	6.2	10	0.1	Vppm	01/12/10	SW
Methyl t - butyl ether	111	50	5.0	Vppm	01/12/10	SW
Toluene	14	10	0.1	Vppm	01/12/10	SW
Xylene (total)	15	10	0.3	Vppm	01/12/10	SW
8015B - Gasoline in Air - (Vppm & ug/L)						
Gasoline	397	10	50.0	Vppm	01/12/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

247637 Page 1 of 1

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780	Phone	(714) 734-9137
Project Manager	NOEL SHENOI	Fax	(714) 734-9138
Project Name	EAGLE GAS STATION	Project #	
Site Name and Address	OAKLAND, CA	A.L. Job No.	

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1	TOTAL INLET		1/10/10	1510	AIR	TEDLAR	NONE	X	X		
2	D-11		"	1540	"	"	"	X	X		
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

4 DAY TAT FOR PDF REPORT + INVOICE

Analysis Requested

EDF
TO #GD0143649
AIR=PPMV

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	2	Properly Cooled Y / N / NA	
Custody Seals Y / N / NA		Samples Intact Y / N / NA	
Received in Good Condition Y / N		Samples Accepted Y / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:			
Signature:	Noel Shenoi		
Printed Name:			
Date:	1/11/10 Time:	Date: Time:	Date: Time:
Received By:	ASL		
Signature:			
Printed Name:	Juan Montano		
Date:	1-11-10 Time: 12:45	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Calclean (9977)
ATTN: Noel Shenoi
3002 Dow Ave.
#142
Tustin, CA 92780

LAB REQUEST 247641
REPORTED 01/18/2010
RECEIVED 01/11/2010

PROJECT Eagle Gas Station
Oakland, CA

SUBMITTER Client

COMMENTS Global ID: T0600143649

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
1049158	MW-8
1049159	IS-1
1049160	IS-4
1049161	IS-5
1049162	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1049158
Matrix: WATER
Date Sampled: 01/10/2010
Time Sampled: 16:00
Sampled By:

Client: Calclean
Client Sample ID: MW-8

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1000	1000.0	ug/L	01/12/10 RP
Ethyl benzene	ND	1000	5000.0	ug/L	01/12/10 RP
Methyl-tert-butylether (MTBE)	7660	1000	1000.0	ug/L	01/12/10 RP
Toluene	ND	1000	5000.0	ug/L	01/12/10 RP
Xylenes, total	ND	1000	5000.0	ug/L	01/12/10 RP
Di-isopropyl ether (DIPE)	ND	1000	1000.0	ug/L	01/12/10 RP
Ethyl-tertbutylether (ETBE)	ND	1000	1000.0	ug/L	01/12/10 RP
Tert-amylmethylether (TAME)	ND	1000	1000.0	ug/L	01/12/10 RP
Tertiary butyl alcohol (TBA)	162000	1000	10000.0	ug/L	01/12/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	105			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 135
Surr3 - Toluene-d8	101			%	70 - 135
Surr4 - p-Bromofluorobenzene	112			%	70 - 135
8015B - Gasoline					
Gasoline	4990	50	2500.0	ug/L	01/12/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	88			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1049159
Matrix: WATER
Date Sampled: 01/10/2010
Time Sampled: 16:05
Sampled By:

Client: Calclean
Client Sample ID: IS-1

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	12	10	10.0	ug/L	01/12/10 RP
Ethyl benzene	ND	10	50.0	ug/L	01/12/10 RP
Methyl-tert-butylether (MTBE)	249	10	10.0	ug/L	01/12/10 RP
Toluene	ND	10	50.0	ug/L	01/12/10 RP
Xylenes, total	ND	10	50.0	ug/L	01/12/10 RP
Di-isopropyl ether (DIPE)	ND	10	10.0	ug/L	01/12/10 RP
Ethyl-tertbutylether (ETBE)	ND	10	10.0	ug/L	01/12/10 RP
Tert-amylmethylether (TAME)	ND	10	10.0	ug/L	01/12/10 RP
Tertiary butyl alcohol (TBA)	27100	100	1000.0	ug/L	01/14/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	105			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135
Surr3 - Toluene-d8	95			%	70 - 135
Surr4 - p-Bromofluorobenzene	108			%	70 - 135
8015B - Gasoline					
Gasoline	433	5	250.0	ug/L	01/13/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	104			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1049160
Matrix: WATER
Date Sampled: 01/10/2010
Time Sampled: 16:10
Sampled By:

Client: Calclean
Client Sample ID: IS-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	200	200.0	ug/L	01/12/10 RP
Ethyl benzene	ND	200	1000.0	ug/L	01/12/10 RP
Methyl-tert-butylether (MTBE)	697	200	200.0	ug/L	01/12/10 RP
Toluene	ND	200	1000.0	ug/L	01/12/10 RP
Xylenes, total	ND	200	1000.0	ug/L	01/12/10 RP
Di-isopropyl ether (DIPE)	ND	200	200.0	ug/L	01/12/10 RP
Ethyl-tertbutylether (ETBE)	ND	200	200.0	ug/L	01/12/10 RP
Tert-amylmethylether (TAME)	ND	200	200.0	ug/L	01/12/10 RP
Tertiary butyl alcohol (TBA)	153000	200	2000.0	ug/L	01/12/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	102			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	109			%	70 - 135
8015B - Gasoline					
Gasoline	3990	10	500.0	ug/L	01/12/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	102			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1049161
Matrix: WATER
Date Sampled: 01/10/2010
Time Sampled: 16:15
Sampled By:

Client: Calclean
Client Sample ID: IS-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	1450	100	100.0	ug/L	01/14/10 RP
Ethyl benzene	3880	100	500.0	ug/L	01/14/10 RP
Methyl-tert-butylether (MTBE)	4490	100	100.0	ug/L	01/14/10 RP
Toluene	ND	100	500.0	ug/L	01/14/10 RP
Xylenes, total	3890	100	500.0	ug/L	01/14/10 RP
Di-isopropyl ether (DIPE)	ND	100	100.0	ug/L	01/14/10 RP
Ethyl-tertbutylether (ETBE)	ND	100	100.0	ug/L	01/14/10 RP
Tert-amylmethylether (TAME)	168	100	100.0	ug/L	01/14/10 RP
Tertiary butyl alcohol (TBA)	158000	100	1000.0	ug/L	01/14/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	110			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	110			%	70 - 135
Surr3 - Toluene-d8	101			%	70 - 135
Surr4 - p-Bromofluorobenzene	112			%	70 - 135
8015B - Gasoline					
Gasoline	33300	50	2500.0	ug/L	01/12/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	106			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 1049162
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Calclean
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1	1	ug/L	01/12/10 RP
Ethyl benzene	ND	1	5	ug/L	01/12/10 RP
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	01/12/10 RP
Toluene	ND	1	5	ug/L	01/12/10 RP
Xylenes, total	ND	1	5	ug/L	01/12/10 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	ug/L	01/12/10 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	ug/L	01/12/10 RP
Tert-amylmethylether (TAME)	ND	1	1.0	ug/L	01/12/10 RP
Tertiary butyl alcohol (TBA)	ND	1	10	ug/L	01/12/10 RP
Surrogates				**Units**	**Control Limits**
Surr1 - Dibromofluoromethane	98			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135
Surr3 - Toluene-d8	102			%	70 - 135
Surr4 - p-Bromofluorobenzene	114			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1	50	ug/L	01/12/10 LT
Surrogates				**Units**	**Control Limits**
p-Bromofluorobenzene (Sur)	92			%	60 - 140

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: January 12, 2010

Analysis Date 1/12/10-1/13/10

Lab ID#'s in Batch: 247603 , 247641 , 247642 , 247652 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	403	426	81	85	6

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	92
LCS	107
LCSD	109

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: January 12, 2010

Analysis Date 1/12/10-1/13/10

Lab ID#'s in Batch: 247603 , 247641 , 247642 , 247652 .

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	403	426	81	85	6

ND = Not Detected
LCS Result = Lab Control Sample Result
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	92
LCS	107
LCSD	109

BFB = p-Bromofluorobenzene

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample* 247642-163
Date Prepared: January 12, 2010
Date Analyzed: 1/12-1/13/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247642, 247608, 247589, 247641, 247676

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	49.50	51.90	99	104	5	22	59 - 172
MTBE	0.00	50.0	48.70	55.40	97	111	13	24	62 - 137
Benzene	0.00	50.0	48.10	52.20	96	104	8	24	62 - 137
Trichloroethene	0.00	50.0	46.10	44.90	92	90	3	21	66 - 142
Toluene	0.00	50.0	48.60	48.90	97	98	1	21	59 - 139
Chlorobenzene	0.00	50.0	46.30	47.90	93	96	3	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	47.40	95	59 - 172
MTBE	50.0	51.70	103	62 - 137
Benzene	50.0	49.80	100	62 - 137
Trichloroethene	50.0	40.60	81	66 - 142
Toluene	50.0	45.30	91	59 - 139
Chlorobenzene	50.0	44.20	88	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	98	102		100	105		101	70 - 135
1,2-Dichloroethane-d4	104	108		103	103		103	70 - 135
Toluene-d8	102	101		99	93		94	70 - 135
p-Bromofluorobenzene	114	102		107	107		112	70 - 135

ASSOCIATED LABORATORIES

QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample* 247714-495
Date Prepared: January 13, 2010
Date Analyzed: 1/13-1/14/10
Sample Matrix: Water
Units: µg/L

Lab ID#'s in Batch: 247714, 247641, 247715

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	50.60	51.30	101	103	1	22	59 - 172
MTBE	0.00	50.0	51.30	53.30	103	107	4	24	62 - 137
Benzene	0.00	50.0	51.40	55.70	103	111	8	24	62 - 137
Trichloroethene	0.00	50.0	47.40	41.60	95	83	13	21	66 - 142
Toluene	0.00	50.0	49.20	46.40	98	93	6	21	59 - 139
Chlorobenzene	0.00	50.0	47.60	45.80	95	92	4	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	46.40	93	59 - 172
MTBE	50.0	46.60	93	62 - 137
Benzene	50.0	45.20	90	62 - 137
Trichloroethene	50.0	44.70	89	66 - 142
Toluene	50.0	49.00	98	59 - 139
Chlorobenzene	50.0	47.20	94	60 - 133

*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec		MS % Rec	MSD % Rec		LCS % Rec	Limits % Rec
Dibromofluoromethane	105	109		104	108		95	70 - 135
1,2-Dichloroethane-d4	105	109		104	106		91	70 - 135
Toluene-d8	98	105		100	91		98	70 - 135
p-Bromofluorobenzene	112	109		106	103		102	70 - 135

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

A.L. Job No. 247641 Page 1 of 1

Company	CalClean Inc. 3002 Dow, #142 Tustin, CA 92780
Phone	(714) 734-9137
Project Manager	NOEL SHENOI
Fax	(714) 734-9138
Project Name	EAGLE GAS STATION
Project #	
Site Name and Address	OAKLAND, CA

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH-G (8015)	BTEX/MTBE (8021)	BTEX/OXYS (8260B)	Test Instructions & Comments
1			Cold		AIR	TEDLAR	NONE				
2											
3	MW-8		1/10/10	1600	W	3 VOA	HCl	X		X	
4	IS-1			1605							
5	IS-4			1610							
6	IS-5			1615							
7											
8											
9											
10											
11											
12											
13											
14											
15											

Analysis Requested

EDF
TO 600143649
AIR=PPMV

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	12	Properly Cooled (Y) / N / NA	
Custody Seals Y / N / (NA)		Samples Intact (Y) / N / NA	
Received in Good Condition (Y) / N		Samples Accepted (Y) / N	

Turn Around Time

☒ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:			
Signature:	Noel Shenoi		
Printed Name:			
Date:	1/11/10 Time:	Date: Time:	Date: Time:
Received By:	1. ASL	2.	3.
Signature:			
Printed Name:	Juan Montano		
Date:	1-11-10 Time: 12:49	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

APPENDIX E

Gmail

Jimmy Ho <jimho.ier@gmail.com>

Notice for Interim Remedial Action/Pilot Test for the Eagle Gas Station (4301 San Leandro St., Oakland,Case # RO096)

2 messages

Jimmy Ho <jimho.ier@gmail.com> **Tue, Dec 1, 2009 at 11:40 AM**
To: Jerry.Wickham@acgov.org

Hello Jerry:

I would like to let you know that the IRA/Pilot Test accepted in your October 2, 2009 letter is tentatively scheduled to begin on December 7, 2009, pending the discharge permit from the East Bay MUD.

I also would like to let you know that ERS has been terminated by Mr. Jamil. The termination letter is attached herein. A hard copy of the letter will be mailed tomorrow. I am with Innovative Environmental Remediation, Inc. Please use this e-mail address and address/phone number shown on the letter for our future correspondence. Thanks you so much for working with me on this site closure project.

Best regards,

Jim

Jamil letter to ERS.pdf
421K

Jimmy Ho <jimho.ier@gmail.com> **Tue, Dec 1, 2009 at 12:18 PM**
To: raheel400@hotmail.com, Thamilcat@yahoo.com

Hi Mr. Jamil, Shan:

I have informed Jerry of ACEH (see e-mail below) for the interim remedial action scheduled on December 7. It will last for 30 days. A slow period was selected based on Shan's suggestion. The owner of CalClean, the equipment contractor for the High Vacuum Dual Phase Extraction system, had met with me at the station in September to plan on the siting of the equipment so that business interference can be minimized.

I mailed you a contract that you requested last month when we met. Please sign and ask your daughter to sigh as well on both of them and mail one back to me. Please also sign a RR form for my future use. Thanks a lot.

Shan:

Could you please ask the gasoline suppliers to use a truck WITHOUT AN ATTACHED TRAILER to transport gasoline to the station between Dec. 7 through Jan. 7. This will greatly reduce the shut down of the equipment and maximize the system operation period. If you also can clearup the space by asking people staying away from the high vacuum system, that will be very helpful. If you have questions, please call me at my cell (925) 708-8387. We all like to get the site cleanup done as soon and as complete as possible. Thank you so much for your assitance and patience.

Best regards,

Jim

APPENDIX F

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

December 3, 2009

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. 7005 2570 0000 6629 6241

Mr. Noel Shenoi
CalClean Inc.
3002 Dow Ave, #142
Tustin, CA 92780

Dear Mr. Shenoi:

Re: Wastewater Discharge Permit No. 5058668 2
Discharge Location: 4301 San Leandro Street, Oakland, CA

Enclosed is the CalClean Inc. Special Discharge Permit (Permit), effective December 7, 2009 through December 6, 2010, for your information and records. Please read the Permit terms and conditions and the enclosed *Special Discharge Permit Standard Terms and Conditions*, June 2009 Edition. As a Permit Holder, you are legally responsible for complying with all Permit conditions and requirements.

CalClean Inc. shall report to the Environmental Services Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of the permitted discharge or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Molly Ong of the Environmental Services Division at (510) 287-1618.

Sincerely,

BENNETT K. HORENSTEIN
Manager of Environmental Services

BKH:MKO:mko

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Enclosures

RECEIVED

NOV 9 2009

ENVIRONMENTAL SVCS DIV

EBMUD

SPECIAL DISCHARGE PERMIT

PERMIT NUMBER 50586682

APPLICANT FORM

APPLICANT BUSINESS NAME	SIC CODE
CALCLEAN INC.	4950

ADDRESS OF SITE DISCHARGING WASTEWATER	APPLICANT MAILING ADDRESS
4301 SAN LEANDRO ST. (STREET ADDRESS)	3002 DOW AVE #142 (STREET ADDRESS)
OAKLAND, CA 94601 (CITY / ZIP CODE)	TUSTIN, CA 92780 (CITY / ZIP CODE)

CONTACT PERSONS

APPLICANT

NAME	TITLE	PHONE NUMBER
NOEL SHENOI	PRESIDENT	(714) 936-2706

CONSULTANT

NAME	TITLE	PHONE NUMBER
same		

CONTRACTOR

NAME	TITLE	PHONE NUMBER
same		

CERTIFICATION

I understand that issuance of a Special Discharge Permit does not exempt or preclude the facility from being issued a Discharge Minimization or Pollution Prevention Permit.

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Special Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME	TITLE
NOEL SHENOI	PRESIDENT

SIGNATURE (SEE CERTIFICATION REQUIREMENTS ON INSTRUCTIONS)	DATE
Noel Shenoi	11/5/09

SPECIAL DISCHARGE PERMIT

EBMUD PERMIT NUMBER 50586682 **APPLICANT FORM**

Purpose: This information demonstrates the wastewater meets established criteria for a Special Discharge Permit. Check each statement that applies and supply required information.

☑ *Reasonable and cost effective means of recycling and reuse of the wastewater are unavailable.* Provide information describing what means were considered, and why they were not implemented.
APROX 100-300 GPD WILL BE RECYCLED IN OUR PROCESS. THE BALANCE WILL BE TREATED AND DISCHARGED ONSITE

☑ *The wastewater is unsuitable for discharge to the storm sewer.* Provide explanation.
IT WOULD COST OVER $10,000 FOR AN NPDES PERMIT FOR A SMALL PROJECT.

☑ *The wastewater is generated only within the SD-1 wastewater service area.* Provide location.
4301 SAN LEANDRO ST, OAKLAND

☑ *The wastewater meets source criteria.* Describe the source and operations generating the wastewater. Include the Wastewater Source Category from Special Discharge Permit Standard Terms and Conditions, Section A, II.
WATER WILL BE GENERATED FROM GW EXTRATION DURING SITE REMEDIATION.

☑ *The wastewater is discharged during a limited period of time.*
Maximum Discharge Duration: 365 days Start Date: 12/3/09 Hours of Discharge: 24 HRS/DAY

☑ *Wastewater volume and flow will not exceed 100 gals/minute.*
MAX 10 GPM
Total Discharge Volume: UNKNOWN gallons

☑ *Discharge to the sanitary sewer during a rain even may be prohibited.* Describe containment capacity during a 10-year rain event (3.16 inches of rainfall in a 24-hour period).
TWO POLY TANKS WILL BE KEPT ONSITE FOR TEMP STORAGE

☑ *The side sewer through which the wastewater is discharged has been identified.* Applicant is responsible for obtaining local permits to use manholes or cleanouts for discharge.

✓ Attach a site diagram. Show facility location, property lines, wastewater source, drainage plumbing, the side sewer, and sampling location.

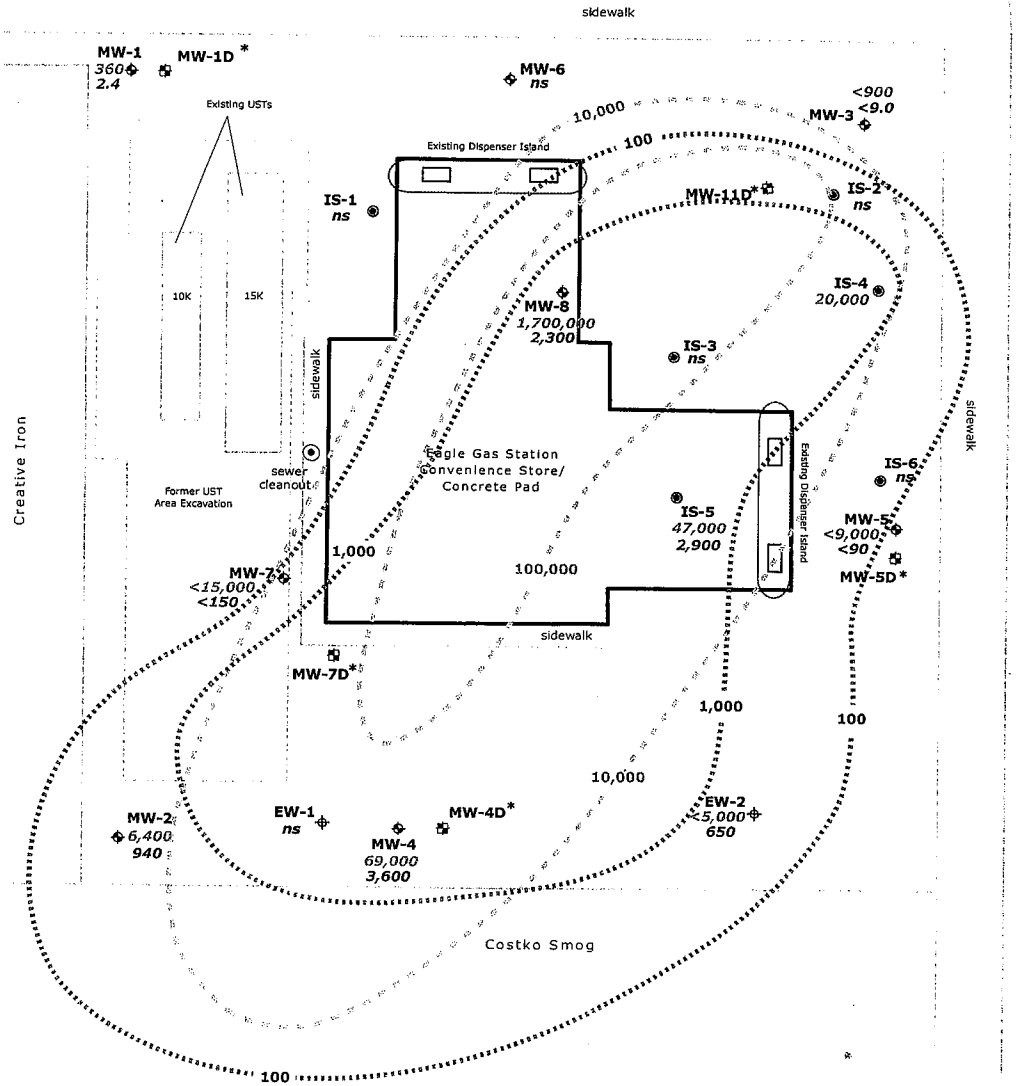
☑ *Known and potential pollutants present in the wastewater are characterized.*

✓ Attach a summarized list of all pollutant concentrations present in the wastewater. Also include the complete certified laboratory analytical report.

☑ *Treatment technology or best management practices have been identified that will result in the wastewater meeting discharge limits, and sediment or silt does not enter collection system.*

1) Describe pretreatment or best management practices that will be used to ensure the wastewater discharge complies with Ordinance No. 311A-03 wastewater discharge limits or permit-specific limits as necessary.
TWO 500-POUND CARBON VESSELS IN SERIES

✓ 2) Attach a schematic flow diagram of the pretreatment system. The diagram must accurately depict the pretreatment system as constructed. Field deviation from the diagram is not allowed, unless pretreatment system modifications are approved and the permit revised prior to the discharge.



Legend

- Extraction Well
- ISOC Well
- Monitor Well, Deep
- Monitor Well, Shallow
- Building Boundary
- *ns* not sampled
- * Deep Zone Well, result not shown
- *20,000* TPHg Concentration, Dec 2008 (ug/L)
- TPHg Concentration contour
- *15,000* Benzene Concentration, Dec 2008 (ug/L)
- Benzene Concentration contour

0 5 10 15 Feet

1 inch equals 15 feet

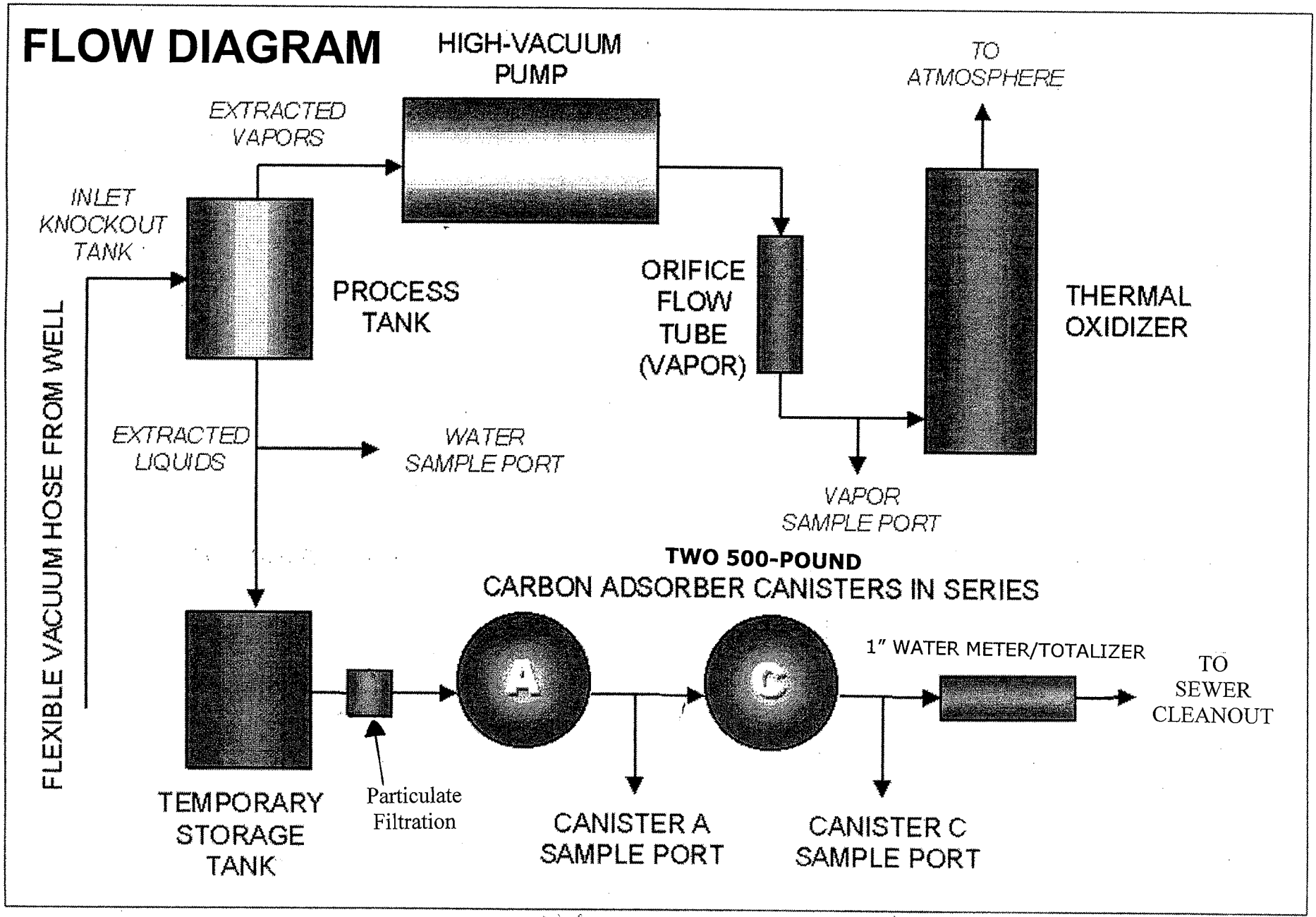
TPHg and Benzene Concentration Contours (December 8, 2008)

Eagle Gas Station, 4301 San Leandro Street, Oakland, CA

Figure 4

Environmental Risk Services Corporation

Cal Clean Inc
SOS#6682



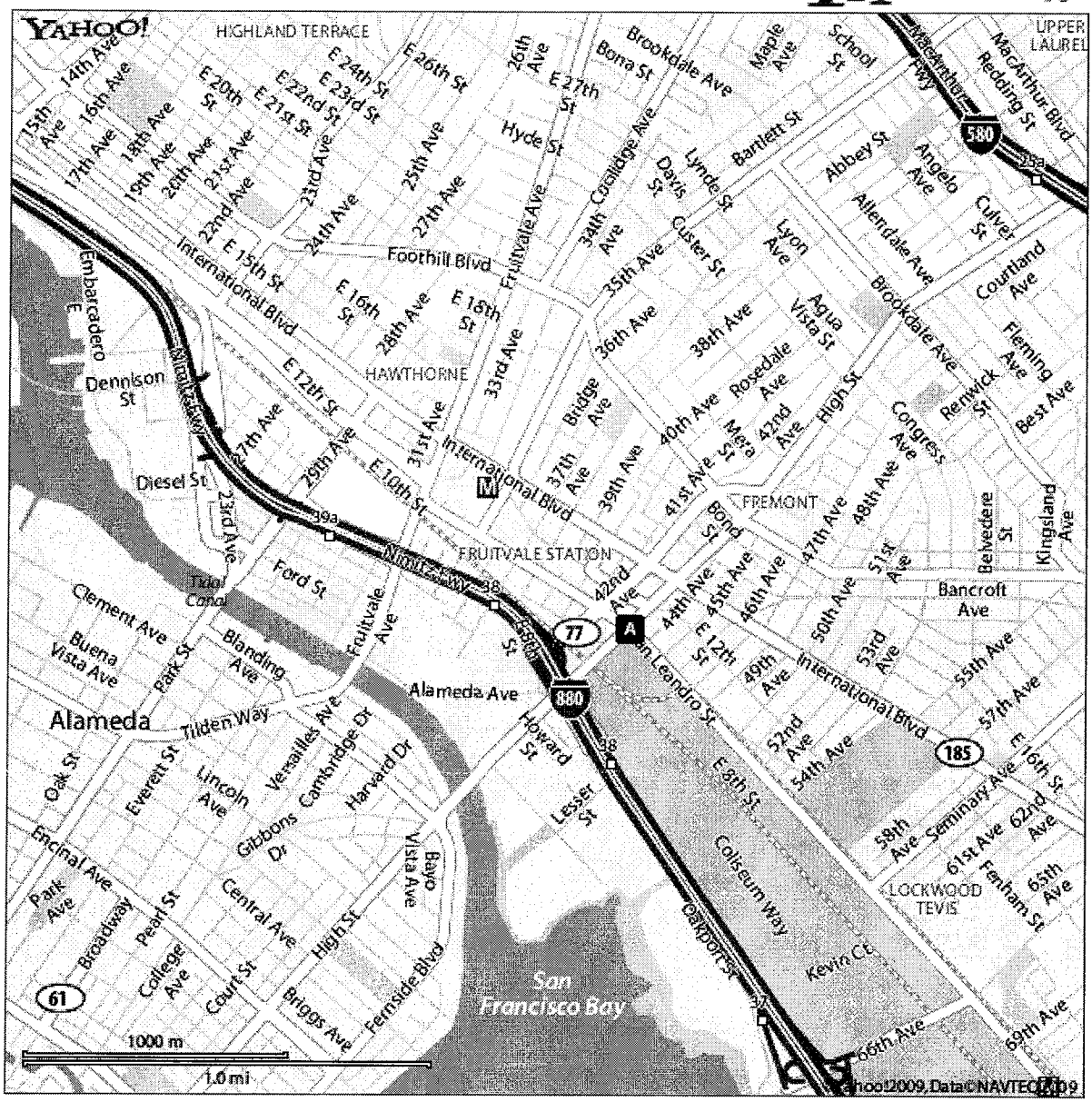
Cal Clean Inc.
Permit # SOS8968Z

GAC vessels, manifolded

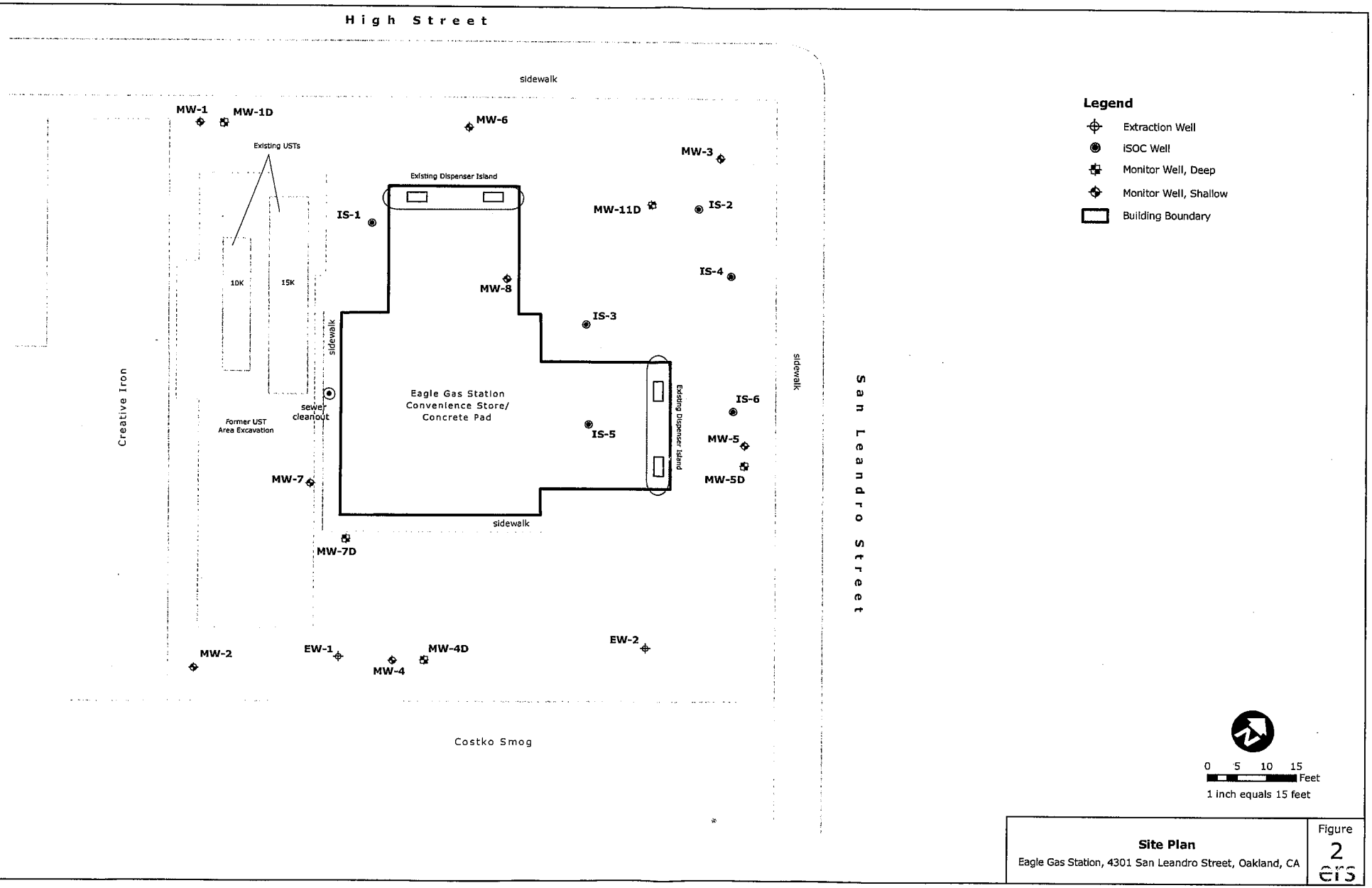
Cal Clean Inc.
5058682

Map of Eagle Gas (510) 536-8143

YAHOO!



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.



Site Plan
Eagle Gas Station, 4301 San Leandro Street, Oakland, CA

Figure 2

Environmental Risk Services Corporation

CalClean Inc.
5 0586682

EBMUD

PERMIT NUMBER: 5058668 2
CalClean Inc. 4301 San Leandro Street, Oakland

SPECIAL DISCHARGE PERMIT
Terms and Conditions

GENERAL CONDITIONS

I. CalClean Inc. shall comply with all items of the *EBMUD Special Discharge Permit Standard Terms and Conditions*, most recent edition.

II. CalClean Inc. shall discharge Special Discharge Wastewater only from the specific source described in the *Special Discharge Permit Terms & Conditions, Criteria and Fees* form. The discharge of all other wastewater must comply with *EBMUD Ordinance No. 311A-03.*

III. CalClean Inc. shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.

IV. CalClean Inc. shall comply with *EBMUD Ordinance No. 311A-03*, Title I, Section 5, which prohibits the discharge of storm water, drainage water, and groundwater to the community sewer.

☒ This Special Discharge Permit is considered a waiver of the prohibition.

V. CalClean Inc. shall comply with *EBMUD Ordinance No. 311A-03*, Title II, Section 2d, which prohibits discharge of wastewater directly into a manhole or other opening into the community sewer system.

☒ This Special Discharge Permit is considered a waiver of the prohibition.

VI. CalClean Inc. shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

VII. CalClean Inc. shall obtain permission from applicable city agencies to discharge Special Discharge Wastewater to the community sewer.

COMPLIANCE REQUIREMENTS

I. CalClean Inc. shall pretreat or manage all Special Discharge Wastewater prior to discharge to the community sewer. Pretreatment or management shall be sufficient to achieve compliance with the established Special Discharge Permit limits.

II. CalClean Inc. shall post a sign in the work area stating "All Wastewater Discharge must comply with the Special Discharge Permit."

III. CalClean Inc. shall not discharge wastewater to the community sewer within 24 hours of any storm event. A storm event is defined as "any precipitation heavier than a drizzle."

IV. CalClean Inc. shall not exceed a discharge flow rate of 100 gallons/minute.

REPORTING REQUIREMENTS

CalClean Inc. shall submit a technical report on a bimonthly basis throughout the entire discharge period. The report shall include:

- Bi-monthly Self-Monitoring sample data for Total Identifiable Chlorinated Hydrocarbon (Volatile Organics), EPA Method 624, or 8260B. Sample point is the effluent from the final carbon vessel, just prior to entering the sanitary sewer.
- A bimonthly meter reading, including the total volume of Special Discharge Wastewater discharged to the sanitary sewer during the two month reporting period. The report shall include if applicable the total volume of Special Discharge Wastewater discharged from onsite baker tanks to the sanitary sewer.
- The total volume of Special Discharge Wastewater discharged to the sanitary sewer to date.
- The authorized signature and certification statement.

The report is due bimonthly by the last day of the second month. The first report is **due February 8, 2010**. The report shall be submitted to EBMUD staff through United States Postal Service or facsimile at (510) 287-0621.

EBMUD

PERMIT NUMBER: 5058668 2
CalClean Inc. 4301 San Leandro Street, Oakland

SPECIAL DISCHARGE PERMIT
Terms and Conditions

WASTEWATER DISCHARGE LIMITS

CalClean Inc. shall not discharge Special Discharge Wastewater into the community sewer if the strength of the wastewater exceeds:

☒ EBMUD Ordinance No. 311A-03 Wastewater Discharge Limits

INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. CalClean Inc. shall grant District personnel access to the facility to conduct inspections and collect Special Discharge Wastewater samples.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit and *Special Discharge Permit Standard Terms and Conditions*, most recent edition, may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to $5,000 per day.

RATES AND CHARGES

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit.

CalClean Inc. shall be assessed the current wastewater treatment rate of $0.02 per gallon. The wastewater treatment charges shall be based on the volumes reported in the bimonthly technical reports. A Permit application fee of $945 shall also be assessed.

AUTHORIZATION

CalClean Inc. is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with EBMUD Ordinance No. 311A-03, Special Discharge Permit Terms and Conditions, and billing conditions.

Effective: December 7, 2009

Expiration: December 6, 2010

David R Williams
Director, Wastewater Department

12/9/09
Date

B2568

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

Plant# 12568 Page: 1 Expires: OCT 1, 2010

This document does not permit the holder to violate any District regulation or other law.

Noel Shenoi
Calclean Inc
3002 Dow Ave, Suite 142
Tustin, CA 92680

ORIGINAL SENT TO:

Calclean Inc
151 Southgate Avenue
Daly City, CA 94015

Location: 151 Southgate Avenue
Daly City, CA 94015

S#	DESCRIPTION	[Schedule]	PAID
1	CHEM> Contaminated soil remediation, Contaminated soil vapor Portable Vapor Extraction System Abated by: A1 Afterburner	[G1]	1008
2	CHEM> Contaminated soil remediation, Contaminated soil vapor Portable Vapor Extraction System Abated by: A2 Afterburner	[G1]	1008
3	CHEM> Contaminated soil remediation, Contaminated soil vapor Portable Soil Vapor Extraction System Abated by: A3 Furnace-Firebox	[G1]	1008

3 Permit Sources, 0 Exempt Sources

*** See attached Permit Conditions ***

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.

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PERMIT TO OPERATE

Plant# 12568 Page: 2 Expires: OCT 1, 2010

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*** PERMIT CONDITIONS ***

Source# 1	subject to Condition ID# 17354
Source# 2	subject to Condition ID# 19779
Source# 3	subject to Condition ID# 22646

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*** PERMIT CONDITIONS ***

==========

COND# 17354 *applies to S# 1*

Application 16676; Plant 12568: Source S-1, Portable Soil Vapor Extraction System

1. The operator of this source shall notify the District at least 3 days prior to start-up of operation at any new location. The notification shall include:
   a. Application Number (16676 & 1138) and Plant Number (12568)
   b. Street address, including zip code, for the location where the equipment will be operated.
   c. The name and telephone number of a contact person where the equipment will be operated.
   d. The date of initial start-up and estimated duration of operations at that location.
   e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Permit Services Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability. [Basis: Regulation 2-1-220.2]

3. This portable equipment, S-1, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.

4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school without specific authorization. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 may be met. These

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*** PERMIT CONDITIONS ***

notification requirements have been satisfied for operation at the 2499 Chestnut Street in Oakland, California 94607. [Basis: Regulation 2-1-220.4]

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below.

6. Precursor Organic Compound (POC) emissions from Source S-1 shall be abated by Abatement device A-1, Dual-mode oxidizer, during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm. [Basis: Regulation 8-47-301.1,2]

7. The POC abatement efficiency of abatement device A-1 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as hexane). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as hexane). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.40 pounds per year.

8. While operating as a thermal oxidizer, the minimum operating temperature of A-1 shall not be less than 1400 degrees Fahrenheit. While operating as a catalytic oxidizer, the minimum operating temperature of A-1 shall not be less than 600 degrees Fahrenheit.

9. To determine compliance with Condition Number 8, the dual-mode oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.

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*** PERMIT CONDITIONS ***

==========

10. To determine compliance with Condition 7, within 24 hours after start-up of the thermal/catalytic oxidizer at any new location, and within 24 hours of conversion from thermal to catalytic mode at an existing location, the operator of this source shall:
    a. Analyze the inlet gas to determine the vapor flow rate and concentration of POC present.
    b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
    c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7.
    d. Calculate the POC abatement efficiency based on The inlet and outlet gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
    e. Submit to the District's Permit Services Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.

11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division with a summary showing the following information: a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location. b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above. c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken. d. The total throughput of contaminated soil vapor processed by S-1 at that location (indicated in cubic feet). e. The total emissions of benzene at that location based on the sampling results required by conditions 10 above (indicated in pounds).

12. Within 30 days after the end of every calendar year, the

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*** PERMIT CONDITIONS ***

operator of this source shall provide the assigned Plant Engineer in the Permit Services Division a year end summary showing the following information: a. The location(s) at which the equipment was operated including the dates operated at each location. b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet). c. The total benzene emissions for the previous four quarters (indicated in pounds).
[Basis: Regulation 1-523]

13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded. [Basis: Regulation 1-523]

14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

COND# 19779 *applies to S# 2*

1. The operator of this source shall notify the District at least 3 days prior to start-up of operation at any new location. The notification shall include:

a. Street address, including zip code, for the location where the equipment will be operated.
b. The name and telephone number of a contact person where the equipment will be operated.
c. The date of initial start-up and estimated duration of operations at that location.
d. The distance from the source to the

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*** PERMIT CONDITIONS ***

outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Permit Services Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability.

3. This portable equipment, S-2, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.

4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 may be met.

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below.

6. Precursor Organic Compound (POC) emissions from Source S-2 shall be abated

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*** PERMIT CONDITIONS ***

by Abatement device A-2, Dual-mode oxidizer, during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm.

7. The POC abatement efficiency of abatement device A-2 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.70 pounds per year.

8. While operating as a thermal oxidizer, the minimum operating temperature of A-2 shall not be less than 1400 degrees Fahrenheit. While operating as a catalytic oxidizer, the minimum operating temperature of A-2 shall not be less than 600 degrees Farenheit.

9. To determine compliance with Condition Number 8, the dual-mode oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.

10. To determine compliance with Condition 7, within 24 hours after start-up of the thermal/catalytic oxidizer at any new

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*** PERMIT CONDITIONS ***

location, and within 24 hours of conversion from thermal to catalytic mode at an existing location, the operator of this source shall:

a. Analyze the inlet gas to determine the vapor flow rate and concentration of POC present.
b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7.
d. Calculate the POC abatement efficiency based on the inlet and outlet gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
e. Submit to the District's Permit Services Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.

11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division with a summary showing the following information:

a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment

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*** PERMIT CONDITIONS ***

was operated at that location.
b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above.
c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken.
d. The total throughput of contaminated soil vapor processed by S-2 at that location (indicated in cubic feet).
e. The total emissions of benzene at that location based on the sampling results required by conditions 10 above (indicated in pounds).

12. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division a year end summary showing the following information:

a. The location(s) at which the equipment was operated including the dates operated at each location.
b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet).
c. The total benzene emissions for the previous four quarters (indicated in pounds).

13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded.

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PERMIT TO OPERATE

*** PERMIT CONDITIONS ***

14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

COND# 22646 *applies to S# 3*

1. The operator of this source shall provide written notification to the Engineering Division at least 3 days prior to start-up of operation at any new location. The notification shall include:
   a. Application Number (13287 & 16470) and Plant Number (12568).
   b. Street address, including zip code, for the location where the equipment will be operated.
   c. The name and telephone number of a contact person where the equipment will be operated.
   d. The date of initial start-up and estimated duration of operations at that location.
   e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

   In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Engineering Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability. [basis: Reg. 2-1-220.2]

3. This portable equipment, S-3, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

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This document does not permit the holder to violate any District regulation or other law.

*** PERMIT CONDITIONS ***

4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school, unless the applicable requirements of the California Health and Safety Code Section 42301.6 have been met. This will require the submittal of an application for a revised permit to operate. These notification requirements have be satisfied for operation at 2500 Laurel Street in Napa, CA (94558). [basis: Reg. 2-1-220.4]

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below. [basis: Health Risk Management Policy]

6. Precursor Organic Compound (POC) emissions from S-3 shall be abated by abatement device A-3, thermal oxidizer during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm. [basis: Reg. 8-47-301.1,2]

7. The POC abatement efficiency of abatement device A-3 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.40 pounds per year. [basis: BACT; Health Risk Management Policy]

8. At no time shall the minimum operating temperature of A-3 be less than 1400 degrees Fahrenheit.

9. To determine compliance with Condition Number 8, the thermal oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
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(415) 771-6000

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for District inspection for a period of at least 2 years following the date on which such data are recorded.

10. To determine compliance with Condition 7, within 24 hours after start-up of the thermal oxidizer at any new location, the operator of this source shall:

    a. Analyze the inlet gas stream to determine the vapor flow rate and concentration of POC present.
    b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
    c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7.
    d. Calculate the POC abatement efficiency based on the inlet and exhaust gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
    e. Submit to the District's Engineering Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.

11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division with a summary showing the following information:
    a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location.
    b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above.
    c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken.
    d. The total throughput of contaminated soil vapor processed by S-3 at that location (indicated in

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*** PERMIT CONDITIONS ***

cubic feet).

e. The total emissions of benzene at that location based on the sampling results required by conditions 10 above. [basis: Reg. 1-523]

12. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division a year-end summary showing the following information:
    a. The location(s) at which the equipment was operated including the dates operated at each location.
    b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet).
    c. The total benzene emissions for the previous four quarters (indicated in pounds). [basis Reg. 1-523]

13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded. [basis Reg. 1-523]

14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

END OF CONDITIONS

S#	Source Description	Annual Average lbs/day PART	ORG	NOx	SO2	CO
1	Portable Vapor Extraction System	-	.08	-	-	-
2	Portable Vapor Extraction System	-	.15	-	-	-
3	Portable Soil Vapor Extraction System	-	.58	-	-	-
	T O T A L S		.81			

** PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT **

Pollutant Name	Emissions lbs/day
Benzene	.02

APPENDIX G

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

July 24, 2009

Ms. Farah Naz
c/o Mr. Muhammad Jamil
40092 Davis Street
Fremont, CA 94538

Subject: Fuel Leak Case No. RO0000096 and Geotracker Global ID T0600143649, Eagle Gas, 4301 San Leandro Street, Oakland, CA 94601 – Groundwater Monitoring Requirements

Dear Ms. Naz:

The purpose of this correspondence is to inform you of changes to groundwater monitoring requirements for all fuel leak cases in California. The California State Water Resources Control Board (State Water Board) has approved Resolution No. 2009-0042 (*Actions to Improve Administration of the UST Cleanup Fund and UST Cleanup Program*). Resolution No. 2009-0042 states that, "*Regional Water Board and LOP agencies shall reduce quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all site unless site-specific needs warrant otherwise and shall notify all responsible parties of the new requirements no later than August 1, 2009. If more than semiannual monitoring is required for a case, the responsible party and State Water board shall be notified of the rationale and the notice shall be posted on Geotracker.*"

Groundwater monitoring frequency for the site was previously modified to semi-annual and annual monitoring as proposed in a document entitled, "*Request for Modifying the Quarterly Groundwater Monitoring Program*," dated February 20, 2009, and approved by Alameda County Environmental Health (ACEH) in correspondence dated April 24, 2009. Therefore, no changes to the existing groundwater monitoring schedules are required for this site. Please continue semiannual groundwater monitoring and reporting in accordance with the established schedule.

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

APPENDIX H

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Laboratory Results

Jim Ho
Innovative Environmental Remediation, Inc.
1022 Wiget Lane
Walnut Creek, CA 94598

Subject : 9 Water Samples
Project Name : Eagle Gas
Project Number :

Dear Dr. Ho,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Subject : 9 Water Samples
Project Name : Eagle Gas
Project Number :

Case Narrative

Tert-Butanol results for sample MW-10 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

Matrix Spike/Matrix Spike Duplicate results associated with samples MW-4, MW-7, and IS-5 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-4** Matrix : Water Lab Number : 71532-01
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**510**	90	ug/L	EPA 8260B	01/11/2010
Toluene	**< 90**	90	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**330**	90	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**1100**	90	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**34000**	90	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**< 90**	90	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 90**	90	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**180**	90	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**290000**	500	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**< 9000**	9000	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	98.5		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**3200**	50	ug/L	M EPA 8015	01/11/2010
Octacosane (Diesel Surrogate)	86.2		% Recovery	M EPA 8015	01/11/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-7** Matrix : Water Lab Number : 71532-02
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Toluene	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**3600**	400	ug/L	EPA 8260B	01/09/2010
Diisopropyl ether (DIPE)	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 4.0**	4.0	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**7.8**	4.0	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**9000**	20	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**< 400**	400	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	97.5		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**230**	50	ug/L	M EPA 8015	01/13/2010
Octacosane (Diesel Surrogate)	86.6		% Recovery	M EPA 8015	01/13/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-7D** Matrix : Water Lab Number : 71532-03
Sample Date :01/08/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**350**	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	**10**	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**62**	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**420**	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**61000**	150	ug/L	EPA 8260B	01/12/2010
Diisopropyl ether (DIPE)	**0.71**	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**9.2**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**360**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**200000**	700	ug/L	EPA 8260B	01/12/2010
TPH as Gasoline	**4900**	50	ug/L	EPA 8260B	01/11/2010
(Note: Gasoline, but an unusually large proportion of alkyl benzenes.)					
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**< 1500**	1500	ug/L	M EPA 8015	01/11/2010
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Diesel Surrogate)	86.8		% Recovery	M EPA 8015	01/11/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-9** Matrix : Water Lab Number : 71532-04
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.52**	0.50	ug/L	EPA 8260B	01/12/2010
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Methyl-t-butyl ether (MTBE)	**53**	0.50	ug/L	EPA 8260B	01/12/2010
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	01/12/2010
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	01/12/2010
TPH as Gasoline	**120**	50	ug/L	EPA 8260B	01/12/2010
(Note: Gasoline, but an unusually large proportion of aliphatics.)					
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	01/12/2010
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	01/12/2010
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	01/12/2010
Octacosane (Diesel Surrogate)	92.3		% Recovery	M EPA 8015	01/12/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-9D** Matrix : Water Lab Number : 71532-05
Sample Date :01/08/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**110**	50	ug/L	EPA 8260B	01/11/2010
(Note: Primarily due to Cis-1,2-Dichloroethene and Trichloroethene.)					
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	01/12/2010
Octacosane (Diesel Surrogate)	88.5		% Recovery	M EPA 8015	01/12/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-10** Matrix : Water Lab Number : 71532-06
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**270**	0.90	ug/L	EPA 8260B	01/11/2010
Toluene	**21**	0.90	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**94**	0.90	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**110**	0.90	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**440**	0.90	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**3.0**	0.90	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 0.90**	0.90	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**< 0.90**	0.90	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**10 J**	5.0	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**5400**	90	ug/L	EPA 8260B	01/11/2010
(Note: Gasoline, but an unusually large proportion of aliphatics.)					
1,2-Dichloroethane-d4 (Surr)	91.0		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**< 500**	500	ug/L	M EPA 8015	01/11/2010
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Diesel Surrogate)	85.4		% Recovery	M EPA 8015	01/11/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-10D** Matrix : Water Lab Number : 71532-07
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**180**	50	ug/L	EPA 8260B	01/11/2010
(Note: Primarily due to Trichloroethene and 1,1 Dichloroethene.)					
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	01/12/2010
Octacosane (Diesel Surrogate)	99.8		% Recovery	M EPA 8015	01/12/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **MW-11D** Matrix : Water Lab Number : 71532-08
Sample Date :01/08/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**120**	50	ug/L	M EPA 8015	01/11/2010
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
Octacosane (Diesel Surrogate)	88.7		% Recovery	M EPA 8015	01/11/2010

KIFF Analytical LLC

Report Number : 71532
Date : 01/15/2010

Project Name : **Eagle Gas**
Project Number :

Sample : **IS-5** Matrix : Water Lab Number : 71532-09
Sample Date :01/07/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2200**	70	ug/L	EPA 8260B	01/11/2010
Toluene	**< 70**	70	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	**3200**	70	ug/L	EPA 8260B	01/11/2010
Total Xylenes	**3100**	70	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	**8000**	70	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	**< 70**	70	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	**< 70**	70	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	**210**	70	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	**140000**	400	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	**29000**	7000	ug/L	EPA 8260B	01/11/2010
(Note: Gasoline, but an unusually large proportion of alkyl benzenes.)					
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	01/11/2010
TPH as Diesel	**< 4000**	4000	ug/L	M EPA 8015	01/11/2010
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Diesel Surrogate)	89.2		% Recovery	M EPA 8015	01/11/2010

Report Number : 71532

Date : 01/15/2010

QC Report : Method Blank Data

Project Name : **Eagle Gas**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	01/11/2010
Octacosane (Diesel Surrogate)	96.5		%	M EPA 8015	01/11/2010
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/08/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	98.3		%	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	99.1		%	EPA 8260B	01/11/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	98.6		%	EPA 8260B	01/11/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	98.3		%	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	104		%	EPA 8260B	01/11/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/12/2010
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/12/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/12/2010
1,2-Dichloroethane-d4 (Surr)	98.9		%	EPA 8260B	01/12/2010
Toluene - d8 (Surr)	105		%	EPA 8260B	01/12/2010

Report Number : 71532

QC Report : Method Blank Data

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/11/2010
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/11/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/11/2010
1,2-Dichloroethane-d4 (Surr)	98.4		%	EPA 8260B	01/11/2010
Toluene - d8 (Surr)	99.8		%	EPA 8260B	01/11/2010

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 71532

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel														
	BLANK	<50	1000	1000	1020	1040	ug/L	M EPA 8015	1/11/10	102	104	2.34	70-130	25
Methyl-t-butyl ether														
	71509-01	110	40.3	40.2	149	147	ug/L	EPA 8260B	1/8/10	86.3	79.7	7.94	69.7-121	25
Benzene														
	71529-02	230	40.5	40.5	251	247	ug/L	EPA 8260B	1/11/10	53.4	43.7	19.9	80-120	25
Diisopropyl ether														
	71529-02	<0.50	39.8	39.8	35.8	34.9	ug/L	EPA 8260B	1/11/10	90.0	87.7	2.62	80-120	25
Ethyl-tert-butyl ether														
	71529-02	<0.50	40.2	40.2	35.7	35.0	ug/L	EPA 8260B	1/11/10	88.7	87.0	1.99	76.5-120	25
Ethylbenzene														
	71529-02	14	40.2	40.2	52.1	51.4	ug/L	EPA 8260B	1/11/10	95.0	93.2	1.93	80-120	25
Methyl-t-butyl ether														
	71529-02	<0.50	40.6	40.6	35.2	35.5	ug/L	EPA 8260B	1/11/10	86.8	87.6	0.945	69.7-121	25
O-Xylene														
	71529-02	1.4	40.3	40.3	40.7	40.6	ug/L	EPA 8260B	1/11/10	97.4	97.3	0.147	79.7-120	25
P + M Xylene														
	71529-02	0.89	39.2	39.2	39.4	38.8	ug/L	EPA 8260B	1/11/10	98.4	96.7	1.68	76.8-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol														
	71529-02	88	201	201	296	285	ug/L	EPA 8260B	1/11/10	103	97.6	5.70	80-120	25
Tert-amyl-methyl ether														
	71529-02	<0.50	40.2	40.2	34.5	34.4	ug/L	EPA 8260B	1/11/10	85.8	85.6	0.256	78.9-120	25
Toluene														
	71529-02	7.5	40.2	40.2	44.3	43.1	ug/L	EPA 8260B	1/11/10	91.4	88.5	3.22	80-120	25
Benzene														
	71527-01	<0.50	40.6	40.6	39.6	39.2	ug/L	EPA 8260B	1/11/10	97.7	96.6	1.12	80-120	25
Diisopropyl ether														
	71527-01	<0.50	39.9	39.9	39.6	40.0	ug/L	EPA 8260B	1/11/10	99.4	100	0.895	80-120	25
Ethyl-tert-butyl ether														
	71527-01	<0.50	40.3	40.3	41.1	40.6	ug/L	EPA 8260B	1/11/10	102	101	1.16	76.5-120	25
Ethylbenzene														
	71527-01	<0.50	40.3	40.3	41.3	41.6	ug/L	EPA 8260B	1/11/10	102	103	0.760	80-120	25
Methyl-t-butyl ether														
	71527-01	12	40.6	40.6	52.0	51.8	ug/L	EPA 8260B	1/11/10	99.6	99.1	0.498	69.7-121	25
P + M Xylene														
	71527-01	<0.50	39.2	39.2	40.9	41.7	ug/L	EPA 8260B	1/11/10	104	106	2.06	76.8-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-amyl-methyl ether														
	71527-01	<0.50	40.3	40.3	40.0	39.9	ug/L	EPA 8260B	1/11/10	99.4	99.1	0.306	78.9-120	25
Toluene														
	71527-01	<0.50	40.3	40.3	40.5	40.6	ug/L	EPA 8260B	1/11/10	100	101	0.339	80-120	25
Benzene														
	71527-02	<0.50	40.6	40.6	39.6	39.2	ug/L	EPA 8260B	1/11/10	97.7	96.6	1.14	80-120	25
Diisopropyl ether														
	71527-02	<0.50	39.9	39.9	40.1	40.2	ug/L	EPA 8260B	1/11/10	100	101	0.317	80-120	25
Ethyl-tert-butyl ether														
	71527-02	<0.50	40.3	40.3	39.0	38.8	ug/L	EPA 8260B	1/11/10	96.7	96.3	0.423	76.5-120	25
Ethylbenzene														
	71527-02	<0.50	40.3	40.3	41.8	41.5	ug/L	EPA 8260B	1/11/10	104	103	0.679	80-120	25
Methyl-t-butyl ether														
	71527-02	0.52	40.6	40.6	37.5	37.6	ug/L	EPA 8260B	1/11/10	91.0	91.3	0.327	69.7-121	25
O-Xylene														
	71527-02	<0.50	40.4	40.4	41.4	41.5	ug/L	EPA 8260B	1/11/10	102	103	0.286	79.7-120	25
P + M Xylene														
	71527-02	<0.50	39.2	39.2	40.3	40.1	ug/L	EPA 8260B	1/11/10	103	102	0.439	76.8-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol														
	71527-02	<5.0	202	202	198	196	ug/L	EPA 8260B	1/11/10	98.3	97.2	1.12	80-120	25
Tert-amyl-methyl ether														
	71527-02	<0.50	40.3	40.3	38.9	38.6	ug/L	EPA 8260B	1/11/10	96.6	95.7	0.865	78.9-120	25
Toluene														
	71527-02	<0.50	40.3	40.3	43.0	42.2	ug/L	EPA 8260B	1/11/10	107	105	1.92	80-120	25
Benzene														
	71521-01	4.4	40.6	40.6	43.6	43.6	ug/L	EPA 8260B	1/12/10	96.6	96.6	0.0253	80-120	25
Diisopropyl ether														
	71521-01	1.4	39.9	39.9	40.9	40.2	ug/L	EPA 8260B	1/12/10	98.8	97.2	1.64	80-120	25
Ethyl-tert-butyl ether														
	71521-01	<0.50	40.3	40.3	39.8	38.0	ug/L	EPA 8260B	1/12/10	98.9	94.2	4.82	76.5-120	25
Ethylbenzene														
	71521-01	0.62	40.3	40.3	41.0	40.0	ug/L	EPA 8260B	1/12/10	100	97.7	2.62	80-120	25
Methyl-t-butyl ether														
	71521-01	32	40.6	40.6	71.7	69.1	ug/L	EPA 8260B	1/12/10	98.2	91.6	6.90	69.7-121	25
O-Xylene														
	71521-01	<0.50	40.4	40.4	40.8	40.4	ug/L	EPA 8260B	1/12/10	101	100	1.04	79.7-120	25

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2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
P + M Xylene														
	71521-01	<0.50	39.2	39.2	38.8	38.4	ug/L	EPA 8260B	1/12/10	99.0	97.9	1.16	76.8-120	25
Tert-Butanol														
	71521-01	39	202	202	227	230	ug/L	EPA 8260B	1/12/10	93.0	94.2	1.31	80-120	25
Tert-amyl-methyl ether														
	71521-01	<0.50	40.3	40.3	40.1	38.0	ug/L	EPA 8260B	1/12/10	99.6	94.3	5.39	78.9-120	25
Toluene														
	71521-01	<0.50	40.3	40.3	42.0	40.2	ug/L	EPA 8260B	1/12/10	104	99.7	4.27	80-120	25
Benzene														
	71527-03	1.6	40.6	40.6	39.9	39.3	ug/L	EPA 8260B	1/11/10	94.5	93.1	1.54	80-120	25
Diisopropyl ether														
	71527-03	<0.50	39.9	39.9	40.0	39.9	ug/L	EPA 8260B	1/11/10	100	100	0.320	80-120	25
Ethyl-tert-butyl ether														
	71527-03	<0.50	40.3	40.3	40.7	40.4	ug/L	EPA 8260B	1/11/10	101	100	0.844	76.5-120	25
Ethylbenzene														
	71527-03	2.0	40.3	40.3	40.8	40.4	ug/L	EPA 8260B	1/11/10	96.2	95.3	0.941	80-120	25
Methyl-t-butyl ether														
	71527-03	43	40.6	40.6	86.9	86.3	ug/L	EPA 8260B	1/11/10	107	105	1.55	69.7-121	25

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2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
O-Xylene														
	71527-03	<0.50	40.4	40.4	40.0	39.8	ug/L	EPA 8260B	1/11/10	99.0	98.4	0.655	79.7-120	25
P + M Xylene														
	71527-03	<0.50	39.2	39.2	41.2	41.0	ug/L	EPA 8260B	1/11/10	105	104	0.418	76.8-120	25
Tert-Butanol														
	71527-03	31	202	202	236	236	ug/L	EPA 8260B	1/11/10	102	102	0.173	80-120	25
Tert-amyl-methyl ether														
	71527-03	<0.50	40.3	40.3	38.6	38.5	ug/L	EPA 8260B	1/11/10	96.0	95.5	0.505	78.9-120	25
Toluene														
	71527-03	<0.50	40.3	40.3	39.1	38.6	ug/L	EPA 8260B	1/11/10	97.0	95.8	1.27	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Date : 01/15/2010

Project Name : **Eagle Gas**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	1/8/10	90.4	69.7-121
Benzene	40.6	ug/L	EPA 8260B	1/11/10	91.0	80-120
Diisopropyl ether	39.9	ug/L	EPA 8260B	1/11/10	92.2	80-120
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	1/11/10	92.2	76.5-120
Ethylbenzene	40.3	ug/L	EPA 8260B	1/11/10	95.2	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	1/11/10	90.4	69.7-121
O-Xylene	40.4	ug/L	EPA 8260B	1/11/10	95.4	79.7-120
P + M Xylene	39.2	ug/L	EPA 8260B	1/11/10	97.2	76.8-120
Tert-Butanol	202	ug/L	EPA 8260B	1/11/10	96.1	80-120
Tert-amyl-methyl ether	40.3	ug/L	EPA 8260B	1/11/10	86.2	78.9-120
Toluene	40.3	ug/L	EPA 8260B	1/11/10	94.0	80-120
Benzene	39.9	ug/L	EPA 8260B	1/11/10	104	80-120
Diisopropyl ether	39.8	ug/L	EPA 8260B	1/11/10	106	80-120
Ethyl-tert-butyl ether	40.2	ug/L	EPA 8260B	1/11/10	108	76.5-120
Ethylbenzene	39.9	ug/L	EPA 8260B	1/11/10	106	80-120
P + M Xylene	39.9	ug/L	EPA 8260B	1/11/10	106	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	1/11/10	108	80-120
Tert-amyl-methyl ether	40.2	ug/L	EPA 8260B	1/11/10	106	78.9-120
Toluene	39.9	ug/L	EPA 8260B	1/11/10	105	80-120

QC Report : Laboratory Control Sample (LCS)

Project Name : **Eagle Gas**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.2	ug/L	EPA 8260B	1/11/10	101	80-120
Diisopropyl ether	40.1	ug/L	EPA 8260B	1/11/10	103	80-120
Ethyl-tert-butyl ether	40.5	ug/L	EPA 8260B	1/11/10	98.0	76.5-120
Ethylbenzene	40.2	ug/L	EPA 8260B	1/11/10	104	80-120
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	1/11/10	94.4	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	1/11/10	99.7	76.8-120
TPH as Gasoline	512	ug/L	EPA 8260B	1/11/10	104	80-120
Tert-Butanol	203	ug/L	EPA 8260B	1/11/10	97.8	80-120
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	1/11/10	102	78.9-120
Toluene	40.2	ug/L	EPA 8260B	1/11/10	107	80-120
Benzene	39.7	ug/L	EPA 8260B	1/12/10	99.2	80-120
Diisopropyl ether	39.6	ug/L	EPA 8260B	1/12/10	99.6	80-120
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	1/12/10	94.6	76.5-120
Ethylbenzene	39.7	ug/L	EPA 8260B	1/12/10	102	80-120
Methyl-t-butyl ether	40.4	ug/L	EPA 8260B	1/12/10	90.4	69.7-121
P + M Xylene	39.7	ug/L	EPA 8260B	1/12/10	97.1	76.8-120
TPH as Gasoline	512	ug/L	EPA 8260B	1/12/10	106	80-120
Tert-Butanol	200	ug/L	EPA 8260B	1/12/10	96.8	80-120
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	1/12/10	97.1	78.9-120
Toluene	39.7	ug/L	EPA 8260B	1/12/10	104	80-120
Benzene	40.1	ug/L	EPA 8260B	1/11/10	98.5	80-120

QC Report : Laboratory Control Sample (LCS)

Project Name : **Eagle Gas**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Diisopropyl ether	40.0	ug/L	EPA 8260B	1/11/10	104	80-120
Ethyl-tert-butyl ether	40.4	ug/L	EPA 8260B	1/11/10	105	76.5-120
Ethylbenzene	40.1	ug/L	EPA 8260B	1/11/10	98.5	80-120
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	1/11/10	100	69.7-121
P + M Xylene	40.1	ug/L	EPA 8260B	1/11/10	104	76.8-120
TPH as Gasoline	512	ug/L	EPA 8260B	1/11/10	105	80-120
Tert-Butanol	202	ug/L	EPA 8260B	1/11/10	102	80-120
Tert-amyl-methyl ether	40.4	ug/L	EPA 8260B	1/11/10	102	78.9-120
Toluene	40.1	ug/L	EPA 8260B	1/11/10	99.1	80-120

KIFF ANALYTICAL, LLC
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SRG # / Lab No. 71532

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Dr. Jim Ho	California EDF Report? ☑ Yes ☐ No
Company / Address: Innovative Environmental Remediation 1022 Wiget Lane, Walnut Creek, CA 94598	Sampling Company Log Code: pending
Phone #: (925) 943-6445 / Fax #:	Global ID: T0600143649
Project #: / P.O. #:	PDF/EDF Deliverable To (Email Address): Jimho.IER@gmail.com
Project Name: Eagle Gas	Sampler Signature:
Project Address: 4301 San Leandro Street, Oakland, CA	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: TPH as Gas (EPA 8260B)	Analysis Request: BTEX (EPA 8260B)	Analysis Request: 5 Oxygenates (MTBE, ETBE, DIPE, TAME, TBA) by EPA 8260B	Analysis Request: HOLD	TAT	For Lab Use Only
~~MW-1~~			3					X			X			X	X	X		1 wk	
~~MW-1D~~			3					X			X			X	X	X		1 wk	
~~MW-2~~			3					X			X			X	X	X		1 wk	
~~MW-3~~			3					X			X			X	X	X		1 wk	
MW-4	1-7-10	17:30	6					X			X			X	X	X		1 wk	01
~~MW-4D~~			3					X			X			X	X	X		1 wk	
~~MW-5~~			3					X			X			X	X	X		1 wk	
~~MW-5D~~			3					X			X			X	X	X		1 wk	
~~MW-6~~			3					X			X			X	X	X		1 wk	
MW-7	1-7-10	18:15	6					X			X			X	X	X		1 wk	02

Relinquished by:	Date	Time	Received by:
Bernardo Chavez	1-8-10	14:16	

Remarks: TPH-diesel / EPA-8015

Bill to:

Relinquished by:	Date	Time	Received by Laboratory:
	010810	1416	Kiff Analytical

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

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MW-7D	1-8-10	8:55	6	BC				X			X			X	X	X		1 wk	03
~~MW-8~~			~~3~~					X			X			X	X	X		1 wk	
MW-9	1-7-10	19:07	6	BC				X			X			X	X	X		1 wk	04
MW-9D	1-8-10	10:30	6	BC				X			X			X	X	X		1 wk	05
MW-10	1-7-10	14:40	6	BC				X			X			X	X	X		1 wk	06
MW-10D	1-7-10	13:90	6	BC				X			X			X	X	X		1 wk	07
MW-11 D	1-8-10	9:45	6	BC				X			X			X	X	X		1 wk	08
~~IS-1~~			3					X			X			X	X	X		1 wk	
~~IS-2~~			3					X			X			X	X	X		1 wk	
~~IS-3~~			3					X			X			X	X	X		1 wk	

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~~IS-4~~			3						X					X				X	X	X		1 wk	
IS-5	1-7-10	19:45	6						X					X				X	X	X		1 wk	09
~~IS-6~~			3						X					X				X	X	X		1 wk	
~~EW-1~~			3						X					X				X	X	X		1 wk	
~~EW-2~~			3						X					X				X	X	X		1 wk	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☑ 1 wk

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